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LABOR AND INDUSTRIES, DEPARTMENT OF

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Chapter 296-10
PRACTICE AND PROCEDURE—INDUSTRIAL WELFARE COMMITTEE

296-10-010 Appearance and practice before agency—Who may appear. [Rule .08.010, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-020 Appearance and practice before agency—Appearance in certain proceedings may be limited to attorneys. [Rule .08.020, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-030 Appearance and practice before agency—Solicitation of business unethical. [Rule .08.030, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-040 Appearance and practice before agency—Standards of ethical conduct. [Rule .08.040, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-050 Appearance and practice before agency—Appearance of former employee of board or former member of attorney general's staff. [Rule .08.050, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-060 Appearance and practice before agency—Former employee as expert witness. [Rule .08.060, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-070 Computation of time. [Rule .08.070, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-080 Notice and opportunity for hearing in contested cases. [Rule .08.080, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-090 Notice and opportunity for hearing in contested cases—By whom served. [Rule .08.090, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-100 Notice and opportunity for hearing in contested cases—Upon whom served. [Rule .08.100, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-110 Notice and opportunity for hearing in contested cases—Service upon parties. [Rule .08.110, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-120 Notice and opportunity for hearing in contested cases—Method of service. [Rule .08.120, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-130 Notice and opportunity for hearing in contested cases—When service complete. [Rule .08.130, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-140 Notice and opportunity for hearing in contested cases—Filing with agency. [Rule .08.140, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-150 Subpoenas—Where provided by law—Form. [Rule .08.150, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-160 Subpoenas—Issuance to parties. [Rule .08.160, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-170 Subpoenas—Service. [Rule .08.170, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-180 Subpoenas—Fees. [Rule .08.180, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-190 Subpoenas—Proof of service. [Rule .08.190, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-200 Subpoenas—Quashing. [Rule .08.200, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-210 Subpoenas—Enforcement. [Rule .08.210, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-220 Subpoenas—Geographical scope. [Rule .08.220, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-370 Official notice—Matters of law. [Rule .08.370, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-380 Official notice—Material facts. [Rule .08.380, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-390 Presumptions. [Rule .08.390, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-400 Stipulations and admissions of record. [Rule .08.400, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-410 Form and content of decisions in contested cases. [Rule .08.410, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-420 Definition of issues before hearing. [Rule .08.420, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-430 Prehearing conference rule—Authorized. [Rule .08.430, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-440 Prehearing conference rule—Record of conference action. [Rule .08.440, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-450 Submission of documentary evidence in advance. [Rule .08.450, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-460 Excerpts from documentary evidence. [Rule .08.460, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-470 Expert or opinion testimony and testimony based on economic or statistical data—Number and qualifications of witnesses. [Rule .08.470, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-480 Expert or opinion testimony and testimony based on economic or statistical data—Written sworn statements. [Rule .08.480, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-490 Expert or opinion testimony and testimony based on economic or statistical data—Supporting data. [Rule .08.490, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-500 Expert or opinion testimony and testimony based on economic or statistical data—Effect of noncompliance with WAC 296-10-470 or 296-10-480. [Rule .08.500,

effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-510 Continuances. [Rule .08.510, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-520 Rules of evidence—Admissibility criteria. [Rule .08.520, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-530 Rules of evidence—Tentative admission—Exclusion—Discontinuance—Objections. [Rule .08.530, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-540 Petitions for rule making, amendment or repeal—Who may petition. [Rule .08.540, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-550 Petitions for rule making, amendment or repeal—Requisites. [Rule .08.550, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-560 Petitions for rule making, amendment or repeal—Agency must consider. [Rule .08.560, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-570 Petitions for rule making, amendment or repeal—Notice of disposition. [Rule .08.570, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-580 Declaratory rulings. [Rule .08.580, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-10-590 Forms. [Rule .08.590, effective 3/18/60, filed 3/23/60.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

Chapter 296-11
PRACTICE AND PROCEDURE—BOARD OF PILOTAGE COMMISSIONERS

296-11-001 General rule and information. [Statutory Authority: RCW 88.16.035. 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-11-001, filed 3/4/80. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-11-001, filed 8/23/78; Order 2-68, § 296-11-001, filed 11/1/68.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-001.

296-11-002 Effective date and validity. [Order 2-68, § 296-11-002, filed 11/1/68; Rule .08.591, effective 3/1/60, filed 3/23/60.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-11-003 Index to documents. [Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-11-003, filed 8/23/78.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-003.

296-11-010 Appearance and practice before agency—Who may appear. [Rule .08.010, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-010.

296-11-020 Appearance and practice before agency—Appearance in certain proceedings may be limited to attorneys. [Rule .08.020, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-020.

296-11-030 Appearance and practice before agency—Solicitation of business unethical. [Rule .08.030, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-030.

296-11-040 Appearance and practice before agency—Standards of ethical conduct. [Rule .08.040, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-040.

296-11-050 Appearance and practice before agency—Appearance by former employee of board or member of attorney general's staff. [Rule .08.050, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-050.

296-11-060 Appearance and practice before agency—Former employee as expert witness. [Rule .08.060, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-060.

296-11-070 Computation of time. [Rule .08.070, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-070.

296-11-080 Notice and opportunity for hearing in contested cases. [Order 2-68, § 296-11-080, filed 11/1/68; Rule .08.080, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-080.

296-11-090 Service of process—By whom served. [Rule .08.090, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-090.

296-11-100 Service of process—Upon whom served. [Rule .08.100, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-100.

296-11-110 Service of process—Service upon parties. [Rule .08.110, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-110.

296-11-120 Service of process—Method of service. [Rule .08.120, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-120.

296-11-130 Service of process—When service complete. [Rule .08.130, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-130.

296-11-140 Service of process—Filing with agency. [Rule .08.140, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-140.

296-11-150 Subpoenas—Where provided by law—Form. [Rule .08.150, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-150.

296-11-160 Subpoenas—Issuance to parties. [Rule .08.160, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-160.

296-11-170 Subpoenas—Service. [Rule .08.170, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-170.

296-11-180 Subpoenas—Fees. [Rule .08.180, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-180.

296-11-190 Subpoenas—Proof of service. [Rule .08.190, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-190.

296-11-200 Subpoenas—Quashing. [Rule .08.200, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-200.

296-11-210 Subpoenas—Enforcement. [Rule .08.210, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-210.

296-11-220 Subpoenas—Geographical scope. [Rule .08.220, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-220.

296-11-230 Depositions and interrogatories in contested cases—Right to take. [Rule .08.230, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-230.

296-11-240 Depositions and interrogatories in contested cases—Scope. [Rule .08.240, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-240.

296-11-250 Depositions and interrogatories in contested cases—Officer before whom taken. [Rule .08.250, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-250.

296-11-260 Depositions and interrogatories in contested cases—Authorization. [Rule .08.260, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-260.

296-11-270 Depositions and interrogatories in contested cases—Protection of parties and deponents. [Rule .08.270, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-270.

296-11-280 Depositions and interrogatories in contested cases—Oral examination and cross-examination. [Rule .08.280, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-

042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-280.

296-11-290 Depositions and interrogatories in contested cases—Recordation. [Rule .08.290, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-290.

296-11-300 Depositions and interrogatories in contested cases—Signing attestation and return. [Rule .08.300, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-300.

296-11-310 Depositions and interrogatories in contested cases—Use and effect. [Rule .08.310, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-310.

296-11-320 Depositions and interrogatories in contested cases—Fees of officers and deponents. [Rule .08.320, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-320.

296-11-330 Depositions upon interrogatories—Submission of interrogatories. [Rule .08.330, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-330.

296-11-340 Depositions upon interrogatories—Interrogation. [Rule .08.340, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-340.

296-11-350 Depositions upon interrogatories—Attestation and return. [Rule .08.350, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-350.

296-11-360 Depositions upon interrogatories—Provisions of deposition rule. [Rule .08.360, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-360.

296-11-370 Official notice—Matters of law. [Rule .08.370, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-370.

296-11-380 Official notice—Material facts. [Rule .08.380, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-380.

296-11-390 Presumptions. [Rule .08.390, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-390.

296-11-400 Stipulations and admissions of record. [Rule .08.400, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-400.

296-11-410 Form and content of decisions in contested cases. [Rule .08.410, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-410.

296-11-420 Definition of issues before hearing. [Rule .08.420, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-420.

296-11-430 Prehearing conference rule—Authorized. [Rule .08.430, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-430.

296-11-440 Prehearing conference rule—Record of conference action. [Rule .08.440, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-440.

296-11-450 Submission of documentary evidence in advance. [Rule .08.450, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-450.

296-11-460 Excerpts from documentary evidence. [Rule .08.460, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-460.

296-11-470 Expert or opinion testimony and testimony based on economic or statistical data—Number and qualifications of witnesses. [Rule .08.470, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-470.

296-11-480 Expert or opinion testimony and testimony based on economic or statistical data—Written sworn statements. [Rule .08.480, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-480.

296-11-490 Expert or opinion testimony and testimony based on economic or statistical data—Supporting data. [Rule .08.490, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-490.

296-11-500 Expert or opinion testimony and testimony based on economic or statistical data—Effect of noncompliance with WAC 296-11-470 or 296-11-480. [Rule .08.500, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-500.

296-11-510 Continuances. [Rule .08.510, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-510.

296-11-520 Rules of evidence—Admissibility criteria. [Rule .08.520, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-520.

296-11-530 Rules of evidence—Tentative admission—Exclusion—Discontinuance—Objections. [Rule .08.530, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-530.

296-11-540 Petitions for rule making, amendment or repeal—Who may petition. [Rule .08.540, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-540.

296-11-550 Petitions for rule making, amendment or repeal—Requisites. [Rule .08.550, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-550.

296-11-560 Petitions for rule making, amendment or repeal—Agency must consider. [Rule .08.560, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-560.

296-11-570 Petitions for rule making, amendment or repeal—Notice of disposition. [Rule .08.570, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-570.

296-11-580 Declaratory rulings. [Rule .08.580, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-580.

296-11-590 Forms. [Rule .08.590, effective 3/1/60, filed 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-11-590.

Chapter 296-12
PRACTICE AND PROCEDURE—BOARD OF INDUSTRIAL INSURANCE APPEALS

[Rules filed 10/29/69, 10/29/65, 6/12/63, 3/23/60.] Now codified in Title 263 WAC.

Chapter 296-18
INDUSTRIAL INSURANCE AND MEDICAL AID CLASSIFICATION MANUAL

Reviser's note: The classification of occupations was enacted by the legislature as section 1, chapter 247, Laws of 1947. They were revised by the director from time to time under the authority of RCW 51.12.030, 51.12.040, and 51.16.100. As so revised, they were reenacted by the legislature as chapter 51.20 RCW, which was part of chapter 23, Laws of 1961, which reenacted the entire industrial insurance law as Title 51 RCW. The classification as originally published in the WAC conforms to the 1961 statute. The effective date of chapter 23, Laws of 1961 was February 14, 1961.

Chapter 51.20 RCW and its parallels in chapter 231, Laws of 1961, have subsequently been repealed by section 39, chapter 93, Laws of 1972 ex. sess.

296-18-010, 296-18-020, 296-18-050, 296-18-060, 296-18-070, 296-18-080, 296-18-090, 296-18-100, 296-18-110, 296-18-130, 296-18-140, 296-18-150, 296-18-160, 296-18-170, 296-18-180, 296-18-210, 296-18-220, 296-18-240, 296-18-290, 296-18-310, 296-18-330, 296-18-350, 296-18-370, 296-18-380, 296-18-390, 296-18-400, 296-18-410, 296-18-420, 296-18-430, 296-18-440, 296-18-450, 296-18-460, 296-18-470, 296-18-480, 296-18-490, 296-18-500, 296-18-610, 296-18-620, 296-18-630, 296-18-640, 296-18-650, 296-18-660. [Order 71-14, §§ 296-18-010 through 296-18-660, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74. See chapter 296-17 WAC.

296-18-340 [Order 70-11, § 296-18-340, filed 11/30/70.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-18-600 [See reviser's note for history.] Repealed by Order 71-14, filed 12/1/71, effective 1/1/72.

296-18-670 [Order 72-12, § 296-18-670, filed 7/18/72; Order 71-14, § 296-18-670, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74. See chapter 296-17 WAC.

296-18-680 [Order 72-12, § 296-18-680, filed 7/18/72; Order 71-14, § 296-18-680, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74. See chapter 296-17 WAC.

296-18-690 [Order 71-14, § 296-18-690, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74. See chapter 296-17 WAC.

Reviser's note: Many of the above section numbers were reused by the department when it adopted rules on rehabilitation review, a new subject matter, by Order 82-40, filed 11/30/82. This order and subsequent orders have been codified as chapter 296-18A WAC.

Chapter 296-19
CLASSIFICATION OF STATE EMPLOYEES

296-19-010 General order. [Rule, filed 4/10/62; Rules, filed 12/2/60 and 3/6/61.] Repealed by 84-06-018 (Order 84-3), filed 2/29/84. Statutory Authority: RCW 51.04.020(1).

Chapter 296-21A
MEDICAL FEES

296-21A-010 General information and instructions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-010, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-011 Footnotes. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-011, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-013 Special services and reports. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-013, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-014 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-014, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-01401 Special report. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-01401, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-035 Independent medical examinations. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-035, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-037 Examination reports. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-037, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-040 Independent medical examinations examiner. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-040, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-045 Independent medical examinations two or more examiners. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-045, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-046 Immunization injections. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-046, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-047 Therapeutic or diagnostic injections. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-047, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-050 Psychiatric services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-050, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-0501 Biofeedback rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-0501, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-0502 Biofeedback. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-0502, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-057 Monitoring services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-057, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-062 Eye. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-062, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-064 Ear. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-064, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-066 Cardiovascular. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-066, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-070 Pulmonary. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-070, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-075 Allergy and clinical immunology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-075, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-080 Neurology and neuromuscular. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-080, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-086 Chemotherapy administration. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-086, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-090 Special dermatological procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-090, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-095 Physical medicine. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-095, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-125 Anesthesia. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-125, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-128 Special services and billing procedures—Anesthesia. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-128, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21A-130 Calculation of total anesthesia values. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21A-130, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

Chapter 296-22
SURGICAL FEES

296-22-010 General information and instructions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-010, filed 12/1/92, effective 1/1/93; 91-17-038, § 296-22-010, filed 8/16/91, effective 9/16/91; 89-17-039 (Order 89-09), § 296-22-010, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-22-010, filed 1/8/87; 86-20-074 (Order 86-36), § 296-22-010, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-22-010, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-010, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-010, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-010, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-010, filed 1/30/74; Order 70-12, § 296-22-010, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-22-010, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-015, 296-22-045, 296-22-046, 296-22-047, 296-22-048, 296-22-049, 296-22-050, 296-22-055, 296-22-056, 296-22-057, 296-22-058, 296-22-059, 296-22-060, 296-22-065, 296-22-070, 296-22-075, 296-22-076, 296-22-077, 296-22-078, 296-22-085, 296-22-086, 296-22-090, 296-22-101, 296-22-102, 296-22-117, 296-22-121, 296-22-126, 296-22-127, 296-22-128, 296-22-256, 296-22-320, 296-22-335, 296-22-366, 296-22-376, 296-22-380, and 296-22-400. [Order 68-7, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-22-016 Footnotes. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-016, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-016, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-017 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-22-017, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-017, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-017, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-017, filed 12/3/80, effective 3/1/81; Order 76-34, § 296-22-017, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-01701 Special report. [Order 76-34, § 296-22-01701, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-020 Skin, subcutaneous and areolar tissues. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-020, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-020, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-020, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-020, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-020, filed 1/30/74; Order 68-7, § 296-22-020, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-021 Excision—Debridement. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-021, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-021, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-021, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-021, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-021, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-021, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-021, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-021, filed 1/30/74; Order 68-7, § 296-22-021, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-022 Introduction. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-022, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-022, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-022, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-022, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-022, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-022, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-022, filed 1/30/74; Order 68-7, § 296-22-022, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-023 Repair. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-023, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-023, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-023, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-023, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-023, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-023, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-023, filed 1/30/74; Order 68-7, § 296-22-023, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-024 Repair—Complex. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-024, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-024, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-024, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-024, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-024, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-024, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-024, filed 1/30/74; Order 68-7, § 296-22-024, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-025 Free skin grafts. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-025, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-025, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-025, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-025, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-025, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-025, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-025, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-025, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-025, filed 1/30/74; Order 68-7, § 296-22-025, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-026 Burns, local treatment. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-026, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-026, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-026, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-026, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-026, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-026, filed 1/30/74; Order 68-7, § 296-22-026, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-027 Destruction. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-027, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-027, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-027, filed 8/10/89, effective 9/10/89; 86-06-032 (Order

86-19), § 296-22-027, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-027, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-027, filed 1/30/74; Order 68-7, § 296-22-027, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-030 Breast. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-030, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-030, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-030, filed 8/10/89, effective 9/10/89; 83-16-066 (Order 83-23), § 296-22-030, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-030, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-030, filed 1/30/74; Order 68-7, § 296-22-030, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-031 Breast. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-031, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-031, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-031, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-031, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-031, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-031, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-031, filed 1/30/74; Order 68-7, § 296-22-031, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-035 Musculoskeletal system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-035, filed 12/1/92, effective 1/1/93; 89-17-039 (Order 89-09), § 296-22-035, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-035, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-035, filed 1/30/74; Order 68-7, § 296-22-035, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-036 General. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-036, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-036, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-22-036, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-036, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-036, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-036, filed 1/30/74; Order 68-7, § 296-22-036, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-037 Excision. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-037, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-037, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-037, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-037, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-037, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-037, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-037, filed 1/30/74; Order 68-7, § 296-22-037, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-038 Introduction or removal. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-038, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-038, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-038, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-038, filed 7/23/87; 83-16-066 (Order 83-23), § 296-22-038, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-038, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-038, filed 1/30/74; Order 68-7, § 296-22-038, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-039 Reimplantation. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-039, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-039, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-22-039, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-039, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-039, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-039, filed 1/30/74; Order 68-7, § 296-22-039, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-040 Grafts (or implants). [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-040, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-040, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-040, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-040, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-040, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-040, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-040, filed 1/30/74; Order 68-7, § 296-22-040, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-042 Head. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-042, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-042, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-042, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-042, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-042, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-042, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-042, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-042, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-042, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-051 Neck (soft tissues) and thorax. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-051, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-051, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-051, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-051, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-051, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-051, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-051, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-052 Back and flank. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-052, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-052, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-052, filed 8/10/89, effective 9/10/89.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-053 Spine (vertebral column). [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-053, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-053, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-053, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-053, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-053, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-053, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-053, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-053, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-053, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-061 Abdomen. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-061, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-061, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-061, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-061, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-061, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-061, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-061, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-061, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-063 Shoulder. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-063, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-063, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-063, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-063, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-063, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-063, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-063, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-063, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-063, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-067 Humerus (upper arm) and elbow. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-067, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-067, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-067, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-067, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-067, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-067, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-067, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-067, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-067, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-071 Forearm and wrist. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-071, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-071, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-071, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-071, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-071, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-071, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-071, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-071, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-071, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-073 Hand and fingers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-073, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-073, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-073, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-073, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-073, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-073, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-073, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-073, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-073, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-079 Pelvis and hip joint. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-079, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-079, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-079, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-079, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-079, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-079, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-079, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-082 Femur (thigh region) and knee joint. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-082, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-082, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-082, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-082, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-082, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-082, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-082, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-082, filed 12/3/80, effective 3/1/81; Order 76-34, § 296-22-082, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-22-082, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-22-082, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-087 Leg (tibia and fibula) and ankle joint. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-087, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-087, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-087, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-087, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-087, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-087, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-087, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-087, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-091 Foot. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-091, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-091, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-091, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-091, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-091, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-091, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-091, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-091, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-091, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-095 Application of casts and strapping. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-095, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-095, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-095, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-095, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-095, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-095, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-097 Arthroscopy. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-097, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-097, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-097, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-097, filed 7/23/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-100 Respiratory system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-100, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-100, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-100, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-100, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-100, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW

51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-100, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-100, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-100, filed 1/30/74; Order 68-7, § 296-22-100, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-105 Accessory sinuses. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-105, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-105, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-105, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-105, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-105, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-105, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-105, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-105, filed 1/30/74; Order 68-7, § 296-22-105, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-110 Larynx. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-110, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-110, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-110, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-110, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-110, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-110, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-110, filed 1/30/74; Order 68-7, § 296-22-110, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-115 Trachea and bronchi. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-115, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-115, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-115, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-115, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-115, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-115, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-115, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-115, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-115, filed 1/30/74; Order 68-7, § 296-22-115, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-116 Lungs and pleura. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-116, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-116, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-116, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-116, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-116, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-116, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-116, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-116, filed 1/30/74; Order 68-7, § 296-22-116, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-120 Heart and pericardium. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-120, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-120, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-120, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-120, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-120, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-120, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-120, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-120, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-120, filed 1/30/74; Order 68-7, § 296-22-120, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-125 Arteries and veins. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-125, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-125, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-125, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-125, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-125, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-125, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-125, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-125, filed 1/30/74; Order 68-7, § 296-22-125, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-130 Spleen. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-130, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-130, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-130, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-130, filed 7/23/87; 83-16-066 (Order 83-23), § 296-22-130, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-130, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-130, filed 1/30/74; Order 68-7, § 296-22-130, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-132 Bone marrow transplantation services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-132, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-132, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-132, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-135 Lymph nodes and lymphatic channels. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-135, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-135, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-135, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-135, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-135, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-135, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-135, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-135, filed 1/30/74; Order 68-7, § 296-22-135, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-140 Mediastinum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-140, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-140, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-140, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-140, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-140, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-140, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-140, filed 1/30/74; Order 68-7, § 296-22-140, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-141 Diaphragm. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-141, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-141, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-141, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-141, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-141, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-141, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-141, filed 1/30/74. Formerly WAC 296-22-070 (part).] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93.

Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-145 Mouth. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-22-145, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-145, filed 2/28/86, effective 4/1/86; Order 74-7, § 296-22-145, filed 1/30/74; Order 68-7, § 296-22-145, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-146 Lips. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-146, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-146, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-146, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-146, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-146, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-146, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-146, filed 1/30/74. Formerly WAC 296-22-145 (part).] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-147 Vestibule of mouth. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-147, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-147, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-147, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-147, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-147, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-147, filed 12/3/80, effective 3/1/81.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-150 Tongue, floor of mouth. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-150, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-150, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-22-150, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-150, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-150, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-150, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-150, filed 1/30/74; Order 68-7, § 296-22-150, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-155 Teeth and gums. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-155, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-155, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-155, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-155, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-155, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-155, filed 1/30/74; Order 68-7, § 296-22-155, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-160 Palate, uvula. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-160, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-160, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-160, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-160, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-160, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-160, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-160, filed 1/30/74; Order 68-7, § 296-22-160, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-165 Salivary glands and ducts. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-165, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-165, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-22-165, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-165, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-165, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-165, filed 1/30/74; Order 68-7, § 296-22-165, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-170 Pharynx, adenoids and tonsils. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-170, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-170, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-170, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-170, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-170, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-170, filed 1/30/74; Order 68-7, § 296-22-170, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-180 Esophagus. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-180, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-180, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-180, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-180, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-180, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-180, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-180, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-180, filed 1/30/74; Order 68-7, § 296-22-180, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-190 Stomach. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-190, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-190, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-190, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-190, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-190, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-190, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-190, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-190, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-190, filed 1/30/74; Order 68-7, § 296-22-190, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-195 Intestines (except rectum). [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-195, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-195, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-195, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-195, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-195, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-195, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-195, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-195, filed 1/30/74; Order 68-7, § 296-22-195, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-200 Meckel's diverticulum and the mesentery. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-200, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-200, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-200, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-200, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-200, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-200, filed 1/30/74; Order 68-7, § 296-22-200, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-205 Appendix. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-205, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-205, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-205, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-205, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-205, filed 1/30/74; Order 68-7, § 296-22-205, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-210 Rectum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-210, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-210, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-210, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-210, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-210, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-210, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-210, filed 1/30/74; Order 68-7, § 296-22-210, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-215 Anus. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-215, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-215, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-215, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-215, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-215, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-215, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-215, filed 1/30/74; Order 68-7, § 296-22-215, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-220 Liver. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-220, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-220, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-220, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-220, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-220, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-220, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-220, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-220, filed 1/30/74; Order 68-7, § 296-22-220, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-225 Biliary tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-225, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-225, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-225, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-225, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-225, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-225, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-225, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-225, filed 1/30/74; Order 68-7, § 296-22-225, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-230 Pancreas. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-230, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-230, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-230, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-230, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-230, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-230, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-230, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-230, filed 1/30/74; Order 68-7, § 296-22-230, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-235 Abdomen, peritoneum and omentum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-235, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-235, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-235, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-235, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-235, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-235, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-235, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-235, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-235, filed 1/30/74; Order 68-7, § 296-22-235, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-245 Kidney. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-245, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-245, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-245, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-245, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-245, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-245, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-245, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-245, filed 1/30/74; Order 68-7, § 296-22-245, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-250 Ureter. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-250, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-250, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-250, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-250, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-250, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-250, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-250, filed 1/30/74; Order 68-7, § 296-22-250, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-255 Bladder. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-255, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-255, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-255, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-255, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-255, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-255, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-255, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-255, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-255, filed 1/30/74; Order 68-7, § 296-22-255, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-260 Urethra. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-260, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-260, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-260, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-260, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-260, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-260, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-260, filed 1/30/74; Order 68-7, § 296-22-260, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-265 Penis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-265, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-265, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-265, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-265, filed 7/23/87; 86-06-032 (Order

86-19), § 296-22-265, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-265, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-265, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-265, filed 1/30/74; Order 68-7, § 296-22-265, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-270 Testis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-270, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-270, filed 3/8/91, effective 5/1/91; 83-16-066 (Order 83-23), § 296-22-270, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-270, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-270, filed 1/30/74; Order 68-7, § 296-22-270, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-275 Epididymis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-275, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-275, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-275, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-275, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-275, filed 1/30/74; Order 68-7, § 296-22-275, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-280 Tunica vaginalis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-280, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-280, filed 3/8/91, effective 5/1/91. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-280, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-280, filed 1/30/74; Order 68-7, § 296-22-280, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-285 Scrotum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-285, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-285, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-285, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-285, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-285, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-285, filed 1/30/74; Order 68-7, § 296-22-285, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-290 Vas deferens. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-290, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-290, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-290, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-290, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-290, filed 1/30/74; Order 68-7, § 296-22-290, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-295 Spermatic cord. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-295, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-295, filed 3/8/91, effective 5/1/91. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-295, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-295, filed 1/30/74; Order 68-7, § 296-22-295, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-300 Seminal vesicles. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-300, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-300, filed 3/8/91, effective 5/1/91. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-300, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-300, filed 1/30/74; Order 68-7, § 296-22-300, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-305 Prostate. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-305, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-305, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-305, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-305, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-305, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-305, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-305, filed 1/30/74; Order 68-7, § 296-22-305, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-306 Intersex surgery. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-22-306, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(2), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-306, filed 12/3/80, effective 3/1/81.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-307 Perineum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-307, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-307, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-307, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-307, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-307, filed 1/30/74. Formerly WAC 296-22-335.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-310 Vulva and introitus. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-310, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-310, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-310, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-310, filed 7/23/87; 83-16-066 (Order 83-23), § 296-22-310, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-310, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-310, filed 1/30/74; Order 68-7, § 296-22-310, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-315 Vagina. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-315, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-315, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-315, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-315, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-315, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-315, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-315, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-315, filed 1/30/74; Order 68-7, § 296-22-315, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-325 Cervix uteri. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-325, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-325, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-325, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-325, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-325, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-325, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-325, filed 1/30/74; Order 68-7, § 296-22-325, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-330 Corpus uteri. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-330, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-330, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-330, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-330, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-330, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-330, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-330, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-330, filed 1/30/74; Order 68-7, § 296-22-330, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-333 Oviduct. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-333, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-333, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-333, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-333, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-333, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-333, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-333, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-333, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-337 Ovary. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-337, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-337, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-337, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-337, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-337, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-337, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-337, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-337, filed 1/30/74. Formerly WAC 296-22-320.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-340 Maternity care and delivery. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-340, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-340, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-340, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-340, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-340, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-340, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-340, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-340, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-340, filed 1/30/74; Order 68-7, § 296-22-340, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-350 Thyroid gland. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-350, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-350, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-350, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-350, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-350, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-350, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-350, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-350, filed 1/30/74; Order 68-7, § 296-22-350, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-355 Parathyroid, thymus, adrenal glands and carotid body. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-355, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-355, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-355, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-355, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-355, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-355, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-355, filed 1/30/74; Order 68-7, § 296-22-355, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-365 Skull, meninges, and brain. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-365, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-365, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-365, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-365, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-365, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-365, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-365, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-365, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-365, filed 1/30/74; Order 68-7, § 296-22-365, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-370 Spine and spinal cord. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-370, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-370, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-370, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-370, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-370, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-370, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-370, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-370, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-370, filed 1/30/74; Order 68-7, § 296-22-370, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-375 Extracranial nerves, peripheral nerves and autonomic nervous system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-375, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-375, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-375, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-375, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-375, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-375, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-375, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-375, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-375, filed 1/30/74; Order 68-7, § 296-22-375, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-405 Eyeball. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-405, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-405, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-405, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-405, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-405, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-405, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-405, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-405, filed 1/30/74; Order 68-7, § 296-22-405, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-410 Anterior segment—Cornea. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-410, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-410, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-410, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-410, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-410, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055

(Order 80-25), § 296-22-410, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-410, filed 1/30/74; Order 68-7, § 296-22-410, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-413 Anterior segment—Anterior chamber. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-413, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-413, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-413, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-413, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-413, filed 1/30/74. Formerly WAC 296-22-405 (part) and 296-22-415.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-415 Anterior segment—Anterior sclera. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-415, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-415, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-415, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-415, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-415, filed 1/30/74; Order 68-7, § 296-22-415, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-420 Anterior segment—Iris, ciliary body. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-420, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-420, filed 3/8/91, effective 5/1/91. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-420, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-420, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-420, filed 1/30/74; Order 68-7, § 296-22-420, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-425 Anterior segment—Lens. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-425, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-425, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-425, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-425, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-425, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-425, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-425, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-425, filed 1/30/74; Order 68-7, § 296-22-425, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-427 Posterior segment—Vitreous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-427, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-427, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-427, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-427, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-427, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-427, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-427, filed 1/30/74. Formerly WAC 296-22-425.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-430 Posterior segment—Retinal detachment. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-430, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-430, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-430, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-430, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-430, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-430, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-430, filed 1/30/74; Order 68-7, § 296-22-430, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-435 Ocular adnexa—Extraocular muscles. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-435, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-435, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-435, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-435, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-435, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-435, filed 1/30/74; Order 68-7, § 296-22-435, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-440 Ocular adnexa—Orbit. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-440, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-440, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-440, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-440, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-440, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-440, filed 1/30/74; Order 68-7, § 296-22-440, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-445 Ocular adnexa—Eyelids. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-445, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-445, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-445, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-445, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-445, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-445, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-445, filed 1/30/74; Order 68-7, § 296-22-445, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-450 Ocular adnexa—Conjunctiva. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-450, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-450, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-22-450, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-450, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-450, filed 1/30/74; Order 68-7, § 296-22-450, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-455 Ocular adnexa—Lacrimal system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-455, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-455, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-455, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-455, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-455, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-455, filed 1/30/74; Order 68-7, § 296-22-455, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-465 External ear. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-465, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-465, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-465, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-465, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-465, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-465, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-465, filed 1/30/74; Order 68-7, § 296-

22-465, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-470 Middle ear. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-470, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-470, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-470, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-22-470, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-22-470, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-22-470, filed 11/30/81, effective 1/1/82; 80-18-055 (Order 80-25), § 296-22-470, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-470, filed 1/30/74; Order 68-7, § 296-22-470, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-22-475 Inner ear. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-22-475, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-22-475, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-22-475, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-22-475, filed 7/23/87; 86-06-032 (Order 86-19), § 296-22-475, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-055 (Order 80-25), § 296-22-475, filed 12/3/80, effective 3/1/81; Order 74-7, § 296-22-475, filed 1/30/74; Order 68-7, § 296-22-475, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

Chapter 296-25
SAFETY STANDARDS—GENERAL

296-25-005, 296-25-010, 296-25-020, 296-25-030, 296-25-040, 296-25-050, 296-25-060, 296-25-070, 296-25-080, 296-25-090, 296-25-100, 296-25-110, 296-25-120, 296-25-130, 296-25-140, 296-25-200, 296-25-205, 296-25-210, 296-25-215, 296-25-220, 296-25-225, 296-25-230, 296-25-235, 296-25-240, 296-25-245, 296-25-250, 296-25-255, 296-25-260, 296-25-265, 296-25-270, 296-25-275, 296-25-280, 296-25-285, 296-25-290, 296-25-295, 296-25-300, 296-25-305, 296-25-310, 296-25-315, 296-25-320, 296-25-325, 296-25-330, 296-25-335, 296-25-340, 296-25-345, 296-25-350, 296-25-355, 296-25-360, 296-25-365, 296-25-370, 296-25-375, 296-25-380, 296-25-385, 296-25-390, 296-25-395, 296-25-400, 296-25-405, 296-25-410, 296-25-415, 296-25-420, 296-25-425, 296-25-430, 296-25-435, 296-25-440, 296-25-445, 296-25-450, 296-25-455, 296-25-460, 296-25-465, 296-25-470, 296-25-475, 296-25-480, 296-25-485, 296-25-490, 296-25-495, 296-25-500, 296-25-505, 296-25-510, 296-25-515, 296-25-520, 296-25-525, 296-25-530, 296-25-535, 296-25-540, 296-25-545, 296-25-550, 296-25-555, 296-25-560, 296-25-565, 296-25-570, 296-25-575, 296-25-580, 296-25-585, 296-25-590, 296-25-595, 296-25-600, 296-25-605, 296-25-610, 296-25-615, 296-25-620, 296-25-625, 296-25-630, 296-25-635, 296-25-640, 296-25-645, 296-25-650, 296-25-655, 296-25-660, 296-25-665, 296-25-670, 296-25-675, 296-25-680, 296-25-685, 296-25-690, 296-25-695, 296-25-700, 296-25-705, 296-25-710, 296-25-715, 296-25-720, 296-25-725, 296-25-730, 296-25-735, 296-25-740, 296-25-745, 296-25-750, 296-25-755, 296-25-760, 296-25-765, 296-25-770, 296-25-775, 296-25-780, 296-25-785, 296-25-790, 296-25-795, 296-25-800, 296-25-805, 296-25-810, 296-25-815, 296-25-820, 296-25-825, 296-25-830, 296-25-835, 296-25-840, 296-25-845, 296-25-850, 296-25-855, 296-25-860, 296-25-865, 296-25-870, 296-25-875, 296-25-880, 296-25-885, 296-25-890, 296-25-895, 296-25-900, 296-25-905, 296-25-910, 296-25-915, 296-25-920, 296-25-925, 296-25-930, 296-25-935, 296-25-940, 296-25-945, 296-25-950, 296-25-955, 296-25-960, 296-25-965, 296-25-970, 296-25-975. [Standards 1-152, filed 3/23/60.] Repeal of chapter 296-25 WAC was declared by Order 74-27, filed 5/7/74 to be effective upon the effective date of amendments to chapter 296-24 WAC set forth as part of this order. See chapter 296-24 WAC.

Chapter 296-26
LABOR CAMP RULES

296-26-010 Definitions. [Rule .60.010, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-020 Administration. [Rule .60.020, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-030 Water supply. [Rule .60.030, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-040 Sewage and liquid waste disposal—Existing and new construction. [Rule .60.040, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-050 Plumbing—Existing and new construction. [Rule .60.050, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-060 Refuse disposal—Existing and new construction. [Rule .60.060, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-070 Rodent and insect control—Existing and new construction. [Rule .60.070, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-080 Location and maintenance—Existing and new construction. [Rule .60.080, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-090 Construction and maintenance of dwelling units. [Rule .60.090, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-100 Ventilation. [Rule .60.100, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-110 Heating—Existing and new construction. [Rule .60.110, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-120 Lighting. [Rule .60.120, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-130 Toilet, handwashing, bathing, and laundry facilities—Existing and new construction. [Rule .60.130, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-140 Foodhandling facilities—Existing and new construction. [Rule .60.140, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-150 Beds and bedding—Existing and new construction. [Rule .60.150, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-160 Supervision and responsibility. [Rule .60.160, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-170 Communicable disease. [Rule .60.170, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

296-26-180 Effective date. [Rule .60.180, filed 3/29/61.] Repealed by Order 75-10, filed 4/4/75.

Chapter 296-38
CULINARY WORKERS SAFETY RULES

296-38-010 General requirements. [Rule 1.010, filed 8/26/63.] Repealed by Order 76-28, filed 9/28/76.

296-38-020 Equipment—Machinery. [Rule 2.010, filed 8/26/63.] Repealed by Order 76-28, filed 9/28/76.

296-38-030 Fire protection and prevention. [Rule 3.010, filed 8/26/63.] Repealed by Order 76-28, filed 9/28/76.

296-38-040 General working conditions. [Rules 4.010-4.040, filed 8/26/63.] Repealed by Order 76-28, filed 9/28/76.

296-38-050 Illumination. [Rule 5.010, filed 8/26/63.] Repealed by Order 76-28, filed 9/28/76.

Chapter 296-40
SAFETY STANDARDS—CONSTRUCTION WORK

296-40-010, 296-40-015, 296-40-020, 296-40-030, 296-40-035, 296-40-040, 296-40-045, 296-40-050, 296-40-055, 296-40-060, 296-40-065, 296-40-070, 296-40-075, 296-40-080, 296-40-085, 296-40-090, 296-40-095, 296-40-100, 296-40-105, 296-40-110, 296-40-115, 296-40-120, 296-40-125, 296-40-130, 296-40-135, 296-40-140, 296-40-145, 296-40-150, 296-40-155, 296-40-160, 296-40-165, 296-40-170, 296-40-175, 296-40-180, 296-40-185, 296-40-190, 296-40-195, 296-40-200, 296-40-205, 296-40-210, 296-40-215, 296-40-220, 296-40-225, 296-40-230, 296-40-235, 296-40-240, 296-40-245, 296-40-250, 296-40-255, 296-40-260, 296-40-265, 296-40-270, 296-40-275, 296-40-280, 296-40-285, 296-40-290, 296-40-295, 296-40-300, 296-40-310, 296-40-320, 296-40-330, 296-40-350, 296-40-360, 296-40-365, 296-40-370, 296-40-375, 296-40-380, 296-40-385, 296-40-390, 296-40-395, 296-40-400, 296-40-410, 296-40-415, 296-40-420, 296-40-425, 296-40-430, 296-40-435, 296-40-440, 296-40-450, 296-40-460, 296-40-470, 296-40-480, 296-40-490, 296-40-500, 296-40-510, 296-40-520, 296-40-530, 296-40-540, 296-40-550, 296-40-560, 296-40-570, 296-40-580, 296-40-590, 296-40-600, 296-40-610, 296-40-620, 296-40-630, 296-40-640, 296-40-650, 296-40-660, 296-40-665, 296-40-670, 296-40-675, 296-40-680, 296-40-685, 296-40-690, 296-40-695, 296-40-700, 296-40-705, 296-

40-710, 296-40-715, 296-40-720, 296-40-725, 296-40-730, 296-40-735, 296-40-740, 296-40-745, 296-40-750, 296-40-755, 296-40-760, 296-40-765, 296-40-770, 296-40-780, 296-40-790, 296-40-795, 296-40-800, 296-40-810, 296-40-820, 296-40-825, 296-40-830, 296-40-835, 296-40-840, 296-40-845, 296-40-850, 296-40-855, 296-40-860, 296-40-865, 296-40-870, 296-40-875, 296-40-880, 296-40-890, Appendix 1 Traffic control signs; Appendix 2 Sheet piling, shoring and bracing; and Appendix 3 Scaffolds. [Book entitled "Safety Standards for Construction Work" chapter 296-40 WAC, filed 3/23/60.] Repealed by Order 74-26, filed 5/7/74. For later promulgation, see chapter 296-155 WAC.

296-40-412 [Order 74-1, filed 1/8/74.] Repealed by Order 74-26, filed 5/7/74 before codification in the Washington Administrative Code, see chapter 296-155 WAC, Safety standards for construction work adopted by Order 74-26, filed 5/7/74.

Chapter 296-41
LIQUEFIED PETROLEUM GASES

The Standards for the Storage and Handling of Liquefied Petroleum Gases, N.B.F.U. #58. [Filed 3/29/61.] Repealed by Order 76-28, filed 9/28/76.

Chapter 296-42
PETROLEUM—REFINING, TRANSPORTATION AND HANDLING

296-42-010 Application, scope and permits for variations from orders. [§ I, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-020 Definitions. [§ 2, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-030 Accident prevention program. [Rules 3.010-3.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-040 First aid. [Rule 4.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-050 Fire and explosions—Smoking, matches, lighters. [Rule 5.010, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-060 Fire and explosions—Fire protection and fire fighting equipment. [Rule 5.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-070 Fire and explosions—Cleaning oils. [Rule 5.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-080 Fire and explosions—Static electricity. [Rule 5.040, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-090 Fire and explosions—Spontaneous ignition. [Rule 5.050, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-100 Fire and explosions—Fire permits. [Rule 5.060, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-110 Fire and explosions—Surge tanks. [Rule 5.070, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-120 Fire and explosions—Flammable waste gases or vapors. [Rule 5.080, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-130 Fire and explosions—Transfer of light oils by air displacement. [Rule 5.090, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-140 Fire and explosions—Steam hose. [Rule 5.100, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-150 Dangerous exposure. [Rules 6.010 and 6.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-160 Enclosed and confined spaces—Ventilation. [Rule 7.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-170 Enclosed and confined spaces—Confined spaces. [Rule 7.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-180 Escape exits. [Rule 8.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-200 Tanks—Stationary tanks. [Rule 9.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-210 Tanks—Stationary tank maintenance. [Rule 9.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-220 Tanks—Diversion and retaining walls. [Rule 9.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-230 Gas and vapor testing. [Rule 10.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-240 Opening and blinding pipe lines and equipment—Opening pipe lines and equipment. [Rule 11.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-250 Opening and blinding pipe lines and equipment—Blinding of pipe lines and equipment. [Rule 11.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-260 Hazardous commodities—General. [Rule 12.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-270 Hazardous commodities—Corrosives. [Rule 12.020, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-280 Hazardous commodities—Leaded gasoline stationary tanks. [Rule 12.030, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-290 Drainage. [Rule 13.010, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-300 Agitation and heating of liquids in tanks. [Rule 14.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-310 Process equipment maintenance—General. [Rule 15.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-320 Process equipment maintenance—Condenser and cooling boxes. [Rule 15.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-330 Pumps, pipe lines and valves—Pumps. [Rule 16.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-340 Pumps, pipe lines and valves—Pipe lines and piping. [Rule 16.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-350 Pumps, pipe lines and valves—Valves. [Rule 16.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-360 Equipment leakage and breakage—Leakage control. [Rule 17.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-370 Equipment leakage and breakage—Gage glasses. [Rule 17.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-380 Equipment identification. [Rule 18.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-390 Gas compressors and engines—Gas compressor or gas processing plant protection. [Rule 19.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-400 Gas compressors and engines—Gas compressors. [Rule 19.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-410 Gas compressors and engines—Stationary internal combustion engines. [Rule 19.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-420 Loading and unloading facilities and operations—Loading platforms. [Rule 20.010, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-430 Loading and unloading facilities and operations—Loading and unloading operations. [Rule 20.020, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-440 Loading and unloading facilities and operations—Liquefied petroleum gases—Loading and unloading. [Rule 20.030, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-450 Laboratories and pilot plants. [Rule 21.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-460 Wharves. [Rule 22.010, filed 1/11/63.] Repealed by Order 76-28, filed 9/28/76.

296-42-470 Bulk distributing plants. [Rule 23.010, filed 1/11/63 and 1/15/63.] Repealed by Order 76-28, filed 9/28/76.

Chapter 296-44
SAFETY STANDARDS—ELECTRICAL CONSTRUCTION CODE

296-44-005 Preface. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-005, filed 7/25/86; Preface (part), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-010 Definitions of special terms. [§ 1, filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-011 Definitions of special terms applicable to this chapter. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-011, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-013 Purpose and scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-013, filed 7/25/86; § 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98,

effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-015 Lines constructed prior to these rules. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-015, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-016 Applicability. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-016, filed 7/25/86; § 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-017 References. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-017, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-019 Applicability of rules—To construction and reconstruction of lines. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-022 Applicability of rules—Restoration of clearances. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-023 Grounding methods for electric supply and communication facilities. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-023, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02301 Purpose. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02301, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02305 Scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02305, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02309 Point of connection of grounding conductor. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02309, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02315 Grounding conductor and means of connection. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02315, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02319 Grounding electrodes. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02319, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02323 Method of connection to electrode. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02323, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02329 Ground resistance. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02329, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02335 Separation of grounding conductors. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02335, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-02349 Grounding methods for telephone and other communication apparatus on circuits exposed to supply lines or lightning. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-02349, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-025 Applicability of rules—Lines constructed prior to these rules. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-028 Applicability of rules—Reconstruction or alteration. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-031 Applicability of other standards. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-034 Design, construction and maintenance. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-035 Rules for the installation and maintenance of electric supply stations and equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-035, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-03505 Purpose. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-03505, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-03509 Scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-03509, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-037 Limiting conditions specified. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-040 Waiving of rules. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-041 Protective arrangements in electric supply stations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-041, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-04105 General requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-04105, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-04109 Illumination. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-04109, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-04125 Floor, floor openings, passageways, stairs. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-04125, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-04129 Exits. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-04129, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-04135 Fire extinguishing equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-04135, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-043 Exemptions or modifications. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-046 Emergency. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-049 Saving clause. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-051 Installation and maintenance of equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-051, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05105 General requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05105, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05109 Inspections. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05109, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05115 Guarding shaft ends, pulleys, belts and suddenly moving parts. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05115, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05119 Protective grounding. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05119 filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05125 Guarding live parts. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05125, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05129 Working space about electric equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05129, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05131 Equipment for work on energized parts. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05131, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05135 Classified locations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05135, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-05141 Identification. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-05141, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-052 Cooperation to avoid conflicts. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-055 Joint use of poles. [§ 2 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-058 Rules covering methods of protective grounding of circuits, equipment, and lightning arresters for stations, lines, and utilization equipment—Scope. [§ 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-061 Rules covering methods of protective grounding of circuits, equipment, and lightning arresters for stations, lines, and utilization equipment—Point of attachment of grounding conductor. [§ 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-064 Grounding conductor. [§ 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-065 Rotating equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-065, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-06505 Speed control and stopping devices. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-06505, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-06511 Motor control. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-06511, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-06517 Mobile hydrogen equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-06517, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-067 Ground connections. [Rule 93C (codified as subsection (4)), filed 10/30/64, effective 12/1/64; Subsections A through D (codified as (1), (2), (3), (4) and (5)), filed 3/23/60, effective 12/1/58; Rule 93C, § 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-070 Method. [Subsection D (codified as (4)), filed 10/30/64, effective 12/1/64; Subsections A through C (codified as (1), (2), (3)), § 9 (part), filed 3/23/60, effective 12/1/58; Rule 94D, § 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-073 Ground resistance. [§ 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-074 Storage batteries. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-074, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07405 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07405, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07411 Location. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07411, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07417 Ventilation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07417, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07423 Racks. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07423, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07427 Floors in battery areas. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07427, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07433 Illumination for battery areas. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07433, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-07439 Service facilities. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-07439, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-076 Separate grounding conductors and grounds. [Subsection B (codified as (2)), filed 10/30/64, effective 12/1/64; Subsections A and B (codified as (1) and (3)), § 9 (part), filed 3/23/60, effective 12/1/58; Rule 96B, § 9 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-079 Protective arrangements of stations and substations—Scope of the rules. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-082 Protective arrangements of stations and substations—General requirements. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-085 Protective arrangements of stations and substations—Illumination. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-086 Transformers and regulators. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-086, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-08605 Current-transformer secondary circuits protection when exceeding 600 volts. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-08605, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-08611 Grounding secondary circuits of instrument transformers. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-08611, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-08619 Location and arrangement of power transformers and regulators. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-08619, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-088 Protective arrangements of stations and substations—Floors, floor openings, passageways, stairs. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-091 Protective arrangements of stations and substations—Exits. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-094 Protective arrangements of stations and substations—Fire-fighting apparatus. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-097 Protective arrangements of stations and substations—Oil-filled apparatus. [§ 10 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-098 Conductors. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-098, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-09805 Electrical protection. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-09805, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-09811 Mechanical protection. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-09811, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-09819 Isolation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-09819, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-09826 Conductor terminations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-09826, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-100 Protective arrangements of equipment—General requirement. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-103 Protective arrangements of equipment—Inspections. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-106 Protective arrangements of equipment—Guarding shaft ends, pulleys, and belts, and suddenly moving parts. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-109 Protective arrangements of equipment—Protective grounding. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-110 Circuit breakers, reclosers, switches and fuses. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-110, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-11005 Arrangement. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-11005, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-11021 Application. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-11021, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-11029 Circuit breakers, reclosers and switches containing oil. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-11029, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-11035 Switches and disconnecting devices. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-11035, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-11041 Disconnection of fuses. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-11041, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-112 Protective arrangements of equipment—Guarding live parts. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-115 Protective arrangements of equipment—Working space about electric equipment. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-118 Protective arrangements of equipment—Hazardous locations. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-121 Protective arrangements of equipment—Shielding of equipment from deteriorating agencies. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-124 Protective arrangements of equipment—Identification. [§ 11 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-125 Switchgear and metal enclosed bus. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-125, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-12505 Switchgear assemblies. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-12505, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-12515 Metal enclosed bus. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-12515, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-127 Rotating equipment (this includes generators, motors, motor-generators, and converters)—Speed-control and stopping devices. [§ 12 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-130 Rotating equipment (this includes generators, motors, motor-generators, and converters)—Guards for live parts. [§ 12 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-133 Rotating equipment (this includes generators, motors, motor-generators, and converters)—Grounding machine frames. [§ 12 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-134 Surge arresters. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-134, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-13405 General requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-13405, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-13415 Indoor locations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-13415, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-13421 Grounding conductors. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-13421, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-13431 Installation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-13431, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-136 Rotating equipment (this includes generators, motors, motor-generators, and converters)—Deteriorating agencies. [§ 12 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-139 Rotating equipment (this includes generators, motors, motor-generators, and converters)—Motors. [§ 12 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-142 Storage batteries—General. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-145 Storage batteries—Isolation. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-148 Storage batteries—Ventilation. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-151 Storage batteries—Insulation. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-154 Storage batteries—Racks and trays. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-157 Storage batteries—Floors. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-160 Storage batteries—Wiring in battery rooms. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-163 Storage batteries—Guarding live parts in battery rooms. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-166 Storage batteries—Illumination for battery rooms enclosing batteries of the nonsealed type. [§ 13 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-169 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Current-transformer secondary circuits. [§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-170 Safety rules for the installation and maintenance of overhead electric supply and communication lines. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-170, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-17005 Purpose. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-17005, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-17017 Scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-17017, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-17029 Application of rules. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-17029, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-172 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Grounding secondary circuits of instrument transformers. [§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-175 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Grounding transformer cases. [§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-178 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Location and arrangement of power transformers. [§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-181 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Resistance devices.

[§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-182 General requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-182, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18205 Referenced sections. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18205, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18225 Induced voltages. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18225, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18239 Accessibility. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18239, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18250 Inspection and tests of lines and equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18250, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18261 Grounding of circuits, supporting structures, and equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18261, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-18273 Arrangement of switches. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-18273, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-184 Transformers, induction regulators, rheostats, ground detectors, and similar equipment—Ground detectors. [§ 14 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-187 Conductors—Electrical protection. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-190 Conductors—Precaution against mechanical and thermal damage. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-193 Conductors—Isolation. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-194 Relations between various classes of lines. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-194, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-19405 Relative levels. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-19405, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-19421 Avoidance of conflict. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-19421, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-19433 Joint use of structures. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-19433, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-196 Conductors—Guarding conductors. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-199 Conductors—Guarding in hazardous locations. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-202 Conductors—Taping ends and joints. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-205 Conductors—Wiring for illumination. [§ 15 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-208 Fuses, circuit-breakers, switches, and controllers—Accessible and indicating. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-211 Fuses, circuit-breakers, switches, and controllers—Oil switches. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-212 Clearances. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-212, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21209 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21209, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21221 Clearances of supporting structures from other objects. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21221, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21230 Vertical clearance of wires, conductors, cables, and live parts of equipment above ground, rails, or water. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21230, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21241 Clearances between wires, conductors, and cables carried on different supporting structures. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21241, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21253 Clearance of wires, conductors, and cables from buildings, bridges, rail cars, swimming pools, and other installations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21253, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21265 Clearance for wires, conductors, or cables carried on the same supporting structure. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21265, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21273 Climbing space. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21273, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21279 Working space. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21279, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21287 Vertical clearance between certain communication and supply facilities located on the same structure. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-

007 (Order 86-26), § 296-44-21287, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-21295 Clearances of vertical and lateral conductors from other wires and surfaces on the same support. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-21295, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-214 Fuses, circuit-breakers, switches, and controllers—Where switches are required. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-217 Fuses, circuit-breakers, switches, and controllers—Switches or other grounding devices. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-220 Fuses, circuit-breakers, switches, and controllers—Capacity of switches and disconnectors. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-223 Fuses, circuit-breakers, switches, and controllers—Where fuses or automatic circuit-breakers are required. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-226 Fuses, circuit-breakers, switches, and controllers—Disconnection of fuses before handling. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-229 Fuses, circuit-breakers, switches, and controllers—Arcing or suddenly moving parts. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-232 Fuses, circuit-breakers, switches, and controllers—Grounding noncurrent-carrying metal parts. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-235 Fuses, circuit-breakers, switches, and controllers—Guarding live parts of switches, fuses, and automatic circuit-breakers. [§ 16 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-238 Switchboards—Location and accessibility. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-241 Switchboards—Material and illumination. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-242 Grades of construction. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-242, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-24205 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-24205, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-24213 Application of grades of construction to different situations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-24213, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-24221 Grades of construction for conductors. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-24221, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-24233 Grades of construction for line supports. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-24233, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-244 Switchboards—Necessary equipment. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-247 Switchboards—Arrangement and identification. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-250 Switchboards—Spacings and barriers against short-circuit. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-253 Switchboards—Switchboard grounding. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-256 Switchboards—Guarding live parts on switchboards. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-259 Switchboards—Instrument cases. [§ 17 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-262 Lightning arresters—Location. [§ 18 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-263 Loading for Grades B, C, and D. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-263, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-26309 General loading requirements and maps. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-26309, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-26321 Conductor loading. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-26321, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-26333 Loads upon line supports. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-26333, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-265 Lightning arresters—Connecting wires. [§ 18 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-268 Lightning arresters—Grounding frames and cases of lightning arresters. [§ 18 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-271 Lightning arresters—Guarding live and arcing parts. [§ 18 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-274 Nature of rules—Minimum requirements. [§ 20 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-277 General requirements applying to overhead and underground lines—Design and construction. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-278 Strength requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-278, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority:

RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-27809 Preliminary assumptions. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-27809, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-27821 Grades B and C construction. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-27821, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-27833 Grade D construction. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-27833, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-27847 Grade N construction. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-27847, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-280 General requirements applying to overhead and underground lines—Installation and maintenance. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-283 General requirements applying to overhead and underground lines—Accessibility. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-286 General requirements applying to overhead and underground lines—Inspection and tests of lines and equipment. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-289 General requirements applying to overhead and underground lines—Isolation and guarding. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-292 General requirements applying to overhead and underground lines—Grounding of circuits and equipment. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-295 General requirements applying to overhead and underground lines—Arrangement of switches. [§ 21 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-29501 Line insulation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29501, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29509 Application of rule. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29509, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29515 Material and marking. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29515, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29523 Ratio of flashover to puncture voltage. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29523, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29529 Insulation level. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29529, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29539 Factory tests. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29539, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29541 Special insulator applications. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29541, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29551 Protection against arcing and other damage. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29551, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29563 Mechanical strength of insulators. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29563, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-29572 Aerial cable systems. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-29572, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-298 Relations between various classes of lines—Relative levels. [§ 22 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-301 Relations between various classes of lines—Avoidance of conflict. [§ 22 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-304 Relations between various classes of lines—Joint use of poles by supply and communication circuits. [§ 22 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-307 Relations between various classes of lines—Separate pole lines. [§ 22 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-310 Clearances—General. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-313 Clearances—Horizontal clearances of supporting structures from other objects. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-316 Clearances—Vertical clearance of wires above ground or rails. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-317 Miscellaneous requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-317, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31709 Structures for overhead lines. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31709, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31719 Tree trimming. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31719, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31729 Guying and bracing. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31729, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31738 Insulators in guys attached to supporting structures. [Statutory Authority: RCW 49.17.040 and 49.17.050.

86-16-007 (Order 86-26), § 296-44-31738, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31749 Span-wire insulators. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31749, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31757 Overhead conductors. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31757, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31765 Equipment on supporting structures. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31765, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31772 Communications protective requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31772, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31783 Circuits of one class used exclusively in the operation of circuits of another class. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31783, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-31792 Electric railway construction. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-31792, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-319 Clearances—Wire-crossing clearances. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-322 Clearances—Clearances of conductors of one line from other conductors and structures. [Tables 4 and 5, filed 10/30/64, effective 12/1/64; § 23 (part), Tables 4 and 5, filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-325 Clearances—Minimum line conductor clearances and separations at supports. [Subsections (1)(b)(ii) and (1)(c)(ii), filed 10/30/64, effective 12/1/64; § 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-328 Clearances—Climbing space. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-331 Clearances—Working space. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-334 Clearances—Vertical separation between line conductors, cables, and equipment located at different levels on the same pole or structure. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-337 Clearances—Clearances of vertical and lateral conductors from other wires and surfaces on the same support. [§ 23 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-340 Grades of construction—General. [§ 24 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-343 Grades of construction—Application of grades of construction to different situations. [§ 24 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-346 Grades of construction—Grades of construction for conductors. [§ 24 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-349 Grades of construction—Grades of supporting structures. [§ 24 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-350 Safety rules for the installation and maintenance of underground electric-supply and communication lines. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-350, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-35009 Purpose. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-35009, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-35021 Scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-35021, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-352 Loading for Grades B, C, and D—General loading map. [§ 25 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-355 Loading for Grades B, C, and D—Conductor loading. [§ 25 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-358 Loading for Grades B, C, and D—Loads upon line supports. [§ 25 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-361 Strength requirements—Preliminary assumptions. [§ 26 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-364 Strength requirements—Grades B and C construction. [§ 26 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-365 General requirements applying to underground lines. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-365, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36518 Installation and maintenance. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36518, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36527 Accessibility. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36527, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36539 Inspection and tests of lines and equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36539, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36551 Grounding of circuits and equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36551, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36563 Communication protective requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36563, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-36575 Induced voltage. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-36575, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050, [49.17].060.

296-44-367 Strength requirements—Grade D construction. [§ 26 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-370 Strength requirements—Grade N construction. [§ 26 (part), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-373 Line insulators—Application of rule. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-376 Line insulators—Material and marking. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-379 Line insulators—Electrical strength of insulators in strain position. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-382 Line insulators—Ratio of flash-over to puncture voltage. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-385 Line insulators—Test voltages. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-386 Underground conduit systems. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-386, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-38609 Location. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-38609, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-38628 Excavation and backfill. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-38628, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-38641 Ducts and joints. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-38641, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-38653 Manholes, handholes and vaults. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-38653, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-388 Line insulators—Factory tests. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-391 Line insulators—Selection of insulators. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-394 Line insulators—Protection against arcing. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-397 Line insulators—Compliance with WAC 296-44-394 at crossings. [§ 27 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-398 Supply cable. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-398, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-39809 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-39809, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-39823 Sheaths and jackets. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-39823, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-39842 Shielding. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-39842, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-39855 Cable accessories and joints. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-39855, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-400 Miscellaneous requirements—Supporting structures for overhead lines. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-403 Miscellaneous requirements—Tree trimming. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-406 Miscellaneous requirements—Guying. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-409 Miscellaneous requirements—Insulators in guys attached to poles and towers. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-412 Miscellaneous requirements—Span-wire insulators. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-413 Cable in underground structures. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-413, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-41309 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-41309, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-41321 Installation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-41321, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-41333 Grounding and bonding. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-41333, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-41341 Fireproofing. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-41341, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-41359 Communication cables containing special supply circuits. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-41359, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-415 Miscellaneous requirements—Overhead conductors. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-418 Miscellaneous requirements—Equipment on poles. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by

86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-421 Miscellaneous requirements—Protection for exposed overhead communication lines. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-424 Miscellaneous requirements—Circuits of one class used exclusively in the operation of circuits of another class. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-425 Direct buried cable. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-425, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-42509 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-42509, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-42521 Location and routing. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-42521, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-42533 Clearances from other underground structures (sewers, water lines, fuel lines, building foundations, steam lines, other supply or communication conductors not in random separation, etc.). [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-42533, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-42541 Installation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-42541, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-42559 Random separation—Additional requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-42559, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-427 Miscellaneous requirements—Overhead electric railway construction. [§ 28 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-430 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Location. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-433 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Construction of duct and cable systems. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-436 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Construction of manholes. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-439 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Location of cables. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-440 Risers. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-440, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-44009 General. [Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-44-44009, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-44009, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-44021 Installation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-44021, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-44033 Pole risers—Additional requirements. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-44033, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-44047 Pad-mounted installations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-44047, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-442 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Protection and separation of conductors buried in earth. [§ 29 (part), Rule 294, filed 10/30/64, effective 12/1/64; § 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-445 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Protection of conductors in duct systems and manholes. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-448 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Guarding of live parts in manholes. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-451 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Construction at risers from underground. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-452 Supply cable terminations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-452, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-45209 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-45209, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-45219 Support at terminations. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-45219, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-45231 Identification. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-45231, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-45243 Separations and clearances in enclosures or vaults. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-45243, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-45257 Grounding. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-45257, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-454 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Identification of conductors. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-457 Rules for underground lines (see also WAC 296-44-424 (2)(b))—Identification of apparatus connected in multiple. [§ 29 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-460 Installation and maintenance of electric utilization equipment—General requirements—Scope. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-463 Installation and maintenance of electric utilization equipment—General requirements. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-466 Installation and maintenance of electric utilization equipment—Reference to other codes. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-467 Equipment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-467, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46709 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46709, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46733 Design. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46733, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46739 Location in underground structures. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46739, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46747 Installation. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46747, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46755 Grounding. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46755, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-46761 Identification. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-46761, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-469 Installation and maintenance of electric utilization equipment—Grounding. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-472 Installation and maintenance of electric utilization equipment—Working spaces about electric equipment. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-478 Installation and maintenance of electric utilization equipment—Guarding or isolating live parts. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-481 Installation and maintenance of electric utilization equipment—Hazardous locations. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-484 Installation and maintenance of electric utilization equipment—Protection by disconnection. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-487 Installation and maintenance of electric utilization equipment—Identification of equipment. [§ 30 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-490 Conductors—Electrical protection. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-491 Installation in tunnels. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-491, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-49109 General. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-49109, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-49121 Environment. [Statutory Authority: RCW 49.17.040 and 49.17.050. 86-16-007 (Order 86-26), § 296-44-49121, filed 7/25/86.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-493 Conductors—Protective covering. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-496 Conductors—Identification of conductors and terminals. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-499 Conductors—Guarding and isolating conductors. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-502 Conductors—Guarding in damp or hazardous locations. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-505 Conductors—Precautions against excessive inductance and eddy currents. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-508 Conductors—Splicing and taping. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-511 Conductors—Uninsulated conductors. [§ 31 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-514 Fuses, circuit-breakers, switches and controllers—General requirements for switches. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-517 Fuses, circuit-breakers, switches and controllers—Hazardous locations. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-520 Fuses, circuit-breakers, switches and controllers—Where switches are required. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-523 Fuses, circuit-breakers, switches and controllers—Character of switches and disconnectors. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-526 Fuses, circuit-breakers, switches and controllers—Disconnection of fuses and thermal cut-outs before handling. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-529 Fuses, circuit-breakers, switches and controllers—Arcing or suddenly moving parts. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-532 Fuses, circuit-breakers, switches and controllers—Grounding noncurrent-carrying metal parts. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-535 Fuses, circuit-breakers, switches and controllers—Guarding live parts. [§ 32 (part), filed 3/23/60, effective

12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-538 Fuses, circuit-breakers, switches and controllers—Inclosed air-break switches (not including snap switches). [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-541 Fuses, circuit-breakers, switches and controllers—Control equipment. [§ 32 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-544 Switchboards and panelboards—Accessibility and convenient attendance. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-547 Switchboards and panelboards—Location and illumination. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-550 Switchboards and panelboards—Arrangement and identification. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-553 Switchboards and panelboards—Spacing, barriers and covers. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-556 Switchboards and panelboards—Grounding frames. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-559 Switchboards and panelboards—Guarding current-carrying parts. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-562 Switchboards and panelboards—Fuses on switchboards. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-565 Switchboards and panelboards—Panelboards. [§ 33 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-568 Motors and motor-driven machinery—Control devices. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-571 Motors and motor-driven machinery—Hazardous locations. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-574 Motors and motor-driven machinery—Deteriorating agencies. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-577 Motors and motor-driven machinery—Guards for live parts. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-580 Motors and motor-driven machinery—Grounding machine frames. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-583 Motors and motor-driven machinery—Protecting moving parts. [§ 34 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-586 Electric furnaces, storage batteries, transformers, and lightning arresters—Protection from burns. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-589 Electric furnaces, storage batteries, transformers, and lightning arresters—Grounding of furnace frames. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-592 Electric furnaces, storage batteries, transformers, and lightning arresters—Guarding live parts. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-595 Electric furnaces, storage batteries, transformers, and lightning arresters—Storage batteries. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-598 Electric furnaces, storage batteries, transformers, and lightning arresters—Transformers. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-601 Electric furnaces, storage batteries, transformers, and lightning arresters—Lightning arresters. [§ 35 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-604 Lighting fixtures and signs—Fixtures. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-607 Lighting fixtures and signs—Receptacle for convenience outlet. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-610 Lighting fixtures and signs—Exposed live parts. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-613 Lighting fixtures and signs—Signs. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-616 Lighting fixtures and signs—Connectors for signs. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-619 Lighting fixtures and signs—Lamps in series circuits. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-622 Lighting fixtures and signs—Safe access to arc lamps. [§ 36 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-625 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Insulation. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-628 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Grounding of frames. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-631 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Cable connectors. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-634 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Identified conductors, cords, and connectors. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-637 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Use of portables and pendants. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-640 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Portable outdoor equipment of more than 750 volts between conductors. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-643 Portable appliances, cables and connectors, and insect eliminators (not including those for communication systems)—Insect eliminators. [§ 37 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-646 Electrically operated industrial locomotives, cars, cranes, hoists, and elevators—Guarding live and moving parts. [§ 38 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-649 Electrically operated industrial locomotives, cars, cranes, hoists, and elevators—Grounding noncurrent-carrying parts. [§ 38 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-652 Electrically operated industrial locomotives, cars, cranes, hoists, and elevators—Control of energy supply to cars, cranes, and industrial locomotives. [§ 38 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-655 Control of movement of industrial locomotives, cars, cranes, and elevators. [§ 38 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-658 Control of movement of industrial locomotives, cars, cranes, and elevators—Subway and car lighting. [§ 38 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-661 Telephone and other communication apparatus on circuits exposed to supply lines or lightning—Protective requirements. [§ 39 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-664 Telephone and other communication apparatus on circuits exposed to supply lines or lightning—Guarding current-carrying parts. [§ 39 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-667 Telephone and other communication apparatus on circuits exposed to supply lines or lightning—Grounding. [§ 39 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-670 Rules for radio and T.V. installations—Scope. [§ 50, filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-673 Classification of radio stations. [§ 51, filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007(Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-676 Antenna and counterpoise installation—Application of rules. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-679 Antenna and counterpoise installation—General requirements. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-682 Antenna and counterpoise installation—Locations to be avoided. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-685 Antenna and counterpoise installation—Ordinary construction of antenna systems. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-688 Antenna and counterpoise installation—Special construction of antenna systems. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-691 Antenna and counterpoise installation—Guarding of antennas. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-694 Antenna and counterpoise installation—Supply circuits as antennas or grounds. [§ 52 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-697 Lead-in conductors—Application of rules. [§ 53 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-700 Lead-in conductors—Material. [§ 53 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-703 Lead-in conductors—Size. [§ 53 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-706 Lead-in conductors—Installation of lead-in conductor. [§ 53 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-709 Construction at building entrance—Application of rules. [§ 54 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-712 Construction at building entrance—Entrance. [§ 54 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-715 Construction at building entrance—Creepage and air-gap distance. [§ 54 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-718 Construction at building entrance—Mechanical protection of bushings. [§ 54 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-721 Protective devices—Application of rules. [§ 55 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-724 Protective devices—Receiving stations. [§ 55 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-727 Protective devices—Low-power transmitting stations. [§ 55 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-730 Protective and operating grounding conductors—Application of rules. [§ 56 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-733 Protective and operating grounding conductors—General. [§ 56 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-736 Protective and operating grounding conductors—Material and size. [§ 56 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-739 Protective and operating grounding conductors—Installation of grounding conductors. [§ 56 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-742 Grounds and ground connections—Application of rules. [§ 57 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-745 Grounds and ground connections—Grounds. [§ 57 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-748 Grounds and ground connections—Attachment to pipes. [§ 57 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-751 Grounds and ground connections—Attachment to driven pipes, rods, or buried plates. [§ 57 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-754 Connection to power supply lines—Application of rules. [§ 58 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-757 Connection to power supply lines—Receiving stations and low-power transmitting stations. [§ 58 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-760 Batteries—Application of rules. [§ 59 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-763 Batteries—Care in handling. [§ 59 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-766 Batteries—Portable batteries. [§ 59 (part), filed 3/23/60, effective 12/1/58.] Repealed by 86-16-007 (Order 86-26), filed 7/25/86. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-44-850 Pole lines that overbuild or underbuild existing pole lines. [Rule 34, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-855 High potential lines overbuilding telephone, telegraph, or signal wires. [Rule 35, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-860 Crossings over railroads, street railroads, telephone, telegraph, signal or other power lines—General requirements. [Rule 36, subsections 1-16, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-865 Crossings over railroads, street railroads, telephone, telegraph, signal or other power lines—Loads. [Rule 36, subsections 17-23, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-870 Crossings over railroads, street railroads, telephone, telegraph, signal or other power lines—Factors of safety. [Rule 36, subsections 24-37, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-875 Crossings over railroads, street railroads, telephone, telegraph, signal or other power lines—Working unit stresses. [Rule 36, subsections 38-41, filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-880 Crossings over railroads, street railroads, telephone, telegraph, signal or other power lines—Clearance. [Rule (part), (codified as WAC 296-44-880), filed 8/3/61.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88001 Figure 1—Ground wire clearance. [Figure 1, (codified as WAC 296-44-88001), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88002 Figure 2—Basic wire crossing clearance. [Figure 2, (codified as WAC 296-44-88002), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88003 Figure 5—Clearances above ground for underground risers and horizontal clearance of poles from hydrants, curbs and railroads. [Figure 5, (codified as WAC 296-44-88003), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88004 Illustration—Working space. [Illustration, (codified as WAC 296-44-88004), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88005 Figures 6.A - 9.A—Clearances. [Figures 6.A - 9.A, (codified as WAC 296-44-88005), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88006 Figure—Climbing space. [Figure, (codified as WAC 296-44-88006), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88007 Illustration—Climbing space. [Illustration, (codified as WAC 296-44-88007), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88008 Illustration—Climbing space. [Illustration, (codified as WAC 296-44-88008), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88009 Illustration—Footnote 7 of Table 11—Climbing space. [Illustration, (codified as WAC 296-44-88009), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88010 Figure 11.A—Minimum vertical separation between horizontal crossarms. [Figure 11.A, (codified as WAC 296-44-88010), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

296-44-88011 Illustration—Climbing space—Location and spacing of crossarms. [Illustration, (codified as WAC 296-44-88011), filed 3/23/60, effective 12/1/58.] Repealed by 98-07-009, filed 3/6/98, effective 5/6/98. Statutory Authority: RCW 49.17.010, [49.17].040, [49.17].050 and [49.17].060.

Reviser's note: Later promulgation, see chapter 296-45 WAC.

Chapter 296-47
ELECTRICAL WIRING AND APPARATUS

Reviser's note: On March 29, 1961, the department of labor and industries filed with the code reviser's office the November 1959 edition of the N.B.F.U. National Electrical Code #70. On March 31st, the code reviser received a letter from the department stating that such code was adopted by the procedure prescribed by law.

Repealed by 94-01-005, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 19.28.010.

Chapter 296-48
MOBILE HOMES, COMMERCIAL COACHES AND RECREATIONAL VEHICLES

296-48-005 Administrative—Authority for mobile home code. [Order 76-26, § 296-48-005, filed 8/23/76; Order 75-20, § 296-48-005, filed 7/16/75; Order 70-2, § 296-48-005, filed 4/27/70; Order 68-4, § 296-48-005, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-010 Application and scope. [Order 76-26, § 296-48-010, filed 8/23/76; Order 75-40, § 296-48-010, filed 12/4/75; Order 75-20, § 296-48-010, filed 7/16/75; Order 70-10, § 296-48-010, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-010, filed 4/27/70; Order 68-4, § 296-48-010, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-011 Conditions of reciprocity. [Order 74-11, § 296-48-011, filed 4/8/74; Order 73-14, § 296-49-001, filed 7/31/73. Formerly WAC 296-49-001 and 296-49-011.] Repealed by Order 76-26, filed 8/23/76.

296-48-012 Agreements with out-of-state jurisdictions. [Order 73-14, § 296-48-012, filed 7/31/73. Formerly WAC 296-49-012.] Repealed by Order 76-26, filed 8/23/76.

296-48-020 Alteration of mobile homes. [Order 76-26, § 296-48-020, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-050 General. [Order 70-2, § 296-48-050, filed 4/27/70; Order 68-4, § 296-48-050, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-051 Definitions. [Order 76-26, § 296-48-051, filed 8/23/76; Order 75-20, § 296-48-051, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-055 Alteration or conversion. [Order 70-10, § 296-48-055, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-055, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-060 Approved. [Order 68-4, § 296-48-060, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-063 Approved listing agency. [Order 70-10, § 296-48-063, filed 9/17/70, effective 1/1/71.] Repealed by Order 75-20, filed 7/16/75.

296-48-065 Approved testing agency. [Order 70-10, § 296-48-065, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-065, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-066 Camping trailer. [Order 70-2, § 296-48-066, filed 4/27/70.] Repealed by Order 75-20, filed 7/16/75.

296-48-070 Dealer. [Order 70-2, § 296-48-070, filed 4/27/70; Order 68-4, § 296-48-070, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-075 Department. [Order 70-2, § 296-48-075, filed 4/27/70; Order 68-4, § 296-48-075, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-080 Equipment. [Order 70-10, § 296-48-080, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-080, filed 4/27/70; Order 68-4, § 296-48-080, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-085 Field technical service. [Order 68-4, § 296-48-085, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-090 Insignia. [Order 70-2, § 296-48-090, filed 4/27/70; Order 68-4, § 296-48-090, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-095 Installations. [Order 70-10, § 296-48-095, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-095, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-100 Labeled. [Order 68-4, § 296-48-100, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-105 Length of vehicles. [Order 68-4, § 296-48-105, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-110 Listed. [Order 68-4, § 296-48-110, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-115 Mobile home. [Order 70-2, § 296-48-115, filed 4/27/70; Order 68-4, § 296-48-115, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-120 Vehicle—Expandable. [Order 68-4, § 296-48-120, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-125 Vehicle—Multiple. [Order 68-4, § 296-48-125, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-130 Model. [Order 70-10, § 296-48-130, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-130, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-135 Model change. [Order 68-4, § 296-48-135, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-140 Model—Group. [Order 68-4, § 296-48-140, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-145 Prohibited sales notice. [Order 68-4, § 296-48-145, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-150 Commercial coach. [Order 70-2, § 296-48-150, filed 4/27/70; Order 68-4, § 296-48-150, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-151 Travel trailer. [Order 68-4, § 296-48-151, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-155 Recreational vehicle. [Order 70-2, § 296-48-155, filed 4/27/70; Order 68-4, § 296-48-155, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-156 Travel trailer. [Order 70-2, § 296-48-156, filed 4/27/70.] Repealed by Order 75-20, filed 7/16/75.

296-48-158 Truck camper. [Order 70-2, § 296-48-158, filed 4/27/70.] Repealed by Order 75-20, filed 7/16/75.

296-48-160 Vehicle. [Order 70-2, § 296-48-160, filed 4/27/70; Order 68-4, § 296-48-160, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-165 Vehicle—Self contained. [Order 70-2, § 296-48-165, filed 4/27/70.] Repealed by Order 75-20, filed 7/16/75.

296-48-200 Air gap. [Order 68-4, § 296-48-200, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-205 Combination compartment. [Order 68-4, § 296-48-205, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-210 Common vent. [Order 68-4, § 296-48-210, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-215 Continuous vent. [Order 68-4, § 296-48-215, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-220 Critical level. [Order 68-4, § 296-48-220, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-225 Diameter. [Order 68-4, § 296-48-225, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-230 Drain coupler. [Order 68-4, § 296-48-230, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-235 Drain outlet. [Order 68-4, § 296-48-235, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-240 Drainage system. [Order 68-4, § 296-48-240, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-245 Flush tank. [Order 68-4, § 296-48-245, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-250 Flush valve. [Order 68-4, § 296-48-250, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-255 Flushometer valve. [Order 68-4, § 296-48-255, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-260 Horizontal pipe. [Order 68-4, § 296-48-260, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-265 Individual vent. [Order 68-4, § 296-48-265, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-270 Longitudinal center. [Order 68-4, § 296-48-270, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-275 Main drain. [Order 68-4, § 296-48-275, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-280 Main vent. [Order 68-4, § 296-48-280, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-285 Plumbing fixture. [Order 68-4, § 296-48-285, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-290 Toilet-mechanical seal. [Order 68-4, § 296-48-290, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-295 Toilet-recirculating chemical. [Order 68-4, § 296-48-295, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-300 Toilet-water flush. [Order 68-4, § 296-48-300, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-305 Trap. [Order 68-4, § 296-48-305, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-310 Trap arm. [Order 68-4, § 296-48-310, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-315 Trap seal. [Order 68-4, § 296-48-315, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-320 Vent system. [Order 68-4, § 296-48-320, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-325 Vertical pipe. [Order 68-4, § 296-48-325, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-330 Waste-holding tank. [Order 68-4, § 296-48-330, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-335 Water distribution system. [Order 68-4, § 296-48-335, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-340 Water supply connection. [Order 68-4, § 296-48-340, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-345 Water storage tank. [Order 68-4, § 296-48-345, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-350 Wet vent. [Order 68-4, § 296-48-350, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-355 Wet-vented drainage system. [Order 68-4, § 296-48-355, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-400 Anti-flooding device. [Order 68-4, § 296-48-400, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-405 Appliance branch piping. [Order 68-4, § 296-48-405, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-410 Appliance compartment. [Order 68-4, § 296-48-410, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-415 Automatic pilot device. [Order 68-4, § 296-48-415, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-420 Automatic pump (oil lifter). [Order 68-4, § 296-48-420, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-425 BTUH. [Order 68-4, § 296-48-425, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-430 Duct. [Order 68-4, § 296-48-430, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-435 Gas appliance connector. [Order 68-4, § 296-48-435, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-440 Gas piping. [Order 68-4, § 296-48-440, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-445 Gas supply connection. [Order 68-4, § 296-48-445, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-450 Gas supply connector. [Order 68-4, § 296-48-450, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-455 Heat-producing appliance. [Order 68-4, § 296-48-455, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-460 Input rating. [Order 68-4, § 296-48-460, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-465 Main gas piping manifold. [Order 68-4, § 296-48-465, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-470 Oil piping system. [Order 68-4, § 296-48-470, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-475 Roof jack. [Order 68-4, § 296-48-475, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-480 Vent connector. [Order 68-4, § 296-48-480, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-485 Water heater. [Order 68-4, § 296-48-485, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-500 A.W.G. [Order 68-4, § 296-48-500, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-501 Accessible (as applied to wiring methods). [Order 70-2, § 296-48-501, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-505 Battery circuit. [Order 70-2, § 296-48-505, filed 4/27/70; Order 68-4, § 296-48-505, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-510 Branch circuit panelboard. [Order 70-2, § 296-48-510, filed 4/27/70; Order 68-4, § 296-48-510, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-515 Low-voltage power circuit. [Order 70-2, § 296-48-515, filed 4/27/70; Order 68-4, § 296-48-515, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-520 National Electrical Code (N.E.C.). [Order 70-2, § 296-48-520, filed 4/27/70; Order 68-4, § 296-48-520, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-525 Power supply assembly. [Order 70-2, § 296-48-525, filed 4/27/70; Order 68-4, § 296-48-525, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-526 Concealed. [Order 70-2, § 296-48-526, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-528 Converter. [Order 70-2, § 296-48-528, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-530 D.C. current. [Order 70-2, § 296-48-530, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-535 Dual supply source. [Order 70-2, § 296-48-535, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-540 Laundry area. [Order 70-2, § 296-48-540, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-545 Transformer. [Order 70-2, § 296-48-545, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-550 Ceiling height. [Order 70-10, § 296-48-550, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-551 Definitions. [Order 73-17, § 296-48-551, filed 10/12/73.] Repealed by Order 76-26, filed 8/23/76.

296-48-555 Construction. [Order 70-10, § 296-48-555, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-560 Dead load. [Order 70-10, § 296-48-560, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-562 Dormitory. [Order 70-10, § 296-48-562, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-565 Dwelling unit. [Order 70-10, § 296-48-565, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-568 Exit. [Order 70-10, § 296-48-568, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-570 Fire safety. [Order 70-10, § 296-48-570, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-572 Superficial floor area. [Order 70-10, § 296-48-572, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-574 Guest room. [Order 70-10, § 296-48-574, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-576 Habitable room. [Order 70-10, § 296-48-576, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-577 Interior finish. [Order 70-10, § 296-48-577, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-578 Kitchen. [Order 70-10, § 296-48-578, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-580 Live load. [Order 70-10, § 296-48-580, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-582 Multiple dwelling unit. [Order 70-10, § 296-48-582, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-584 Occupancy. [Order 70-10, § 296-48-584, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-588 Wall—Bearing. [Order 70-10, § 296-48-588, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-590 Wall—Exterior. [Order 70-10, § 296-48-590, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-592 Wall—Nonbearing. [Order 70-10, § 296-48-592, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-594 Wall—Parapet. [Order 70-10, § 296-48-594, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-596 Wind load. [Order 70-10, § 296-48-596, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-598 Window. [Order 70-10, § 296-48-598, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

296-48-600 Enforcement. [Order 76-26, § 296-48-600, filed 8/23/76; Order 75-20, § 296-48-600, filed 7/16/75; Order 70-10, § 296-48-600, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-600, filed 4/27/70; Order 68-4, § 296-48-600, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-602 State enforcement of federal rules and regulations. [Order 76-26, § 296-48-602, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-604 Limited application of remaining sections. [Order 76-26, § 296-48-604, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-605 Equipment and installations. [Order 75-20, § 296-48-605, filed 7/16/75; Order 70-10, § 296-48-605, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-605, filed 4/27/70; Order 68-4, § 296-48-605, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-610 Department disapproval of listed or labeled equipment and installations. [Order 75-20, § 296-48-610, filed 7/16/75; Order 68-4, § 296-48-610, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-615 Approval of alternates and equivalents. [Order 75-20, § 296-48-615, filed 7/16/75; Order 70-10, § 296-48-615, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-615, filed 4/27/70; Order 68-4, § 296-48-615, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-620 Manufacturer's approval. [Order 75-20, § 296-48-620, filed 7/16/75; Order 68-4, § 296-48-620, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-625 Required inspection. [Order 75-20, § 296-48-625, filed 7/16/75; Order 70-2, § 296-48-625, filed 4/27/70; Order 68-4, § 296-48-625, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-630 Inspection approval. [Order 75-20, § 296-48-630, filed 7/16/75; Order 70-10, § 296-48-630, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-630, filed 4/27/70; Order 68-4, § 296-48-630, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-635 Notice of violations. [Order 75-20, § 296-48-635, filed 7/16/75; Order 68-4, § 296-48-635, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-636 Complaint investigation. [Order 75-20, § 296-48-636, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-640 Action after requested inspection. [Order 68-4, § 296-48-640, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-645 Field technical service. [Order 75-20, § 296-48-645, filed 7/16/75; Order 68-4, § 296-48-645, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-700 Application for plan approval. [Order 68-4, § 296-48-700, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-701 Application for structural system approval. [Order 75-20, § 296-48-701, filed 7/16/75; Order 70-10, § 296-48-701, filed 9/17/70, effective 1/1/71.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-702 Application for electrical, mechanical and plumbing system approval. [Order 75-20, § 296-48-702, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-703 Application for model plan approval. [Order 75-20, § 296-48-703, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-704 Application for in-plant quality control manual approval. [Order 75-20, § 296-48-704, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-705 Plan and specification requirements. [Order 70-10, § 296-48-705, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-705, filed 4/27/70; Order 68-4, § 296-48-705, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-706 Calculations and test procedure. [Order 75-20, § 296-48-706, filed 7/16/75; Order 70-10, § 296-48-706, filed 9/17/70, effective 1/1/71.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-710 Model manufactured in more than one location. [Order 75-20, § 296-48-710, filed 7/16/75; Order 68-4, § 296-48-710, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-715 Out-of-state applicant. [Order 75-20, § 296-48-715, filed 7/16/75; Order 68-4, § 296-48-715, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-720 Nonconforming application and plans. [Order 70-2, § 296-48-720, filed 4/27/70; Order 68-4, § 296-48-720, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-725 Evidence of department's approval. [Order 75-20, § 296-48-725, filed 7/16/75; Order 68-4, § 296-48-725, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-730 Plan approval expiration. [Order 75-20, § 296-48-730, filed 7/16/75; Order 71-11, § 296-48-730, filed 10/8/71; Order 70-2, § 296-48-730, filed 4/27/70; Order 68-4, § 296-48-730, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-735 In-plant quality control. [Order 75-20, § 296-48-735, filed 7/16/75; Order 70-10, § 296-48-735, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-735, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-740 Changes to approved plans. [Order 75-20, § 296-48-740, filed 7/16/75; Order 70-10, § 296-48-740, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-740, filed 4/27/70; Order 68-4, § 296-48-740, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-745 Change of ownership. [Order 68-4, § 296-48-745, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-750 Change of name or address. [Order 68-4, § 296-48-750, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-755 Discontinuance of manufacture. [Order 68-4, § 296-48-755, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-760 Vehicle identification. [Order 75-20, § 296-48-760, filed 7/16/75; Order 70-2, § 296-48-760, filed 4/27/70; Order 68-4, § 296-48-760, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-761 Labels for exterior locations. [Order 75-20, § 296-48-761, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-765 Insignia required. [Order 75-20, § 296-48-765, filed 7/16/75; Order 68-4, § 296-48-765, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-770 Insignia not required. [Order 75-20, § 296-48-770, filed 7/16/75; Order 68-4, § 296-48-770, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-775 Application for insignia pursuant to plan approval. [Order 75-20, § 296-48-775, filed 7/16/75; Order 70-2, § 296-48-775, filed 4/27/70; Order 68-4, § 296-48-775, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-776 Application for insignia pursuant to requested inspection. [Order 75-20, § 296-48-776, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-780 Alteration or conversion. [Order 75-20, § 296-48-780, filed 7/16/75; Order 70-10, § 296-48-780, filed 9/17/70, effective 1/1/71; Order 68-4, § 296-48-780, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-781 Not applicable. [Order 75-20, § 296-48-781, filed 7/16/75; Order 68-4, § 296-48-781, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-782 Application requirements. [Order 75-20, § 296-48-782, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-785 Denial of insignia. [Order 68-4, § 296-48-785, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-790 Insignia removal. [Order 75-20, § 296-48-790, filed 7/16/75; Order 68-4, § 296-48-790, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-795 Lost or damaged insignia. [Order 75-20, § 296-48-795, filed 7/16/75; Order 68-4, § 296-48-795, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-800 Fees. [Order 77-5, § 296-48-800, filed 4/6/77; Order 76-26, § 296-48-800, filed 8/23/76; Order 75-20, § 296-48-800, filed 7/16/75; Order 70-10, § 296-48-800, filed 9/17/70, effective 1/1/71; Order 70-2, § 296-48-800, filed 4/27/70; Order 68-4, § 296-48-800, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-825 Public hearing. [Order 68-4, § 296-48-825, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-830 Aggrievance hearing request. [Order 68-4, § 296-48-830, filed 5/31/68, effective 7/1/68.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-890 Appendix—ANSI A119.1—Copies. [Order 76-26, Appendix (codified as WAC 296-48-890), filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48-905 Minimum standards. [Order 70-2, § 296-48-905, filed 4/27/70; Order 68-4, § 296-48-905, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-910 Rodent proofing. [Order 68-4, § 296-48-910, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-915 Prohibited fittings and practices. [Order 68-4, § 296-48-915, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-920 Alignment of fittings. [Order 68-4, § 296-48-920, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-930 Standards for equipment and installations. [Order 70-2, § 296-48-930, filed 4/27/70; Order 68-4, § 296-48-930, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-940 Strains and stresses. [Order 68-4, § 296-48-940, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-950 Tightness. [Order 68-4, § 296-48-950, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-955 Threaded joints. [Order 68-4, § 296-48-955, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-960 Solder joints. [Order 68-4, § 296-48-960, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-965 Plastic pipe and fittings. [Order 68-4, § 296-48-965, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1005 Pipe. [Order 68-4, § 296-48-1005, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1011 Fittings. [Order 68-4, § 296-48-1010, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1011.] Repealed by Order 76-26, filed 8/23/76.

296-48-1021 Location. [Order 70-2, § 296-48-1021, filed 4/27/70; Order 68-4, § 296-48-1020, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1021.] Repealed by Order 76-26, filed 8/23/76.

296-48-1025 Cap or plug. [Order 68-4, § 296-48-1025, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1031 Clearance from drain outlet. [Order 68-4, § 296-48-1030, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1031.] Repealed by Order 76-26, filed 8/23/76.

296-48-1035 Drain couplers and caps. [Order 68-4, § 296-48-1035, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1041 Drain outlet size. [Order 70-2, § 296-48-1041, filed 4/27/70; Order 68-4, § 296-48-1040, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1041.] Repealed by Order 76-26, filed 8/23/76.

296-48-1051 Fixture load. [Order 68-4, § 296-48-1050, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1051.] Repealed by Order 76-26, filed 8/23/76.

296-48-1055 Wet-vented drainage system. [Order 70-2, § 296-48-1055, filed 4/27/70; Order 68-4, § 296-48-1055, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1061 Side-vent drainage system. [Order 70-2, § 296-48-1061, filed 4/27/70; Order 68-4, § 296-48-1060, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1061.] Repealed by Order 75-20, filed 7/16/75.

296-48-1071 Changes in direction. [Order 68-4, § 296-48-1070, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1071.] Repealed by Order 76-26, filed 8/23/76.

296-48-1075 Grade of horizontal drainage piping. [Order 68-4, § 296-48-1075, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1081 Waste holding tank. [Order 70-2, § 296-48-1081, filed 4/27/70; Order 68-4, § 296-48-1080, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1081.] Repealed by Order 75-20, filed 7/16/75.

296-48-1082 Detachable waste holding system. [Order 71-11, § 296-48-1082, filed 10/8/71.] Repealed by Order 75-20, filed 7/16/75.

296-48-1101 Traps required. [Order 68-4, § 296-48-1100, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1101.] Repealed by Order 76-26, filed 8/23/76.

296-48-1105 Dual fixtures. [Order 70-2, § 296-48-1105, filed 4/27/70; Order 68-4, § 296-48-1105, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1111 Prohibited traps. [Order 68-4, § 296-48-1110, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1111.] Repealed by Order 76-26, filed 8/23/76.

296-48-1115 Material and design. [Order 68-4, § 296-48-1115, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1121 Trap seal. [Order 68-4, § 296-48-1120, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1121.] Repealed by Order 76-26, filed 8/23/76.

296-48-1125 Size. [Order 68-4, § 296-48-1125, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1131 Location. [Order 68-4, § 296-48-1130, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1131.] Repealed by Order 76-26, filed 8/23/76.

296-48-1135 Distance from trap to vent. [Order 68-4, § 296-48-1135, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1141 Length of tailpiece. [Order 68-4, § 296-48-1140, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1141.] Repealed by Order 76-26, filed 8/23/76.

296-48-1151 Grade of trap arm. [Order 68-4, § 296-48-1150, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1151.] Repealed by Order 76-26, filed 8/23/76.

296-48-1155 Trap arm offset. [Order 68-4, § 296-48-1155, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1161 Concealed traps. [Order 68-4, § 296-48-1160, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1161.] Repealed by Order 76-26, filed 8/23/76.

296-48-1165 Protection. [Order 68-4, § 296-48-1165, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1175 Location of cleanout fittings. [Order 68-4, § 296-48-1175, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1181 Access to cleanouts. [Order 68-4, § 296-48-1180, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1181.] Repealed by Order 76-26, filed 8/23/76.

296-48-1185 Material. [Order 68-4, § 296-48-1185, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1191 Design. [Order 68-4, § 296-48-1190, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1191.] Repealed by Order 76-26, filed 8/23/76.

296-48-1201 General. [Order 68-4, § 296-48-1200, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1201.] Repealed by Order 76-26, filed 8/23/76.

296-48-1205 Pipe. [Order 68-4, § 296-48-1205, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1211 Fittings. [Order 68-4, § 296-48-1210, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1211.] Repealed by Order 76-26, filed 8/23/76.

296-48-1215 Main vent. [Order 68-4, § 296-48-1215, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1221 Combination compartment. [Order 68-4, § 296-48-1220, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1221.] Repealed by Order 75-20, filed 7/16/75.

296-48-1225 Individual vents. [Order 70-2, § 296-48-1225, filed 4/27/70; Order 68-4, § 296-48-1225, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1231 Common vent. [Order 68-4, § 296-48-1230, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1231.] Repealed by Order 76-26, filed 8/23/76.

296-48-1235 Intersecting vents. [Order 68-4, § 296-48-1235, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1241 Horizontal vents. [Order 68-4, § 296-48-1240, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1241.] Repealed by Order 76-26, filed 8/23/76.

296-48-1245 Grade. [Order 68-4, § 296-48-1245, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1251 Roof extension. [Order 68-4, § 296-48-1250, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1251.] Repealed by Order 76-26, filed 8/23/76.

296-48-1255 Flashing. [Order 68-4, § 296-48-1255, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1305 Piping material. [Order 68-4, § 296-48-1305, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1311 Fittings. [Order 68-4, § 296-48-1310, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1311.] Repealed by Order 76-26, filed 8/23/76.

296-48-1315 Prohibited materials. [Order 68-4, § 296-48-1315, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1325 Screw pipe. [Order 68-4, § 296-48-1325, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1331 Solder fittings. [Order 68-4, § 296-48-1330, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1331.] Repealed by Order 76-26, filed 8/23/76.

296-48-1335 Flared fittings. [Order 68-4, § 296-48-1335, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1341 Water supply piping. [Order 68-4, § 296-48-1340, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1341.] Repealed by Order 76-26, filed 8/23/76.

296-48-1345 Minimum sizes. [Order 70-2, § 296-48-1345, filed 4/27/70; Order 68-4, § 296-48-1345, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1351 Sizing procedure. [Order 68-4, § 296-48-1350, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1351.] Repealed by Order 76-26, filed 8/23/76.

296-48-1355 Valves. [Order 68-4, § 296-48-1355, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1361 Location. [Order 70-2, § 296-48-1361, filed 4/27/70; Order 68-4, § 296-48-1360, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1361.] Repealed by Order 76-26, filed 8/23/76.

296-48-1365 Prohibited connections. [Order 68-4, § 296-48-1365, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1371 Supply outlets. [Order 68-4, § 296-48-1370, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1371.] Repealed by Order 76-26, filed 8/23/76.

296-48-1375 Appliance connections. [Order 68-4, § 296-48-1375, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1381 Flushometer valves or manually-operated flush valves. [Order 68-4, § 296-48-1380, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1381.] Repealed by Order 76-26, filed 8/23/76.

296-48-1385 Flush tanks. [Order 68-4, § 296-48-1385, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1391 Backflow preventer. [Order 68-4, § 296-48-1390, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1391.] Repealed by Order 75-20, filed 7/16/75.

296-48-1395 Mechanical seal toilet valves. [Order 68-4, § 296-48-1395, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-1405 Relief valves. [Order 70-2, § 296-48-1405, filed 4/27/70; Order 68-4, § 296-48-1405, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1411 Water tanks. [Order 68-4, § 296-48-1410, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1411.] Repealed by Order 76-26, filed 8/23/76.

296-48-1451 Quality of fixtures. [Order 68-4, § 296-48-1450, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1451.] Repealed by Order 76-26, filed 8/23/76.

296-48-1455 Strainers. [Order 68-4, § 296-48-1455, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1461 Fixture connections. [Order 70-2, § 296-48-1461, filed 4/27/70; Order 68-4, § 296-48-1460, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1461.] Repealed by Order 76-26, filed 8/23/76.

296-48-1465 Drain connections. [Order 68-4, § 296-48-1465, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1471 Concealed connections. [Order 68-4, § 296-48-1470, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1471.] Repealed by Order 76-26, filed 8/23/76.

296-48-1475 Directional fitting. [Order 68-4, § 296-48-1475, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1481 Toilet. [Order 68-4, § 296-48-1480, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1481.] Repealed by Order 76-26, filed 8/23/76.

296-48-1485 Toilet connection. [Order 70-2, § 296-48-1485, filed 4/27/70; Order 68-4, § 296-48-1485, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1491 Shower stalls. [Order 68-4, § 296-48-1490, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1491.] Repealed by Order 76-26, filed 8/23/76.

296-48-1495 Shower and tub enclosures. [Order 68-4, § 296-48-1495, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1501 Dishwashing machines. [Order 68-4, § 296-48-1500, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1501.] Repealed by Order 76-26, filed 8/23/76.

296-48-1505 Clotheswashing machines. [Order 71-11, § 296-48-1505, filed 10/8/71; Order 68-4, § 296-48-1505, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1511 Access. [Order 68-4, § 296-48-1510, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1511.] Repealed by Order 76-26, filed 8/23/76.

296-48-1515 Alignment. [Order 68-4, § 296-48-1515, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1521 Brackets. [Order 68-4, § 296-48-1520, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1521.] Repealed by Order 76-26, filed 8/23/76.

296-48-1551 Water piping system. [Order 68-4, § 296-48-1550, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1551.] Repealed by Order 76-26, filed 8/23/76.

296-48-1555 Drainage and vent system. [Order 68-4, § 296-48-1555, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1561 Fixtures. [Order 68-4, § 296-48-1560, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1561.] Repealed by Order 76-26, filed 8/23/76.

296-48-1601 Standards for appliances and equipment. [Order 68-4, § 296-48-1600, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1601.] Repealed by Order 76-26, filed 8/23/76.

296-48-1605 Capacity of containers. [Order 70-2, § 296-48-1605, filed 4/27/70; Order 68-4, § 296-48-1605, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1611 Construction of containers. [Order 68-4, § 296-48-1610, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1611.] Repealed by Order 76-26, filed 8/23/76.

296-48-1615 Marking of containers. [Order 68-4, § 296-48-1615, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1621 Location and enclosure of containers and systems. [Order 68-4, § 296-48-1620, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1621.] Repealed by Order 76-26, filed 8/23/76.

296-48-1625 Valves, connectors and accessories. [Order 68-4, § 296-48-1625, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1631 Safety devices. [Order 68-4, § 296-48-1630, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1631.] Repealed by Order 76-26, filed 8/23/76.

296-48-1635 Container mounting. [Order 68-4, § 296-48-1635, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1641 System design and service line pressure. [Order 68-4, § 296-48-1640, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1641.] Repealed by Order 76-26, filed 8/23/76.

296-48-1681 General. [Order 70-2, § 296-48-1681, filed 4/27/70; Order 68-4, § 296-48-1680, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1681.] Repealed by Order 76-26, filed 8/23/76.

296-48-1685 Materials. [Order 68-4, § 296-48-1685, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1691 Piping design. [Order 68-4, § 296-48-1690, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1691.] Repealed by Order 76-26, filed 8/23/76.

296-48-1695 Expandable or multiple vehicles. [Order 68-4, § 296-48-1695, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1701 Gas pipe sizing. [Order 68-4, § 296-48-1700, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1701.] Repealed by Order 76-26, filed 8/23/76.

296-48-1705 Joints for gas piping. [Order 68-4, § 296-48-1705, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1711 Joints for tubing. [Order 68-4, § 296-48-1710, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1711.] Repealed by Order 76-26, filed 8/23/76.

296-48-1715 Pipe joint compound. [Order 68-4, § 296-48-1715, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1721 Concealed tubing. [Order 68-4, § 296-48-1720, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1721.] Repealed by Order 76-26, filed 8/23/76.

296-48-1725 Concealed joints. [Order 68-4, § 296-48-1725, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1731 Location of gas supply connection. [Order 70-2, § 296-48-1731, filed 4/27/70; Order 68-4, § 296-48-1730, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1731.] Repealed by Order 76-26, filed 8/23/76.

296-48-1735 Identification of gas supply connections. [Order 68-4, § 296-48-1735, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1741 Gas supply connectors. [Order 68-4, § 296-48-1740, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1741.] Repealed by Order 76-26, filed 8/23/76.

296-48-1745 Appliance connections. [Order 68-4, § 296-48-1745, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1746 Exterior appliance connection. [Order 68-4, § 296-48-1746, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1751 Valves. [Order 68-4, § 296-48-1750, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1751.] Repealed by Order 76-26, filed 8/23/76.

296-48-1755 Gas supply connection cap. [Order 68-4, § 296-48-1755, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1761 Electrical ground. [Order 68-4, § 296-48-1760, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1761.] Repealed by Order 76-26, filed 8/23/76.

296-48-1765 Couplings. [Order 68-4, § 296-48-1765, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1771 Hangers and supports. [Order 68-4, § 296-48-1770, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1771.] Repealed by Order 76-26, filed 8/23/76.

296-48-1775 Testing. [Order 68-4, § 296-48-1775, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1781 Leaks. [Order 68-4, § 296-48-1780, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1781.] Repealed by Order 76-26, filed 8/23/76.

296-48-1801 General. [Order 68-4, § 296-48-1800, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1801.] Repealed by Order 76-26, filed 8/23/76.

296-48-1805 Expandable or multiple vehicles. [Order 68-4, § 296-48-1805, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1811 Materials. [Order 68-4, § 296-48-1810, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1811.] Repealed by Order 76-26, filed 8/23/76.

296-48-1815 Size of oil piping. [Order 68-4, § 296-48-1815, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1821 Joints for oil piping. [Order 68-4, § 296-48-1820, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1821.] Repealed by Order 76-26, filed 8/23/76.

296-48-1825 Pipe joint compound. [Order 68-4, § 296-48-1825, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1831 Couplings. [Order 68-4, § 296-48-1830, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1831.] Repealed by Order 76-26, filed 8/23/76.

296-48-1835 Oil tanks—Installation. [Order 68-4, § 296-48-1835, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1841 Auxiliary oil storage tanks. [Order 68-4, § 296-48-1840, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1841.] Repealed by Order 76-26, filed 8/23/76.

296-48-1845 Tank compartment. [Order 68-4, § 296-48-1845, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1851 Shutoff valve. [Order 68-4, § 296-48-1850, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1851.] Repealed by Order 76-26, filed 8/23/76.

296-48-1855 Fuel oil filter. [Order 68-4, § 296-48-1855, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1901 General. [Order 71-11, § 296-48-1901, filed 10/8/71; Order 68-4, § 296-48-1900, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1901.] Repealed by Order 76-26, filed 8/23/76.

296-48-1902 Gas clothes dryers. [Order 71-11, § 296-48-1902, filed 10/8/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-1905 Vented wall furnace installation. [Order 68-4, § 296-48-1905, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1911 Type of fuel. [Order 68-4, § 296-48-1910, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1911.] Repealed by Order 76-26, filed 8/23/76.

296-48-1921 Vents and venting. [Order 68-4, § 296-48-1920, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1921.] Repealed by Order 76-26, filed 8/23/76.

296-48-1925 Cooking area ventilation. [Order 68-4, § 296-48-1925, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1931 Safety devices—Appliances—Types. [Order 70-2, § 296-48-1931, filed 4/27/70; Order 68-4, § 296-48-1930, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1931.] Repealed by Order 76-26, filed 8/23/76.

296-48-1935 Installation—Appliances—General. [Order 68-4, § 296-48-1935, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1941 Location. [Order 68-4, § 296-48-1940, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1941.] Repealed by Order 76-26, filed 8/23/76.

296-48-1945 Accessibility. [Order 70-2, § 296-48-1945, filed 4/27/70; Order 68-4, § 296-48-1945, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1951 Operating instructions. [Order 68-4, § 296-48-1950, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1951.] Repealed by Order 76-26, filed 8/23/76.

296-48-1955 Clearances—General. [Order 68-4, § 296-48-1955, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1961 Clearances—Ranges. [Order 68-4, § 296-48-1960, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1961.] Repealed by Order 76-26, filed 8/23/76.

296-48-1985 Material. [Order 68-4, § 296-48-1985, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-1991 Construction and installation. [Order 68-4, § 296-48-1990, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-1991.] Repealed by Order 76-26, filed 8/23/76.

296-48-1995 Expandable or multiple vehicles. [Order 68-4, § 296-48-1995, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-2001 Sizing of ducts. [Order 68-4, § 296-48-2000, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2001.] Repealed by Order 76-26, filed 8/23/76.

296-48-2011 Airtightness of supply duct system. [Order 68-4, § 296-48-2010, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2011.] Repealed by Order 76-26, filed 8/23/76.

296-48-2015 Test equipment. [Order 68-4, § 296-48-2015, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-2021 Required air. [Order 68-4, § 296-48-2020, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2021.] Repealed by Order 76-26, filed 8/23/76.

296-48-2025 Fresh air openings. [Order 68-4, § 296-48-2025, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-2031 Location of openings. [Order 68-4, § 296-48-2030, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2031.] Repealed by Order 76-26, filed 8/23/76.

296-48-2041 Return air openings. [Order 68-4, § 296-48-2040, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2041.] Repealed by Order 76-26, filed 8/23/76.

296-48-2045 Return air ducts. [Order 68-4, § 296-48-2045, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-2051 Permanent openings. [Order 68-4, § 296-48-2050, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-2051.] Repealed by Order 76-26, filed 8/23/76.

296-48-3001 General. [Order 70-2, § 296-48-3001, filed 4/27/70; Order 68-4, § 296-48-3000, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3001.] Repealed by Order 76-26, filed 8/23/76.

296-48-3011 Battery circuits. [Order 70-2, § 296-48-3011, filed 4/27/70; Order 68-4, § 296-48-3010, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3011.] Repealed by Order 75-20, filed 7/16/75.

296-48-3015 Wiring materials for low-voltage circuits for recreational vehicles. [Order 70-2, § 296-48-3015, filed 4/27/70; Order 68-4, § 296-48-3015, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-3019 Wiring methods. [Order 70-2, § 296-48-3019, filed 4/27/70; Order 68-4, § 296-48-3020, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3019.] Repealed by Order 75-20, filed 7/16/75.

296-48-3021 Generator installations. [Order 70-2, § 296-48-3021, filed 4/27/70; Order 68-4, § 296-48-3021, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-3025 Overcurrent protection. [Order 70-2, § 296-48-3025, filed 4/27/70; Order 68-4, § 296-48-3025, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-3031 Combination electrical systems. [Order 70-2, § 296-48-3031, filed 4/27/70; Order 68-4, § 296-48-3030, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3031.] Repealed by Order 75-20, filed 7/16/75.

296-48-3041 Separation. [Order 68-4, § 296-48-3040, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3041.] Repealed by Order 75-20, filed 7/16/75.

296-48-3045 Protection and insulation. [Order 68-4, § 296-48-3045, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-3051 Overcurrent protection and mounting. [Order 68-4, § 296-48-3050, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3051.] Repealed by Order 75-20, filed 7/16/75.

296-48-3055 Identification. [Order 70-2, § 296-48-3055, filed 4/27/70; Order 68-4, § 296-48-3055, filed 5/31/68, effective 7/1/68.] Repealed by Order 75-20, filed 7/16/75.

296-48-3065 Application. [Order 70-2, § 296-48-3065, filed 4/27/70; Order 68-4, § 296-48-3065, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-3066 Materials and equipment. [Order 70-2, § 296-48-3066, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-3071 Receptacle outlets required. [Order 70-2, § 296-48-3071, filed 4/27/70; Order 68-4, § 296-48-3070, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3071.] Repealed by Order 76-26, filed 8/23/76.

296-48-3072 Ground-fault circuit protection. [Order 75-4, § 296-48-3072, filed 3/5/75.] Repealed by Order 76-26, filed 8/23/76.

296-48-3075 Branch circuits required. [Order 71-11, § 296-48-3075, filed 10/8/71; Order 70-2, § 296-48-3075, filed 4/27/70; Order 68-4, § 296-48-3075, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-3081 Calculations for lighting and appliance load. [Order 70-2, § 296-48-3081, filed 4/27/70; Order 68-4, § 296-48-3080, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3081.] Repealed by Order 76-26, filed 8/23/76.

296-48-3085 Branch circuit panelboard. [Order 70-2, § 296-48-3085, filed 4/27/70; Order 68-4, § 296-48-3085, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-3091 Identification. [Order 68-4, § 296-48-3090, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-3091.] Repealed by Order 76-26, filed 8/23/76.

296-48-3095 Circuit breakers and fuses. [Order 68-4, § 296-48-3095, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-3098 Conductors in outlet boxes. [Order 70-2, § 296-48-3098, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-4001 General. [Order 68-4, § 296-48-4000, filed 5/3/68, effective 7/1/68. Codified as WAC 296-48-4001.] Repealed by Order 76-26, filed 8/23/76.

296-48-4005 Power supply assembly. [Order 70-2, § 296-48-4005, filed 4/27/70; Order 68-4, § 296-48-4005, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4011 Attachment-plug cap. [Order 70-2, § 296-48-4011, filed 4/27/70; Order 68-4, § 296-48-4010, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4011.] Repealed by Order 76-26, filed 8/23/76.

296-48-4015 Overhead and undervehicle feeder assemblies. [Order 70-2, § 296-48-4015, filed 4/27/70; Order 68-4, § 296-48-4015, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4021 Identification of power supply connection. [Order 70-2, § 296-48-4021, filed 4/27/70; Order 68-4, § 296-48-4020, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4021.] Repealed by Order 76-26, filed 8/23/76.

296-48-4025 Location power supply assembly. [Order 70-2, § 296-48-4025, filed 4/27/70; Order 68-4, § 296-48-4025, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4031 Location—Permanent wiring method. [Order 68-4, § 296-48-4030, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4031.] Repealed by Order 76-26, filed 8/23/76.

296-48-4051 Protection and installation. [Order 70-2, § 296-48-4051, filed 4/27/70; Order 68-4, § 296-48-4050, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4051.] Repealed by Order 76-26, filed 8/23/76.

296-48-4055 Expandable or multiple vehicles. [Order 70-2, § 296-48-4055, filed 4/27/70; Order 68-4, § 296-48-4055, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4061 Under chassis wiring (exposed to weather). [Order 70-2, § 296-48-4061, filed 4/27/70; Order 68-4, § 296-48-

4060, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4061.] Repealed by Order 76-26, filed 8/23/76.

296-48-4062 Conductors and outlet boxes. [Order 70-2, § 296-48-4062, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-4063 Painting of wiring. [Order 70-2, § 296-48-4063, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-4064 Connection of terminals and splices. [Order 70-2, § 296-48-4064, filed 4/27/70; Order 68-4, § 296-48-4065, filed 5/31/68, effective 7/1/68. Formerly WAC 296-48-4065 relating to splices in grounding. Conductor now codified as WAC 296-48-4064 (part).] Repealed by Order 76-26, filed 8/23/76.

296-48-4065 Wall switches. [Order 70-2, § 296-48-4065, filed 4/27/70. Formerly WAC 296-48-4065 relating to splices in grounding conductor see WAC 296-48-4064.] Repealed by Order 76-26, filed 8/23/76.

296-48-4066 Receptacles. [Order 70-2, § 296-48-4066, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-4075 Lighting fixtures. [Order 68-4, § 296-48-4075, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4081 Shower fixtures. [Order 70-2, § 296-48-4081, filed 4/27/70; Order 68-4, § 296-48-4080, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4081.] Repealed by Order 76-26, filed 8/23/76.

296-48-4085 Equipment mounting. [Order 68-4, § 296-48-4085, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-4091 Outdoor fixtures and equipment. [Order 68-4, § 296-48-4090, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-4091.] Repealed by Order 76-26, filed 8/23/76.

296-48-5001 Panelboard grounding. [Order 70-2, § 296-48-5001, filed 4/27/70; Order 68-4, § 296-48-5000, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-5001.] Repealed by Order 76-26, filed 8/23/76.

296-48-5005 Grounded conductor (neutral). [Order 68-4, § 296-48-5005, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-5011 Appliance grounding. [Order 68-4, § 296-48-5010, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-5011.] Repealed by Order 76-26, filed 8/23/76.

296-48-5015 Interior grounding. [Order 68-4, § 296-48-5015, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-5021 Grounding of noncurrent-carrying metal parts. [Order 68-4, § 296-48-5020, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-5021.] Repealed by Order 76-26, filed 8/23/76.

296-48-5025 120-volt or 120/240-volt. [Order 70-2, § 296-48-5025, filed 4/27/70; Order 68-4, § 296-48-5025, filed 5/31/68, effective 7/1/68.] Repealed by Order 76-26, filed 8/23/76.

296-48-5031 Battery and low voltage circuits. [Order 70-2, § 296-48-5031, filed 4/27/70; Order 68-4, § 296-48-5030, filed 5/31/68, effective 7/1/68. Codified as WAC 296-48-5031.] Repealed by Order 75-20, filed 7/16/75.

296-48-6001 Examination of equipment for safety. [Order 70-2, § 296-48-6001, filed 4/27/70.] Repealed by Order 76-26, filed 8/23/76.

296-48-6101 Minimum requirements. [Order 70-10, § 296-48-6101, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6111 Structural analysis. [Order 70-10, § 296-48-6111, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6115 Standards for equipment installations. [Order 70-10, § 296-48-6115, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6121 Structural requirements. [Order 70-10, § 296-48-6121, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6125 Design loads. [Order 70-10, § 296-48-6125, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6131 Wind loads. [Order 70-10, § 296-48-6131, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6135 Roof loads. [Order 70-10, § 296-48-6135, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6141 Walls. [Order 70-10, § 296-48-6141, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6145 Firestopping. [Order 70-10, § 296-48-6145, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6151 Interior partition. [Order 70-10, § 296-48-6151, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6155 Floors. [Order 70-10, § 296-48-6155, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6161 Design load deflections. [Order 70-10, § 296-48-6161, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6165 Ultimate load tests. [Order 70-10, § 296-48-6165, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6171 Chassis assembly. [Order 70-10, § 296-48-6171, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6175 Basic structural integrity. [Order 70-10, § 296-48-6175, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6181 Roof rafter or truss test procedure. [Order 70-10, § 296-48-6181, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6185 Weather resistance. [Order 70-10, § 296-48-6185, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6191 Interior walls, partitions and ceilings. [Order 73-17, § 296-48-6191, filed 10/12/73; Order 70-10, § 296-48-6191, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6195 Rodent resistance. [Order 70-10, § 296-48-6195, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6201 Heat loss. [Order 73-17, § 296-48-6201, filed 10/12/73; Order 70-10, § 296-48-6201, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6205 Room and hallway sizes. [Order 73-17, § 296-48-6205, filed 10/12/73; Order 70-10, § 296-48-6205, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6211 Ceiling height. [Order 73-17, § 296-48-6211, filed 10/12/73; Order 70-10, § 296-48-6211, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6215 Light and ventilation. [Order 73-17, § 296-48-6215, filed 10/12/73; Order 71-11, § 296-48-6215, filed 10/8/71; Order 70-10, § 296-48-6215, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6221 Exit facilities. [Order 73-17, § 296-48-6221, filed 10/12/73; Order 71-11, § 296-48-6221, filed 10/8/71; Order 70-10, § 296-48-6221, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6222 Interior privacy. [Order 73-17, § 296-48-6222, filed 10/12/73.] Repealed by Order 76-26, filed 8/23/76.

296-48-6223 Interior passage. [Order 73-17, § 296-48-6223, filed 10/12/73.] Repealed by Order 76-26, filed 8/23/76.

296-48-6225 Windows. [Order 73-17, § 296-48-6225, filed 10/12/73; Order 70-10, § 296-48-6225, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

296-48-6226 Mobile home fire warning equipment. [Order 73-17, § 296-48-6226, filed 10/12/73.] Repealed by Order 76-26, filed 8/23/76.

Appendix A Flexural rigidity chart. Figures 1, 2, 3, and 4. [Order 70-10, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

Table 1 Accepted engineering practice standards. [Order 70-10, filed 9/17/70, effective 1/1/71.] Repealed by Order 76-26, filed 8/23/76.

Appendix B Heat loss. [Order 70-10, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

Appendix C Table 1 maximum allowable areas of glass table 2 adjustment factors relative resistance to wind loads table 3 glass dimensional tolerances table 4 glazing relative to specific hazardous locations. [Order 70-10, filed 9/17/70, effective 1/1/71.] Repealed by Order 73-17, filed 10/12/73.

Chapter 296-48A
STANDARDS FOR RECREATIONAL VEHICLES

296-48A-001 Standards for recreational vehicles. [Order 75-21, § 296-48A-001, filed 7/16/75.] Repealed by 82-09-053

(Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-200 Individual vents. [Order 75-21, § 296-48A-200, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-400 Sizing and capacity of gas piping. [Order 75-21, § 296-48A-400, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-405 Description of tables. [Order 75-21, § 296-48A-405, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-410 Use of capacity tables. [Order 75-21, § 296-48A-410, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-600 Low-voltage wiring materials. [Order 75-21, § 296-48A-600, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-605 Power-supply assembly. [Order 75-21, § 296-48A-605, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-610 Ground-fault circuit protection. [Order 75-21, § 296-48A-610, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-615 Labeling at the electrical entrance. [Order 75-21, § 296-48A-615, filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-700 Administrative—Authority for recreational vehicle code. [Order 76-26, § 296-48A-700, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-750 Conditions of reciprocity. [Order 76-26, § 296-48A-750, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-755 Agreements with out-of-state jurisdictions. [Order 76-26, § 296-48A-755, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-770 Definitions. [Order 76-26, § 296-48A-770, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-780 Enforcement. [Order 76-26, § 296-48A-780, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-800 Approvals, inspections, quality control, identification. [Order 76-26, § 296-48A-800, filed 8/23/76.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

296-48A-990 Appendix. [Order 75-21, Appendix (codified as WAC 296-48A-990), filed 7/16/75.] Repealed by 82-09-053 (Order 82-13), filed 4/16/82. Statutory Authority: RCW 43.22.340.

Chapter 296-48B
STANDARDS FOR COMMERCIAL COACHES

296-48B-001 Administrative authority for commercial coach code. [Order 76-26, § 296-48B-001, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-002 Administrative authority for commercial coach code—Enforcement. [Order 76-26, § 296-48B-002, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-005 General. [Order 75-40, § 296-48B-005, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-006 Approvals, inspections, quality control, identification. [Order 76-26, § 296-48B-006, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-009 Definitions incorporated by reference. [Order 76-26, § 296-48B-009, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-010 Definitions. [Order 76-26, § 296-48B-010, filed 8/23/76; Order 75-40, § 296-48B-010, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-015 Minimum requirements. [Order 75-40, § 296-48B-015, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-020 Structural analysis. [Order 75-40, § 296-48B-020, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-025 Standards for equipment and installations. [Order 76-26, § 296-48B-025, filed 8/23/76; Order 75-40, § 296-48B-025, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-030 Structural design—Requirements. [Order 75-40, § 296-48B-030, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-032 New materials and methods. [Order 75-40, § 296-48B-032, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-035 Design dead loads. [Order 75-40, § 296-48B-035, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-040 Design live loads. [Order 76-26, § 296-48B-040, filed 8/23/76; Order 75-40, § 296-48B-040, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-050 Standard wind. [Order 75-40, § 296-48B-050, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-055 Roof loads. [Order 75-40, § 296-48B-055, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-060 Snow loads. [Order 75-40, § 296-48B-060, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-065 Posting design loads. [Order 75-40, § 296-48B-065, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-068 Design load deflection. [Order 75-40, § 296-48B-068, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-070 Fastening of structural systems. [Order 75-40, § 296-48B-070, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-075 Instructions. [Order 75-40, § 296-48B-075, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-080 Walls. [Order 75-40, § 296-48B-080, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-085 Drilling or notching of wood wall structural members. [Order 75-40, § 296-48B-085, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-090 Firestopping. [Order 76-26, § 296-48B-090, filed 8/23/76; Order 75-40, § 296-48B-090, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-095 Interior walls and partitions. [Order 75-40, § 296-48B-095, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-100 Floors. [Order 76-26, § 296-48B-100, filed 8/23/76; Order 75-40, § 296-48B-100, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-105 Drilling or notching of wood joist structural members. [Order 75-40, § 296-48B-105, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-115 Roof trusses. [Order 75-40, § 296-48B-115, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-120 Structural load test. [Order 75-40, § 296-48B-120, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-125 Roof coverings. [Order 76-26, § 296-48B-125, filed 8/23/76; Order 75-40, § 296-48B-125, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-140 Flame-spread limitations and combustibility. [Order 76-26, § 296-48B-140, filed 8/23/76; Order 75-40, § 296-48B-140, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-142 Kitchen cabinet protection. [Order 75-40, § 296-48B-142, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-143 Carpeting. [Order 75-40, § 296-48B-143, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-145 Undervehicle closure material. [Order 75-40, § 296-48B-145, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-150 Heat loss. [Order 75-40, § 296-48B-150, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-160 Bathroom. [Order 75-40, § 296-48B-160, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-165 Glass and glazed openings. [Order 75-40, § 296-48B-165, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-175 Fire warning equipment—Automatic smoke detectors. [Order 75-40, § 296-48B-175, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-177 Room and hallway sizes. [Order 76-26, § 296-48B-177, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-178 Ceiling height. [Order 76-26, § 296-48B-178, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-179 Light and ventilation. [Order 76-26, § 296-48B-179, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-180 Exit facilities. [Order 76-26, § 296-48B-180, filed 8/23/76; Order 75-40, § 296-48B-180, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-185 Weather resistance. [Order 76-26, § 296-48B-185, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-190 Windstorm protection. [Order 76-26, § 296-48B-190, filed 8/23/76; Order 75-40, § 296-48B-190, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-19001 Table—Ties required per side of single wide (1) commercial coach. [Order 76-26, Table (codified as WAC 296-48B-19001), filed 8/23/76; Order 75-40, Table, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-19002 Table I—Appendix CC—Accepted engineering practice standards. [Order 75-40, Table I—Appendix CC (codified as WAC 296-48B-19002), filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-19003 Table II—Appendix CC—Glazing in hazardous locations. [Order 75-40, Table II—Appendix CC (codified as WAC 296-48B-19003), filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-19004 Table III—Appendix CC—Minimum uniformly distributed live loads. [Order 75-40, Table III—Appendix CC (codified as WAC 296-48B-19004), filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-19005 Table IV—Appendix CC—Concentrated live loads. [Order 75-40, Table IV—Appendix CC (codified as WAC 296-48B-19005), filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-193 Interior privacy. [Order 76-26, § 296-48B-193, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-196 Interior passage. [Order 76-26, § 296-48B-196, filed 8/23/76.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-200 Electrical—General. [Order 75-40, § 296-48B-200, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-210 Definitions. [Order 75-40, § 296-48B-210, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-215 Low-voltage systems—Low-voltage circuits. [Order 75-40, § 296-48B-215, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-220 Wiring materials—Combination electrical systems. [Order 75-40, § 296-48B-220, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-225 Generator installations—Mounting. [Order 75-40, § 296-48B-225, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-230 Calculations—Branch circuit and feeder calculations. [Order 75-40, § 296-48B-230, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-235 Disconnecting means and branch-circuit protective equipment—General. [Order 75-40, § 296-48B-235, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-245 Power supply—Feeder assembly equipment. [Order 75-40, § 296-48B-245, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-250 Identification of feeder assembly connection. [Order 75-40, § 296-48B-250, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-255 Wiring methods—Wiring of expandable or multiple units. [Order 75-40, § 296-48B-255, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-260 Under-chassis wiring. [Order 75-40, § 296-48B-260, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-265 Rodent resistance. [Order 75-40, § 296-48B-265, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-270 Electrical equipment—Lighting fixtures. [Order 75-40, § 296-48B-270, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-275 Equipment mounting. [Order 75-40, § 296-48B-275, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-280 Outdoor outlets, fixtures, air cooling equipment, etc. [Order 75-40, § 296-48B-280, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-285 Grounding—General. [Order 75-40, § 296-48B-285, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-290 Switch and receptacle plates. [Order 75-40, § 296-48B-290, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-295 Testing—Dielectric strength test. [Order 75-40, § 296-48B-295, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-400 Mechanical—General. [Order 75-40, § 296-48B-400, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-405 Mechanical—Definitions. [Order 75-40, § 296-48B-405, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-410 LPG equipment and installations—Construction of containers. [Order 75-40, § 296-48B-410, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-415 Location of LP-Gas containers and systems. [Order 75-40, § 296-48B-415, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-420 LP-Gas container valves and accessories. [Order 75-40, § 296-48B-420, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-425 LP-Gas safety devices. [Order 75-40, § 296-48B-425, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-430 LP-Gas system enclosure and mounting. [Order 75-40, § 296-48B-430, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-435 LP-Gas system design and service line pressure. [Order 75-40, § 296-48B-435, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-440 Electrical equipment. [Order 75-40, § 296-48B-440, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-445 Gas piping systems—General. [Order 75-40, § 296-48B-445, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-450 Piping design. [Order 75-40, § 296-48B-450, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-455 Materials. [Order 75-40, § 296-48B-455, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-460 Expandable or multiple commercial coaches. [Order 75-40, § 296-48B-460, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-465 System sizing—Gas pipe sizing. [Order 75-40, § 296-48B-465, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-467 Sizing and capacity of gas piping. [Order 75-40, § 296-48B-467, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-468 Description of tables. [Order 75-40, § 296-48B-468, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-469 Use of capacity tables. [Order 75-40, § 296-48B-469, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-46901 Table H-2—Part I and Part II. [Order 75-40, Table H-2—Part I and Part II (codified as WAC 296-48B-46901), filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-470 Joints and installation—Joints for gas pipe. [Order 75-40, § 296-48B-470, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-475 Tubing joints. [Order 75-40, § 296-48B-475, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-480 Concealed tubing. [Order 75-40, § 296-48B-480, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-485 Pipe-joint compound. [Order 75-40, § 296-48B-485, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-490 Concealed joints. [Order 75-40, § 296-48B-490, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-500 Hangers and supports. [Order 75-40, § 296-48B-500, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-505 Electrical ground. [Order 75-40, § 296-48B-505, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-510 Identification of gas supply connections. [Order 75-40, § 296-48B-510, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-515 Gas piping system openings. [Order 75-40, § 296-48B-515, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-520 Appliance connections. [Order 75-40, § 296-48B-520, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-525 Valves. [Order 75-40, § 296-48B-525, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-530 Testing for leakage—Before appliances are connected. [Order 75-40, § 296-48B-530, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-535 After appliances are connected. [Order 75-40, § 296-48B-535, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-540 Rodent resistance. [Order 75-40, § 296-48B-540, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-550 Oil piping systems—General. [Order 75-40, § 296-48B-550, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-555 Oil piping systems—Expandable or multiple commercial coaches. [Order 75-40, § 296-48B-555, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-560 Oil piping systems—Materials. [Order 75-40, § 296-48B-560, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-565 Oil piping systems—Size of oil piping. [Order 75-40, § 296-48B-565, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-570 Oil piping systems—Joints for oil piping. [Order 75-40, § 296-48B-570, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-575 Oil piping systems—Tubing joints. [Order 75-40, § 296-48B-575, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-580 Oil piping systems—Pipe-joint compound. [Order 75-40, § 296-48B-580, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-585 Oil piping systems—Couplings. [Order 75-40, § 296-48B-585, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-590 Oil piping systems—Grade of piping. [Order 75-40, § 296-48B-590, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-595 Oil piping systems—Strap hangers. [Order 75-40, § 296-48B-595, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-598 Oil piping systems—Testing for leakage. [Order 75-40, § 296-48B-598, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-600 Appliances—Heat-producing. [Order 75-40, § 296-48B-600, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-610 Appliances—Installation. [Order 75-40, § 296-48B-610, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-615 Appliances—Venting, ventilation and combustion air. [Order 75-40, § 296-48B-615, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-620 Appliances—Clearance-general. [Order 75-40, § 296-48B-620, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-675 Safety devices—Water heater relief valves. [Order 75-40, § 296-48B-675, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-680 Air ducts—Duct material for circulating air supply system. [Order 75-40, § 296-48B-680, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-685 Air ducts—Sizing of ducts. [Order 75-40, § 296-48B-685, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-690 Air ducts—Airtightness of supply duct systems. [Order 75-40, § 296-48B-690, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-695 Air ducts—Expandable or multiple commercial coach connections. [Order 75-40, § 296-48B-695, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-720 Air ducts—Return air systems. [Order 75-40, § 296-48B-720, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-725 Air ducts—Joints and seams. [Order 75-40, § 296-48B-725, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-730 Air ducts—Supports. [Order 75-40, § 296-48B-730, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-735 Air ducts—Registers or grills. [Order 75-40, § 296-48B-735, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-740 Air ducts—Duct and plenum insulation. [Order 75-40, § 296-48B-740, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-800 Plumbing—Definitions. [Order 75-40, § 296-48B-800, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-805 Plumbing—General. [Order 75-40, § 296-48B-805, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-810 Plumbing—Location of water-supply connections. [Order 75-40, § 296-48B-810, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-815 Plumbing—Tub and shower enclosures. [Order 75-40, § 296-48B-815, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-820 Drainage—Location of drain outlets. [Order 75-40, § 296-48B-820, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-825 Drainage—Cap or plug. [Order 75-40, § 296-48B-825, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-830 Drainage—Clearance from drain outlet. [Order 75-40, § 296-48B-830, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

296-48B-835 Drainage—Drainage systems materials. [Order 75-40, § 296-48B-835, filed 12/4/75.] Repealed by 82-04-060 (Order 82-4), filed 2/2/82. Statutory Authority: RCW 43.22.340.

Chapter 296-49
GOVERNOR'S MOBILE HOME AND RECREATIONAL VEHICLE ADVISORY BOARD

296-49-001 Conditions of reciprocity. [Order 73-14, § 296-49-001 and 296-49-011, filed 7/31/73.] Recodified as WAC 296-48-011.

296-49-005 Foreword. [Order 70-3, § 296-49-005, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-010 Definitions. [Order 70-3, § 296-49-010, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-012 Agreements with out-of-state jurisdictions. [Order 73-14, § 296-49-012, filed 7/31/73.] Recodified as WAC 296-48-012.

296-49-015 Officers. [Order 70-3, § 296-49-015, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-020 Internal management. [Order 70-3, § 296-49-020, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-025 Duties. [Order 70-3, § 296-49-025, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-030 Hearings. [Order 70-3, § 296-49-030, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-035 Appearance and practice before board. [Order 70-3, § 296-49-035, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-040 Solicitation of business unethical. [Order 70-3, § 296-49-040, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-045 Standards of ethical conduct. [Order 70-3, § 296-49-045, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-050 Appearance by former employee. [Order 70-3, § 296-49-050, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-055 Former employee as expert witness. [Order 70-3, § 296-49-055, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-060 Computation of time. [Order 70-3, § 296-49-060, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

296-49-065 Administrative Procedure Act. [Order 70-3, § 296-49-065, filed 4/29/70.] Repealed by 97-16-043, filed 7/31/97, effective 12/1/97. Statutory Authority: RCW 43.22.340 and 43.22.420.

Chapter 296-51
AMMONIUM NITRATE PRECAUTIONS

296-51-010 Storage and handling of ammonium nitrate—Posting of caution placards. [Rule 1.010, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-020 Storage and handling of ammonium nitrate—General precautions. [Rule 1.020, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-030 Storage and handling of ammonium nitrate—Storage of bags. [Rule 1.030, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-040 Storage and handling of ammonium nitrate—Storage in noncombustible type buildings. [Rule 1.040, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-050 Storage and handling of ammonium nitrate—Open lights or flame. [Rule 1.050, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-060 Storage and handling of ammonium nitrate—Bag handling. [Rule 1.060, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-070 Storage and handling of ammonium nitrate—Loosening of caked ammonium nitrate. [Rule 1.070, effective 11/1/62; § 2, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-100 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Mixing with sensitizing materials. [Rule 2.010, effective 11/1/62; § 6f1, filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-110 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Marking of bags or containers. [Rule 2.020, effective 11/1/62; § 6f2, filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-120 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Storage of raw ammonium nitrate. [Rule 2.030, effective 11/1/62; § 1b, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-130 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Open drains and piping—Warehouse floors. [Rule 2.040, effective 11/1/62; § 3a, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-140 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Floors in processing plant. [Rule 2.050, effective 11/1/62; § 3b, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-150 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Fuel storage. [Rule 2.060, effective 11/1/62; § 1c and 3b, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-160 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Heat. [Rule 2.070, effective 11/1/62; § 3d, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-170 Processing plant for sensitizing ammonium nitrate operation and storage requirements—Smoking. [Rule 2.080, effective 11/1/62; § 3j, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-180 Processing plant for sensitizing ammonium nitrate operation and storage requirements—One day's production. [Rule 2.090, effective 11/1/62; § 3f, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-200 General provisions—Unusual compositions. [Rule 3.010, effective 11/1/62; § 3e, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-210 General provisions—Mixing for above ground use at jobsite. [Rule 3.020, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-220 General provisions—Ammonium nitrate bag accumulation prohibited. [Rule 3.030, effective 11/1/62; § 3k,

filed 8/8/60 and 5/1/62; § 6e(3a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-230 General provisions—Cleanliness. [Rule 3.040, effective 11/1/62; Rule 3l, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-240 General provisions—Proper stacking. [Rule 3.050, effective 11/1/62; § 3m, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-250 General provisions—Mobile equipment. [Rule 3.060, effective 11/1/62; § 4a, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-260 General provisions—Volatile fuels. [Rule 3.070, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-270 General provisions—Crude oil and crankcase oil prohibited. [Rule 3.080, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-280 General provisions—Misfires (other than underground). [Rule 3.090, effective 11/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-300 General storage requirements—Standard magazine construction. [Rule 4.010, effective 11/1/62; § 3h, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-310 General storage requirements—Calculation of distance limitations. [Rule 4.020, effective 11/1/62; § 1a, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-320 General storage requirements—Storage of processed compositions. [Rule 4.030, effective 11/1/62; § 1d, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-330 General storage requirements—Ventilation of storage areas. [Rule 4.040, effective 11/1/62; § 3c, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-340 General storage requirements—Storage in vans. [Rule 4.050, effective 11/1/62; § 3g, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-350 General storage requirements—Storage van requirements. [Rule 4.060, effective 11/1/62; § 3i, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-360 General storage requirements—Limitation of amount of fuel sensitized ammonium nite at blasting site. [Rule 4.070, effective 11/1/62; § 5a, filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-400 Underground blasting operations—Permit required—Must be renewed annually—Posted on premises. [Rule 5.010, effective 11/1/62; § 6e, filed 8/8/60; § 6e, filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-410 Underground blasting operations—Rating of blasting agents. [Rule 5.020, effective 11/1/62; § 6f, filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-420 Underground blasting operations—Loading of holes. [Rule 5.030, effective 11/1/62; § 6e(1a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-430 Underground blasting operations—Priming. [Rule 5.040, effective 11/1/62; § 6a, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-440 Underground blasting operations—Grounding. [Rule 5.050, effective 11/1/62; § 6e(2a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-450 Underground blasting operations—Firing. [Rule 5.060, effective 11/1/62; § 6e(5a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-460 Underground blasting operations—Misfire. [Rule 5.070, effective 11/1/62; § 6b & 6c, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-470 Underground blasting operations—Fumes. [Rule 5.080, effective 11/1/62; § 6d, filed 8/8/60 and 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-480 Underground blasting operations—Wet holes. [Rule 5.090, effective 11/1/62; § 6e(4a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

296-51-490 Underground blasting operations—Liners prohibited. [Rule 5.100, effective 11/1/62; § 6e(4a), filed 5/1/62.] Repealed by Order 76-28, filed 9/28/76.

Chapter 296-53
SAFETY REQUIREMENTS FOR EXPLOSIVE-ACTUATED FASTENING TOOLS

296-53-010, 296-53-020, 296-53-030, 296-53-040, 296-53-050, 296-53-060, 296-53-070, 296-53-080, 296-53-090, 296-53-100, 296-53-110. [Paragraphs I through XI, effective 8/1/52, filed 3/23/60.] Repealed by Order 68-6, filed 10/24/68, effective 12/1/68.

296-53-200 Scope. [Order 68-6, § 296-53-200, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-210 Purpose. [Order 68-6, § 296-53-210, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-220 Exception. [Order 68-6, § 296-53-220, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-230 References to other codes. [Order 68-6, § 296-53-230, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-240 Effective date. [Order 68-6, § 296-53-240, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-250 Definitions. [Order 68-6, § 296-53-250, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-260 Design requirements—High velocity tools. [Order 68-6, § 296-53-260, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-270 Low velocity piston tools. [Order 68-6, § 296-53-270, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-280 Hammer-operated piston tools—Low velocity type. [Order 68-6, § 296-53-280, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-290 Requirements for loads and fasteners. [Order 68-6, § 296-53-290, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-300 Approvals. [Order 68-6, § 296-53-300, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-310 Operation. [Order 68-6, § 296-53-310, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-320 Servicing. [Order 68-6, § 296-53-320, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-330 Qualification and certification of operators. [Order 68-6, § 296-53-330, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-340 Storage of explosive-actuated tools, instruction books, cleaning kits, and tools. [Order 68-6, § 296-53-340, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

296-53-350 Use low velocity tools when possible. [Order 68-6, § 296-53-350, filed 10/24/68, effective 12/1/68.] Repealed by Order 75-12, filed 4/4/75.

Chapter 296-58
SAFETY STANDARDS—METALS INDUSTRY

296-58-001 Foreword. [Foreword, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-004 Practical application of standards. [Practical application paragraphs, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-010 Safe place standards. [Standard 1, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-015 Safe practice standards. [Standard 2, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-020 Standard safeguard defined. [Standard 3, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-025 Approved. [Standard 4, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-030 Substantial. [Standard 5, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-035 Exposed to contact. [Standard 6, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-040 Warning placards. [Standard 7, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-045 Wooden guards. [Standard 8, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-050 Metal guards—Framework. [Standard 9, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-055 Standard railings. [Standard 10, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-060 Fillers. [Standard 11, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-065 Filling material for metal guards. [Standard 12, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-070 Safeguards must not admit rod or pipes. [Standard 13, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-075 Lighting and illumination. [Standard 14, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-080 Diffusion and distribution of artificial and natural light. [Standard 15, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-085 Foundations. [Standard 16, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-090 Housekeeping. [Standard 17, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-095 Plant location. [Standard 18, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-100 Power transmission equipment and machine parts. [Standard 19, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-105 Saw guarding (metal and wood). [Standard 20, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-110 Machine power control. [Standard 21, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-115 Loose pulleys and cone pulleys. [Standard 22, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-120 Exposure to harmful atmospheric conditions and exposure to harmful materials. [Standard 23, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-125 Nontoxic dusts. [Standard 24, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-130 Methods of control. [Standard 25, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-135 Minimum general requirements for electrical safety. [Standard 26, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-140 Helpers around machines shall receive instructions. [Standard 27, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-145 Machines shall be stopped in making repairs. [Standard 28, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-150 Torn and loose clothing. [Standard 29, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-155 Personal protective equipment and clothing. [Standard 30, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-160 Sterilization of equipment. [Standard 31, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-165 Caps or other head covering. [Standard 32, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-170 Prevention of industrial disease. [Standard 33, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-175 Carbon monoxide gas. [Standard 34, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-180 Acids and chemicals. [Standard 35, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-185 Steam pipes. [Standard 36, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-190 Hot liquid vats—Location of. [Standard 37, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-195 Vats and tanks guarded. [Standard 38, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-200 Building—Floors. [Standard 39, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-205 Stairways. [Standard 40, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-210 Fire escapes. [Standard 41, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-215 Swinging doors—Windows required. [Standard 42, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-220 Doorways near railroad tracks and roadways. [Standard 43, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-225 Platforms and runways. [Standard 44, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-230 Floor openings. [Standard 45, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-235 Trestles and walks in industrial plants. [Standard 46, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-240 Hoistways. [Standard 47, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-245 Elevators. [Standard 48, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-250 Conveyors. [Standard 49, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-255 Revolving drums and cylinders. [Standard 50, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-260 Means to prevent slipping. [Standard 51, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-265 Polishing and buffing wheels. [Standard 52, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-270 Cranes and hoists definitions. [Standard 53, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-275 All cranes—Construction. [Standard 54, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-280 All cranes—Electrical equipment. [Standard 55, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-285 All cranes—Chains and wire rope. [Standard 56, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-290 All cranes—Floor operated cranes. [Standard 57, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-295 All cranes—Operators. [Standard 58, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-300 All cranes—Signalmen. [Standard 59, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-305 All cranes—Repairmen. [Standard 60, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-310 All cranes—Construction requirements. [Standard 61, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-315 All cranes—Platforms and footwalks. [Standard 62, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-320 All cranes—Cages. [Standard 63, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-325 All cranes—Rail stops, bumpers and fenders. [Standard 64, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-330 Special requirements for gantry cranes. [Standard 65, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-335 Requirements for A-frames, mobile cranes and excavation equipment, loaders, and locomotive cranes and equipment. [Standard 66, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-340 Construction, operation and maintenance—Chain and electric hoists. [Standard 67, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-345 Construction, operation and maintenance—Monorail hoists. [Standard 68, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-350 Construction, operation and maintenance—Air hoists. [Standard 69, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-355 Jib, pillar, and portable floor cranes, crabs and winches. [Standard 70, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-360 Fibre rope. [Standard 71, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-365 Wire rope clamps—Thimbles—Sheaves. [Standard 72, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-370 Wire rope slings, hooks. [Standard 73, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-375 Ladles and crucibles. [Standard 74, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-380 Molding and casting areas. [Standard 75, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-385 Drop guarding. [Standard 76, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-390 Wet materials. [Standard 77, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-395 Explosive materials. [Standard 78, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-400 Material storage. [Standard 79, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-405 Shears. [Standard 80, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-410 Power vehicles. [Standard 81, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-415 Sanitation. [Standard 82, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-420 Washroom and locker. [Standard 83, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-425 Grinding wheels. [Standard 84, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-430 Spray rooms, spray booths, etc. [Standard 85, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-435 Care and use of ladders. [Standard 86, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-440 Fixed ladders. [Standard 87, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-445 Ladder cage. [Standard 88, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-450 Landings. [Standard 89, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-455 Machine, forging and metalworking shops. [Standard 90, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

296-58-460 Power presses and drop hammers. [Standard 91, effective 6/1/55, filed 3/23/60.] Repealed by Order 76-7, filed 3/1/76. Later promulgation, see chapter 296-61 WAC.

Chapter 296-60
SAFETY STANDARDS—METALLIC AND NONMETALLIC MINES

296-60-010, 296-60-015, 296-60-020, 296-60-025, 296-60-030, 296-60-035, 296-60-040, 296-60-045, 296-60-050, 296-60-055, 296-60-060, 296-60-065, 296-60-070, 296-60-075, 296-60-080, 296-60-085, 296-60-090, 296-60-095, 296-60-100, 296-60-105, 296-60-110, 296-60-115, 296-60-120, 296-60-125, 296-60-130, 296-60-135, 296-60-140, 296-60-145, 296-60-150, 296-60-155, 296-60-160, 296-60-165, 296-60-166, 296-60-170, 296-60-175, 296-60-180, 296-60-185, 296-60-190, 296-60-195, 296-60-200, 296-60-205, 296-60-210, 296-60-215, 296-60-220, 296-60-225, 296-60-230, 296-60-235, 296-60-240, 296-60-245, 296-60-250, 296-60-255, 296-60-260, 296-60-265, 296-60-268, 296-60-270, 296-60-275, 296-60-280, 296-60-285, 296-60-290, 296-60-295, 296-60-300, 296-60-305, 296-60-310, 296-60-315, 296-60-320, 296-60-325, 296-60-330, 296-60-335, 296-60-340, 296-60-345, 296-60-350, 296-60-355, 296-60-358, 296-60-360, 296-60-365, 296-60-370, 296-60-375, 296-60-380, 296-60-385. [Rules, filed 3/23/60, effective 5/1/48.] Repealed by Order 72-1, filed 2/25/72, effective 4/1/72.

Chapter 296-61
SAFETY STANDARDS—METAL AND NONMETALLIC MINES, QUARRIES, PITS, AND CRUSHING OPERATIONS

296-61-010 Scope and application. [Order 72-1, § 296-61-010, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-020 Definitions. [Order 72-1, § 296-61-020, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-030 Safety education and first-aid requirements—General, surface, and underground. [Order 72-1, § 296-61-030, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-040 Personal protective equipment and clothing—General, surface and underground. [Order 72-1, § 296-61-040, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-050 General requirements. [Order 72-1, § 296-61-050, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-060 Illumination. [Order 72-1, § 296-61-060, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-070 Guards and guarding. [Order 72-1, § 296-61-070, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-080 Fire prevention and control—General. [Order 72-1, § 296-61-080, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-090 Travelways and escapeways—Surface and underground. [Order 72-1, § 296-61-090, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-100 Air quality, ventilation and radiation. [Order 72-1, § 296-61-100, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-110 Regulations pertaining to use of diesel equipment underground. [Order 72-1, § 296-61-110, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-120 Electricity—Surface and underground. [Order 72-1, § 296-61-120, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-130 Deenergizing and lock-out or tag-out procedures. [Order 72-1, § 296-61-130, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-140 Vessel or confined area requirements. [Order 72-1, § 296-61-140, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-150 Compressed air, boilers, hoses and fittings, surface and underground—General. [Order 72-1, § 296-61-150, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-160 Materials storage and handling—General, surface and underground. [Order 72-1, § 296-61-160, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-170 Crane rail stops, bumpers and fenders. [Order 72-1, § 296-61-170, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-180 Crane platforms and footwalks. [Order 72-1, § 296-61-180, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-190 Pit and quarry operations—Ground control—Surface. [Order 72-1, § 296-61-190, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-200 Ground control—Underground. [Order 72-1, § 296-61-200, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-210 Drilling. [Order 72-1, § 296-61-210, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-220 Rotary jet piercing—Surface only. [Order 72-1, § 296-61-220, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-230 Man hoisting—Hoists. [Order 72-1, § 296-61-230, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-240 Conveyances. [Order 72-1, § 296-61-240, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-250 Hoisting procedures. [Order 72-1, § 296-61-250, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-260 Signaling. [Order 72-1, § 296-61-260, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-270 Shafts. [Order 72-1, § 296-61-270, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-280 Explosives. [Order 72-1, § 296-61-280, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-290 Loading, hauling, dumping—General, surface and underground. [Order 72-1, § 296-61-290, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-300 Aerial tramways. [Order 72-1, § 296-61-300, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-310 Crushing and milling operations. [Order 72-1, § 296-61-310, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

296-61-320 Gassy mines. [Order 72-1, § 296-61-320, filed 2/25/72, effective 4/1/72.] Repealed by 99-01-023, filed 12/7/98, effective 1/10/99. Statutory Authority: RCW 49.17.040.

Chapter 296-64
SAFETY STANDARDS—OCCUPATIONAL DISEASES

296-64-001 Preface. [Preface, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-002 Introduction. [Introduction, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-005 Foreword. [Foreword, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-010 Safety standards relating to dusts, fumes, vapors and gases in industry—Application. [Standard 1, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-020 Definitions. [Standard 2, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-030 Control of atmospheric contaminants. [Standard 3, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-031 Threshold limit values. [Appendix 1, filed 3/23/60.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-040 Specifications of air requirements per worker in industrial plants. [Standard 4, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-050 Local exhaust ventilation. [Standard 5, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-060 Personal protective equipment. [Standard 6, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-070 Substitution of nonhazardous equipment, material or process. [Standard 7, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-080 Dust allaying media. [Standard 8, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-090 Isolation of hazardous operations. [Standard 9, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-100 Sanitation and cleanliness. [Standard 10, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-110 Rubber boots. [Standard 11, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-120 Applying paint by the spray method in fixed finishing shops. [Spray paint in fixed finishing shops rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-130 Galvanizing. [Galvanizing rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-140 Workmen exposed to silicosis. [Exposure to silicosis rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-150 Plywood manufacturing—Men handling glue (core) sections. [Plywood-glue (core) section rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-160 Auto repair and internal combustion engine adjusting plants. [Auto repair and internal combustion engine

adjusting plant rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-170 Applying paint by the method of the spray, other than in fixed finishing shops. [Spray paint rules (other than in fixed finishing shops), effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-180 Wool weaving. [Wool weaving rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-190 Sea foods—Fresh and canning industry employees. [Sea food rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-200 Paint and kalsomine manufacturing and handling. [Paint and kalsomine manufacturing and handling rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-210 Handling and emptying of sacks or barrels containing dry kalsomine, cement, sand-blasting sand and other like material except in manufacturing plants. [Paint and kalsomine sack and barrel rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-220 Shingle manufacturing. [Shingle manufacturing rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-230 Compressed air chambers, hard rock workers—Soft earth tunnels and open cuts. [Compressed air, hard rock, soft earth tunnels, and open cut rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-240 Electric and gas torch workers. [Electric and gas torch rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-250 Battery manufacturing and rebuilding. [Battery manufacturing and rebuilding rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-260 Power propelled trucks operated within buildings. [Power propelled truck rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-270 Polishing, grinding and buffing machine operators. [Polishing, grinding, and buffing rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-280 Plating and removal of plating, including acid dips. [Plating and stripping rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-290 Dry cleaning by use of any solvent, producing fumes, gasses or vapors injurious to health, including, but not limiting the same to, carbon tetrachloride, trichloroethylene, perchloroethylene and their sequel. [Dry cleaning rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-300 Lumber and timber treated with arsenic compounds and the handling thereof. [Arsenic treated lumber rules, effective 10/1/38.] Repealed by Order 70-8 (part), filed 7/31/70, effective 9/1/70.

296-64-400 Purpose and scope. [Standard I, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

296-64-405 Definitions. [Standard II, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

296-64-410 General requirements. [Standard III, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

296-64-415 General labeling requirements and attached appendices. [Standard IV, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

296-64-420 Container handling and storage. [Standard V, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

296-64-425 Exemptions. [Standard VI, effective 12/1/62.] Repealed by 86-12-004 (Order 86-22), filed 5/22/86. Statutory Authority: RCW 49.17.230, 49.70.180, 49.17.040, 49.17.050 and 49.17.240.

Chapter 296-66
SAFETY STANDARDS—PAINTING AND DECORATING INDUSTRY

296-66-005 Foreword. [Foreword, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-010 Safety educational standards—Introduction. [§ A-1, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-015 Safety educational standards—Management's responsibility. [§ A-2, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-020 Safety educational standards—Employee's responsibility. [§ A-3, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-025 Safety educational standards—Safety inspector plan. [§ A-4, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-030 Safety educational standards—Settlement of disputes. [§ A-5, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-035 Safety educational standards—Safety committee plan. [§ A-6, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-040 Safety educational standards—Settlement of disputes. [§ A-7, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-045 Safety educational standards—Safety educational report. [§ A-8, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-050 Safety educational standards—Safety bulletin board. [§ A-9, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-055 Safety educational standards—Minimum requirements for first aid. [§ A-9, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-060 Safety educational standards—First-aid kit. [§ A-11, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-065 Safety educational standards—First-aid room. [§ A-12 (part), effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-070 Safety educational standards—Conclusion—Approval for changes. [§ A-12 (part), effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-080 Ladders and scaffolds—Purpose and application. [Ladder and scaffold rules (part), effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-085 Ladders and scaffolds—Definitions. [Ladder and scaffold definitions, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-090 Ladders and scaffolds—General requirements. [§§ B-1 through B-27, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-095 Ladders and scaffolds—Built-up wood scaffolds. [§§ C-1 through C-8, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-100 Ladders and scaffolds—Factory-built scaffold units. [§ D-1, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-105 Ladders and scaffolds—Tubular post scaffolds. [§§ E-1 through E-15, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-110 Ladders and scaffolds—Swinging scaffolds—Construction. [§§ F-1 through F-27, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-115 Ladders and scaffolds—General requirements for swinging scaffolds. [§§ G-1 through G-18, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-120 Ladders and scaffolds—Needle beam scaffolds. [§§ H-1 through H-21, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-125 Ladders and scaffolds—Horse scaffold. [§§ I-1 through I-21, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-130 Ladders and scaffolds—Plasterers' and decorators' inside scaffolds. [§§ J-1 through J-17, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-135 Ladders and scaffolds—Interior hung scaffolds. [§§ J-18 through J-24, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-140 Ladders and scaffolds—Window jack scaffolds. [§§ K-1 through K-6, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

296-66-145 Ladders and scaffolds—Crawling boards or chicken ladders. [§§ L-1 through L-6, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-150 Ladders and scaffolds—Ladder supported scaffolds. [§§ M-1 through M-9, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-155 Ladders and scaffolds—Ladder specifications—Definitions. [Definitions for ladder specifications, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-160 Ladders and scaffolds—Ladder material. [§ N-1, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-165 Ladders and scaffolds—Step ladders. [§ N-2, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-170 Ladders and scaffolds—Single ladders. [§ N-3, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-175 Ladders and scaffolds—Extension ladders. [§ N-4, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-180 Ladders and scaffolds—Trestle and extension ladders. [§ N-5, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-185 Ladders and scaffolds—Painter's ladder. [§ N-6, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-190 Ladders and scaffolds—Extension trestles. [§ N-7, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-195 Ladders and scaffolds—Metal ladders. [§ N-8, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-200 Testing scaffold planks and stringers. [§§ O-1 through O-4, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-205 Care and use of ladders. [§§ P-1 through P-31, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-210 Roofing brackets. [§§ Q-1 and Q-2, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-215 Boatswain's chair. [§§ R-1 through R-6, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-220 Life nets—Safety belts—Life lines. [§§ S-1 through S-5, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-225 Application of paint coating—General. [Paint coating rules (part), effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-230 Application of paint coating—Definitions. [Paint coating definitions, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-235 Spray coating of buildings, structures and outdoor spraying—Scope of rules. [Scope of spray coating rules, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-240 Spray coating of buildings, structures and outdoor spraying—Equipment. [§§ T-1 and T-2, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-245 Spray coating of buildings, structures and outdoor spraying—Operation. [§§ U-1 through U-12, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-250 Spray coating of buildings, structures and outdoor spraying—Protection of person. [§§ V-1 through V-14, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-255 Coating operations inside of buildings. [§§ W-1 through W-7, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-260 Electrical equipment. [§§ X-1 through X-17, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-265 Air supply. [§§ Y-1 through Y-3, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-270 Operation. [§§ Z-1 through Z-3, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
296-66-275 Maintenance. [§§ AA-1 through AA-5, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.
Appendix Illustrations 1 thru 10. [Appendix, effective 11/1/48, filed 3/23/60.] Repealed by Order 76-29, filed 9/30/76.

Chapter 296-68
SAFETY STANDARDS—POWER PROPELLED TRUCKS

296-68-005 Preface. [Preface, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-010 Use of intoxicants. [Rule A-1, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-015 Employer's responsibility. [Rules B-1 through B-3, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-020 Foreman's responsibility. [Rules C-1 through C-3, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-025 Workman's responsibility. [Rules D-1 and D-2, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-030 State inspector. [Rules E-1 and E-2, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-035 Safety meetings. [Rules F-1 through F-4, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-040 First-aid instruction and treatment of injured. [Rules G-1 through G-3, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.
296-68-045 Safety standards—Relating to the use of power-propelled trucks used principally in warehouses and docks (housed)—Construction of equipment and operation thereof. [Rules 1 through 16, effective 4/1/38.] Repealed by Order 75-13, filed 4/4/75.

Chapter 296-70
TUNNELS, SHAFTS AND SUBWAYS—SAFETY STANDARDS

296-70-010 Definitions. [Part I, Definitions, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-020 Safety miner. [§ A, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-030 Minimum first-aid requirements. [§ B, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-040 Fire protection. [§ C, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-050 Safe practice standards. [Subsections D-1—D-30, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-060 Personal protective equipment and clothing. [Subsections D-31—D-34, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-070 Rock dust. [§ E, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-080 Ventilation. [§ F, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-090 Protection against atmospheric containments. [§ G, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-100 Shaft protection. [§ H, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-110 Ladders and stairways. [§ I, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-120 Hoisting engineer. [§ J, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-130 Hoisting. [§ K, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-140 Hoisting ropes. [§ L, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-150 Signals and means of communication. [§ M, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-160 Blasting. [§ N, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-170 Timbering. [§ O, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-180 Lighting. [§ P, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-190 Electrical equipment. [§ Q, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-200 Use of fuel burning equipment in underground work and other enclosed areas. [§ R, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-210 Sumps. [§ S, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.
296-70-220 Sanitation. [§ T, filed 3/29/61.] Repealed by Order 76-29, filed 9/30/76.

Chapter 296-74
ANHYDROUS AMMONIA

296-74-010 Tanks. [Rules (part), filed 3/29/61.] Repealed by Order 75-9, filed 4/4/75.
296-74-020 Electrical. [Rules (part), filed 3/29/61.] Repealed by Order 75-9, filed 4/4/75.

296-74-030 Personnel protection. [Rules (part), filed 3/29/61.] Repealed by Order 75-9, filed 4/4/75.

Chapter 296-76
SAFETY STANDARDS—QUARRY OPERATIONS

296-76-005, 296-76-010, 296-76-015, 296-76-020, 296-76-025, 296-76-030, 296-76-035, 296-76-040, 296-76-045, 296-76-050, 296-76-055, 296-76-060, 296-76-065, 296-76-070, 296-76-075, 296-76-080, 296-76-085, 296-76-090, 296-76-095, 296-76-100, 296-76-105, 296-76-110, 296-76-115, 296-76-120, 296-76-125. [Rules, filed 3/29/61, effective 8/1/42.] Repealed by Order 72-1, filed 2/25/72, effective 4/1/72.

Chapter 296-80
SAFETY RULES GOVERNING THE CONSTRUCTION, OPERATION, MAINTENANCE AND INSPECTION OF INCLINED PASSENGER LIFTS

296-80-010 Scope. [Order 71-16, § 296-80-010, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-020 Definitions. [Order 71-16, § 296-80-020, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-030 Approval of plans and specifications. [Order 71-16, § 296-80-030, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-040 Runway enclosures. [Order 71-16, § 296-80-040, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-050 Landing enclosure. [Order 71-16, § 296-80-050, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-060 Enclosure clearances. [Order 71-16, § 296-80-060, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-070 Machine rooms. [Order 71-16, § 296-80-070, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-080 Machine supports and factors of safety. [Order 71-16, § 296-80-080, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-090 Car clearances. [Order 71-16, § 296-80-090, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-100 Counterweights when used. [Order 71-16, § 296-80-100, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-110 Landing doors or gates. [Order 71-16, § 296-80-110, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-120 Landing sills. [Order 71-16, § 296-80-120, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-130 Guide rails. [Order 71-16, § 296-80-130, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-140 Car enclosure. [Order 71-16, § 296-80-140, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-150 Safeties. [Order 71-16, § 296-80-150, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-160 Car speed governors. [Order 71-16, § 296-80-160, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-170 Machines. [Order 71-16, § 296-80-170, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-180 Terminal stopping and safety devices. [Order 71-16, § 296-80-180, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-190 Operation and control. [Order 71-16, § 296-80-190, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-200 Limits of speed. [Order 71-16, § 296-80-200, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-210 Ropes. [Order 71-16, § 296-80-210, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-220 Fastening car and counterweight ends of ropes. [Order 71-16, § 296-80-220, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-230 Rope tags. [Order 71-16, § 296-80-230, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-240 Buffers. [Order 71-16, § 296-80-240, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-250 Electrical equipment. [Order 71-16, § 296-80-250, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-260 Inspections and tests. [Order 71-16, § 296-80-260, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-270 Maintenance. [Order 71-16, § 296-80-270, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-280 Rack and pinion drive. [Order 71-16, § 296-80-280, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

296-80-290 Variances from requirements—How granted. [Order 71-16, § 296-80-290, filed 12/7/71.] Repealed by 84-23-001 (Order 84-21), filed 11/8/84. Statutory Authority: RCW 70.87.030 and 70.87.185.

Chapter 296-83
ELECTRIC MANLIFTS

296-83-010 Scope and application. [Rules (part), effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-015 Waiver and variance. [Rules (part), effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-020 Hoistway enclosures and landings. [§ I, Rule 1.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-025 Hoistway gates. [§ II, Rules 2.010-2.030, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-030 Elevator car. [§ III, Rules 3.010-3.020, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-035 Elevator doors. [§ IV, Rule 4.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-040 Counterweight, enclosures and fastenings. [§ V, Rule 5.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-045 Guide rails. [§ VI, Rule 6.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-050 Hoisting ropes. [§ VII, Rule 7.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-055 Space under hoistway. [§ VIII, Rule 8.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed

1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-060 Car safeties. [§ IX, Rule 9.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-065 Brakes. [§ X, Rule 10.010, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-070 Car controls and safety devices. [§ XI, Rules 11.010-11.060, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-075 Hoisting machine mechanisms. [§ XII, Rules 12.010-12.040, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-080 Elevator car and counterweight buffers. [§ XIII, Rules 13.010-13.020, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-83-085 General requirements. [§ XIV, Rules 14.010-14.030, effective 5/15/64.] Repealed by 86-03-025 (Order 86-4), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

Chapter 296-86
REGULATIONS AND FEES FOR FREIGHT AND PASSENGER ELEVATORS, MANLIFTS, DUMBWAITERS, ESCALATORS, MOVING WALKS, AUTOMOBILE PARKING ELEVATORS, PERSONNEL ELEVATORS, AND OTHER LIFTING DEVICES

296-86-010 Permits for construction, alteration, relocation of installations. [Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-010, filed 5/20/82; Order 70-5, § 296-86-010, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-020 Construction and alteration fee. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-020, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-026 (Order 86-5), § 296-86-020, filed 1/10/86. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-020, filed 5/20/82; Order 70-5, § 296-86-020, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-030 Installation fee for personnel elevators and material hoists. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-030, filed 5/20/97, effective 6/30/97. Statutory Authority: Chapter 70.87 RCW and RCW 70.87.030. 92-24-065, § 296-86-030, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-026 (Order 86-5), § 296-86-030, filed 1/10/86. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-030, filed 5/20/82; Order 76-37, § 296-86-030, filed 12/3/76; Order 74-36, § 296-86-030, filed 10/1/74; Order 70-11, § 296-86-030, filed 9/18/70, effective 10/21/70; Order 70-5, § 296-86-030, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-040 Submission of plans for new installations. [Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-040, filed 5/20/82; Order 74-36, § 296-86-040, filed 10/1/74; Order 70-5, § 296-86-040, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-050 Fee for checking plans for new installations. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-050, filed 5/20/97, effective 6/30/97; Order 70-5, § 296-86-050, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-060 Annual operating permit fees. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-060, filed 5/20/97, effective 6/30/97. Statutory Authority: Chapter 70.87 RCW. 95-04-005, § 296-86-060, filed 1/18/95, effective 3/1/95. Statutory Authority: Chapter 70.87 RCW and RCW 70.87.030. 92-24-065, § 296-86-060, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-026 (Order 86-5), § 296-86-060, filed 1/10/86. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-060, filed 5/20/82; Order 76-37, § 296-86-060, filed 12/3/76; Order 74-36, § 296-86-060, filed 10/1/74; Order 71-16, § 296-86-060, filed 12/7/71; Order 70-11, § 296-86-060, filed 9/18/70, effective 10/21/70; Order 70-5, § 296-86-060, filed 6/2/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-070 Supplemental inspections. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-070, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-026 (Order 86-5), § 296-86-070, filed 1/10/86. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-070, filed 5/20/82; Order 76-37, § 296-86-070, filed 12/3/76; Order 74-36, § 296-86-070, filed 10/1/74; Order 70-11, § 296-86-070, filed 9/18/70, effective 10/21/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-075 Reinspection fees. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-075, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-026 (Order 86-5), § 296-86-075, filed 1/10/86. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-075, filed 5/20/82; Order 76-37, § 296-86-075, filed 12/3/76; Order 72-2, § 296-86-075, filed 2/25/72.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-080 Fee for inspection of regular elevators being used as temporary personnel elevators. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-080, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.030. 82-12-005 (Order 82-18), § 296-86-080, filed 5/20/82; Order 76-37, § 296-86-080, filed 12/3/76; Order 70-11, § 296-86-080, filed 9/18/70, effective 10/21/70.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

296-86-090 Material lift installation, alteration and relocation fees. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-86-090, filed 5/20/97, effective 6/30/97.] Repealed by 98-12-043, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 70.87 RCW.

Reviser's note: Later promulgation, see chapter 296-86A WAC.

Chapter 296-88
SAFETY RULES FOR GRAIN ELEVATOR OPERATIONS

296-88-001 Foreword. [Foreword, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-010 Scope and application. [Rules (part), effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-020 Purpose. [Rules (part), effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-030 General requirements. [§ I, Rules 1.010—1.110, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-040 Entering storage type bins. [§ II, Rule 2.010, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-050 Entering silo type bins. [§ III, Rules 3.010—3.030, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-060 Inspection of shovel equipment. [§ IV, Rules 4.010—4.030, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-070 Railroad car safety. [§ V, Rules 5.010—5.080, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-080 Manlifts. [§ VI, Rule 6.010, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-090 Fumigation. [§ VII, Rules 7.010—7.110, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-100 Insecticides and disinfectants. [§ VIII, Rules 8.010 and 8.020, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-110 Structural requirements and safeguards. [§ IX, Rules 9.010—9.070, effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-120 Reference material. [Rules (part), effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

296-88-130 Glossary. [Rules (part), effective 1/2/65.] Repealed by 86-03-027 (Order 86-6), filed 1/10/86.

Chapter 296-90
SAFETY REQUIREMENTS FOR CANTILEVER HOISTS

296-90-010 Material hoist platforms. [Order 71-7, § 296-90-010, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-020 Guard rails. [Order 71-7, § 296-90-020, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-030 Tower construction. [Order 71-7, § 296-90-030, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-040 Hoisting machines. [Order 71-7, § 296-90-040, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-050 Car platform enclosure. [Order 71-7, § 296-90-050, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-060 Landing platforms. [Order 71-7, § 296-90-060, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-070 No rider posting. [Order 71-7, § 296-90-070, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-080 Maintenance, inspection and test periods. [Order 71-7, § 296-90-080, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-090 Compliance with codes. [Order 71-7, § 296-90-090, filed 6/17/71.] Repealed by 86-03-028 (Order 86-7), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-90-100 Annual fee. [Order 71-7, § 296-90-100, filed 6/17/71.] Repealed by Order 74-36, filed 10/1/74.

Chapter 296-92
SAFETY RULES GOVERNING WHEELCHAIR LIFTING DEVICES

296-92-010 Definitions. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-010, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-020 Location, travel and speed. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-020, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-030 Guards and ramps. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-030, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-040 Supports. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-040, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-050 Frames, platforms and capacity. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-050, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-060 Controls and electrical equipment. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-060, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-070 Public assembly and institutional installations. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-070, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-080 Nonskid surfacing. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-080, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-090 Installation permits and acceptance inspections. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-090, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-100 Submission of plans for installation. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-100, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

296-92-110 Operation and maintenance manuals. [Statutory Authority: RCW 70.87.030. 81-01-034 (Order 80-26), § 296-92-110, filed 12/10/80.] Repealed by 86-03-029 (Order 86-8), filed 1/10/86.

Chapter 296-93
MATERIAL LIFTS

296-93-010 Scope. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-010, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-010, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-020 Hoistway enclosures. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-020, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-030 Hoistway enclosure gates and doors. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-030, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-040 Hoistways that do not extend to the lowest area of a building or structure. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-040, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-050 Driving machines and equipment. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-050, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-050, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-060 Hydraulic material lifts. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-060, filed 4/27/84.] Repealed by 86-03-030 (Order 86-9), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-93-070 Car enclosures. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-070, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-070, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-080 Running clearance. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-080, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-090 Car and counterweight guides. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-090, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-100 Car loading. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-100, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-110 Car doors and gates. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-110, filed 4/27/84.] Repealed by 86-03-030 (Order 86-9), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-93-120 Car operating and terminal stopping devices and electrical protective devices. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-120, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-120, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-130 Stop switch. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-130, filed 4/27/84.] Repealed by 86-03-030 (Order 86-9), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-93-140 Car safeties. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-140, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-150 Brakes. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-150, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-160 Ropes and chains—Rope connections, data, and records. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-160, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-170 Controls. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-170, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-170, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-180 Pipes and ducts. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-180, filed 4/27/84.] Repealed by 86-03-030 (Order 86-9), filed 1/10/86. Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100.

296-93-190 When material lift pit is provided. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-190, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-200 Illumination of landings. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-200, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-200, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-210 Capacity posting and no-riders sign. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-210, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-210, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-220 Electrical wiring. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-220, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-220, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-230 Guarding of exposed equipment. [Statutory Authority: RCW 70.87.080, 70.87.090 and 70.87.100. 86-03-030 (Order 86-9), § 296-93-230, filed 1/10/86. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-230, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-240 Maintenance. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-240, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-250 Installation permit. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-250, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-260 New installation—Alteration or relocation. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-260, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-270 Yearly inspections. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-270, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-280 Operating permit. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-280, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-290 Five-year tests. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-290, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-300 When should plans for installations, alterations and relocations be submitted? [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-93-300, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-300, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

296-93-320 Construction, alteration, and relocation fees. [Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-320, filed 4/27/84.] Repealed by 97-11-053, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2).

296-93-330 What is the annual operating permit fee? [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-93-330, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 70.87.030. 84-10-025 (Order 84-7), § 296-93-330, filed 4/27/84.] Repealed by 97-22-069, filed 11/4/97, effective 12/9/97. Statutory Authority: RCW 70.87.030.

Reviser's note: Later promulgation, see chapter 296-93A WAC.

Chapter 296-116
PILOTAGE RULES

296-116-010 Time and place of meeting. [Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-010, filed 8/23/78; Order 2-68, § 296-116-010, filed 11/1/68; § 1, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-010.

296-116-020 Special meeting. [Statutory Authority: RCW 88.16.035. 88-09-025 (Order 88-3, Resolution No. 88-3), § 296-116-020, filed 4/14/88. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-020, filed 8/23/78; Order 2-68, § 296-116-020, filed 11/1/68; § 2, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-020.

296-116-030 Emergency meeting. [Statutory Authority: RCW 88.16.035. 88-09-026 (Order 88-4, Resolution No. 88-4), § 296-116-030, filed 4/14/88. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-030, filed 8/23/78; Order 2-68, § 296-116-030, filed 11/1/68; § 3, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-030.

296-116-040 Quorum defined. [Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-040, filed 8/23/78; Order 2-68, § 296-116-040, filed 11/1/68; § 4, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-050 Records. [Order 2-68, § 296-116-050, filed 11/1/68; § 5, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-050.

296-116-060 Personnel. [Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-060, filed 8/23/78; Order 2-68, § 296-116-060, filed 11/1/68; § 6, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-060.

296-116-070 Collection of fees. [Statutory Authority: RCW 88.16.090 and 1995 c 175. 97-06-105, filed 3/5/97, effective 4/5/97. Statutory Authority: RCW 88.16.035. 88-14-063 (Order 88-13, Resolution No. 88-13), § 296-116-070, filed 7/1/88. Statutory Authority: RCW 88.16.090. 85-15-032 (Order 85-1, Resolution No. 85-1), § 296-116-070, filed 7/12/85; 84-11-056 (Order 84-4, Resolution No. 84-4), § 296-116-070, filed 5/18/84. Statutory Authority: RCW 88.16.035. 82-24-010 (Order 82-8, Resolution No. 82-8), § 296-116-070, filed 11/18/82; 79-11-063 (Order 79-5, Resolution No. 79-5), § 296-116-070, filed 10/18/79. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2,

Resolution No. 78-2), § 296-116-070, filed 8/23/78; Order 2-68, § 296-116-070, filed 11/1/68; § 7, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-070.

296-116-075 Qualifications for pilot applicants. [Statutory Authority: RCW 88.16.090(2). 92-15-064, § 296-116-075, filed 7/14/92, effective 8/14/92. Statutory Authority: RCW 88.16.035(2). 90-17-094, § 296-116-075, filed 8/20/90, effective 9/20/90. Statutory Authority: RCW 88.16.090. 82-15-026 (Order 82-6, Resolution No. 82-6), § 296-116-075, filed 7/14/82.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-075.

296-116-080 Licensing of pilots. [Statutory Authority: RCW 88.16.035(2). 92-14-070, § 296-116-080, filed 6/26/92, effective 7/27/92. Statutory Authority: RCW 88.16.090(2). 90-23-080, § 296-116-080, filed 11/20/90, effective 12/21/90. Statutory Authority: RCW 88.16.090. 89-18-045 (Order 89-7, Resolution No. 89-7), § 296-116-080, filed 8/31/89, effective 10/1/89; 88-10-037 (Order 88-9, Resolution No. 88-9), § 296-116-080, filed 5/3/88. Statutory Authority: RCW 88.16.035. 86-07-010 (Order 86-2, Resolution No. 86-2), § 296-116-080, filed 3/10/86. Statutory Authority: RCW 88.16.090. 82-15-028 (Order 82-7, Resolution No. 82-7), § 296-116-080, filed 7/14/82; 81-21-019 (Order 81-4, Resolution No. 81-4), § 296-116-080, filed 10/13/81. Statutory Authority: RCW 88.16.035. 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-080, filed 3/4/80; 79-11-063 (Order 79-5, Resolution No. 79-5), § 296-116-080, filed 10/18/79; 79-05-023 (Order 79-2, Resolution No. 79-2), § 296-116-080, filed 4/17/79; Order 75-8, § 296-116-080, filed 3/10/75; Order 73-6, § 296-116-080, filed 5/11/73; Order 2-68, § 296-116-080, filed 11/1/68; § 8, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-080.

296-116-081 Rest period. [Statutory Authority: RCW 88.16.035. 79-05-023 (Order 79-2, Resolution No. 79-2), § 296-116-081, filed 4/17/79; Order 73-6, § 296-116-081, filed 5/11/73.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-081.

296-116-082 Limitations on new pilots. [Statutory Authority: RCW 88.16.035 and 88.16.105. 93-09-016, § 296-116-082, filed 4/14/93, effective 5/15/93. Statutory Authority: RCW 88.16.105. 92-24-056, § 296-116-082, filed 11/30/92, effective 12/31/92; 92-08-051, § 296-116-082, filed 3/26/92, effective 4/26/92; 89-18-063 (Order 89-6, Resolution No. 89-6), § 296-116-082, filed 9/1/89, effective 10/2/89; 89-11-060 (Order 89-5, Resolution No. 89-5), § 296-116-082, filed 5/18/89. Statutory Authority: RCW 88.16.035. 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-082, filed 3/4/80.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-082.

296-116-083 Examination review and appeal procedures. [Statutory Authority: RCW 88.16.035. 88-10-038 (Order 88-10, Resolution No. 88-10), § 296-116-083, filed 5/3/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-083.

296-116-085 Association bylaws. [Statutory Authority: RCW 88.16.035. 82-13-087 (Order 82-10-049, Resolution No. 82-10-049), § 296-116-085, filed 6/23/82; Order 76-12, § 296-116-085, filed 4/22/76.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-085.

296-116-090 Examination of pilots (Puget Sound and adjacent inland waters). [Order 76-12, § 296-116-090, filed 4/22/76; Order 74-33, § 296-116-090, filed 7/10/74; Order 69-4, § 296-116-090, filed 7/18/69; Order 2-68, § 296-116-090, filed 11/1/68; § 9, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-095 Examination of pilots (Grays Harbor or Willapa Bay). [Order 76-12, § 296-116-095, filed 4/22/76; Order 73-6, § 296-116-095, filed 5/11/73; Order 2-68, § 296-116-095, filed 11/1/68; Rule 2-67 (part), filed 8/3/67, effective 9/5/67; Emergency Rule 1-67, filed 6/8/67.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-100 Details and requirements of new applications (Puget Sound and adjacent inland waters). [Order 76-12, § 296-116-100, filed 4/22/76; Order 74-33, § 296-116-100, filed 7/10/74; Order 69-4, § 296-116-100, filed 7/18/69; Order 2-68, § 296-116-100, filed 11/1/68; § 10, subsection 2, filed 7/18/61, 10/23/61, remainder of § 10, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-105 Details and requirements of new applications (Grays Harbor or Willapa Bay). [Order 76-12, § 296-116-105, filed 4/22/76; Order 73-6, § 296-116-105, filed 5/11/73; Order 2-68, § 296-116-105, filed 11/1/68.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-110 Details and requirements of annual license fee payment, physical examination report and reinstatement application. [Statutory Authority: RCW 88.16.090. 93-07-076, § 296-116-110, filed 3/18/93, effective 4/18/93. Statutory Authority: RCW 88.16.035. 92-08-050, § 296-116-110, filed 3/26/92, effective 4/26/92; 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-110, filed 3/4/80; Order 2-68, § 296-116-110, filed 11/1/68; § 11, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-110.

296-116-115 Sanctions for drug and alcohol offenders. [Statutory Authority: RCW 88.16.100(4). 90-23-081, § 296-116-115, filed 11/20/90, effective 12/21/90.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-115.

296-116-120 Job description—Physical examination—Health requirements. [Statutory Authority: RCW 88.16.090(6) and 88.16.100(4). 90-24-019, § 296-116-120, filed 11/28/90, effective 12/29/90. Statutory Authority: RCW 88.16.090(6). 90-13-065, § 296-116-120, filed 6/18/90, effective 7/19/90. Statutory Authority: RCW 88.16.090. 88-09-027 (Order 88-5, Resolution No. 88-5), § 296-116-120, filed 4/14/88; 85-15-033 (Order 85-2, Resolution No. 85-2), § 296-116-120, filed 7/12/85. Statutory Authority: RCW 88.16.035 and 88.16.090(6). 80-16-005 (Resolution No. 79-5), § 296-116-120, filed 10/23/80. Statutory Authority: RCW 88.16.035. 79-11-063 (Order 79-5, Resolution No. 79-5), § 296-116-120, filed 10/18/79; Order 73-6, § 296-116-120, filed 5/11/73; Order 2-68, § 296-116-120, filed 11/1/68; § 12, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-120.

296-116-130 Period of incapacitation. [Statutory Authority: RCW 88.16.035. 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-130, filed 3/4/80; Order 2-68, § 296-116-130, filed 11/1/68; § 13, effective 11/25/58.] Repealed by 90-13-077, filed 6/19/90, effective 7/20/90. Statutory Authority: RCW 88.16.090.

296-116-140 Limitations. [Order 2-68, § 296-116-140, filed 11/1/68.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-140.

296-116-150 Registration of operators. [Order 2-68, § 296-116-150, filed 11/1/68; § 15, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-150.

296-116-160 Mileage on Puget Sound and adjacent inland waters. [Order 73-6, § 296-116-160, filed 5/11/73; Order 2-68, § 296-116-160, filed 11/1/68; § 16, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-170 Pilotage station. [Order 2-68, § 296-116-170, filed 11/1/68; § 17, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-170.

296-116-175 Tariff proposals. [Statutory Authority: RCW 88.16.035. 87-19-100 (Order 87-1, Resolution No. 87-1), § 296-116-175, filed 9/17/87.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-175.

296-116-180 Tariffs, Puget Sound and adjacent inland waters. [Order 2-68, § 296-116-180, filed 11/1/68; § 18, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-185 Tariffs, and pilotage rates for the Grays Harbor pilotage district. [Statutory Authority: RCW 88.16.035. 96-14-062, § 296-116-185, filed 6/28/96, effective 8/1/96; 95-13-054, § 296-116-185, filed 6/16/95, effective 8/1/95; 94-05-006, § 296-116-185, filed 2/3/94, effective 3/6/94; 93-13-055, § 296-116-185, filed 6/16/93, effective 7/17/93; 93-03-080, § 296-116-185, filed 1/19/93, effective 2/19/93; 92-14-069, § 296-116-185, filed

6/26/92, effective 7/27/92; 91-08-008, § 296-116-185, filed 3/26/91, effective 4/26/91; 90-09-013, § 296-116-185, filed 4/6/90, effective 5/7/90; 89-08-042 (Order 89-3, Resolution No. 89-3), § 296-116-185, filed 3/31/89; 88-05-043 (Order 88-2, Resolution No. 88-2), § 296-116-185, filed 2/17/88, effective 3/21/88. Statutory Authority: RCW 88.16.035(4). 87-01-081 (Orders 86-9 and 86-10, Resolution Nos. 86-9 and 86-10), § 296-116-185, filed 12/19/86; 85-02-048 (Order 84-5, Resolution No. 84-5), § 296-116-185, filed 12/31/84; 83-15-012 (Order 83-3, Resolution No. 83-3), § 296-116-185, filed 7/12/83; 82-08-016 (Order 82-1, Resolution No. 82-1), § 296-116-185, filed 3/29/82; 81-07-009 (Order 81-1, Resolution No. 81-1), § 296-116-185, filed 3/6/81; 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-185, filed 3/4/80; Order 2-68, § 296-116-185, filed 11/1/68.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-185.

296-116-190 Hearings. [Order 2-68, § 296-116-190, filed 11/1/68.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-200 Duties of pilots. [Statutory Authority: RCW 88.16. RCW. 97-06-106, § 296-116-200, filed 3/5/97, effective 4/5/97; Order 73-6, § 296-116-200, filed 5/11/73; Order 2-68, § 296-116-200, filed 11/1/68; § 20, effective 11/25/58.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-200.

296-116-205 Vessel certification. [Statutory Authority: RCW 88.16.035. 82-13-087 (Order 82-10-049, Resolution No. 82-10-049), § 296-116-205, filed 6/23/82; 79-11-063 (Order 79-5, Resolution No. 79-5), § 296-116-205, filed 10/18/79. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-205, filed 8/23/78.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-205.

296-116-2051 Vessel certification form. [Statutory Authority: RCW 88.16.155(7). 92-08-052, § 296-116-2051, filed 3/26/92, effective 4/26/92. Statutory Authority: RCW 88.16.035 and 88.16.155. 83-16-032 (Order 83-4, Resolution No. 83-4), § 296-116-2051, filed 7/28/83. Statutory Authority: RCW 88.16.155. 79-11-097 (Order 79-6, Resolution No. 79-6), § 296-116-2051, filed 10/29/79. Statutory Authority: RCW 88.16.035 and 88.16.155. 78-09-057 (Order 78-2, Resolution No. 78-2), § 296-116-2051, filed 8/23/78.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-2051.

296-116-210 Annual report. [Order 2-68, § 296-116-210, filed 11/1/68; § 21, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-220 Effective date and validity. [Order 2-68, § 296-116-220, filed 11/1/68; § 22, effective 11/25/58.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-300 Pilotage rates for the Puget Sound pilotage district. [Statutory Authority: RCW 88.16.035. 96-12-017, § 296-116-300, filed 5/29/96, effective 7/1/96; 95-12-018, § 296-116-300, filed 5/30/95, effective 7/1/95; 94-12-044, § 296-116-300, filed 5/27/94, effective 7/1/94; 93-12-133, § 296-116-300, filed 6/2/93, effective 7/3/93; 92-14-007, § 296-116-300, filed 6/19/92, effective 7/20/92; 91-11-074, § 296-116-300, filed 5/20/91, effective 6/20/91; 90-20-116, § 296-116-300, filed 10/2/90, effective 11/2/90; 90-08-095, § 296-116-300, filed 4/4/90, effective 5/5/90; 89-08-041 (Order 89-2, Resolution No. 89-2), § 296-116-300, filed 3/31/89. Statutory Authority: RCW 88.16.050. 88-05-039 (Order 88-1, Resolution No. 88-1), § 296-116-300, filed 2/16/88, effective 3/18/88. Statutory Authority: RCW 88.16.035(4). 87-01-081 (Orders 86-9 and 86-10, Resolution Nos. 86-9 and 86-10), § 296-116-300, filed 12/19/86; 86-19-066 (Order 86-6, Resolution No. 86-6), § 296-116-300, filed 9/16/86; 86-02-035 (Order 86-1, Resolution No. 86-1), § 296-116-300, filed 12/30/85; 85-02-048 (Order 84-5, Resolution No. 84-5), § 296-116-300, filed 12/31/84; 84-04-006 (Order 84-1, Resolution No. 84-1), § 296-116-300, filed 1/20/84; 83-17-055 (Order 83-6, Resolution No. 83-6), § 296-116-300, filed 8/17/83; 82-13-065 (Order 82-4, Resolution No. 82-4), § 296-116-300, filed 6/16/82. Statutory Authority: RCW 88.16.035. 81-12-017 (Order 81-2, Resolution No. 81-2), § 296-116-300, filed 5/29/81; 80-06-084 (Order 80-1, Resolution No. 80-1), § 296-116-300, filed 5/28/80. Statutory Authority: RCW 88.16.035(4). 79-07-033 (Order 79-4, Resolution No. 79-4), § 296-116-300, filed 6/19/79. Statutory Authority: Chapter 88.16 RCW and 1977 ex. sess. c 337, §§ 1 and 4. 78-02-008 (Order 78-1), § 296-116-300, filed 1/6/78, effective 2/10/78; Order 77-18, § 296-116-300, filed 9/20/77, effective 11/1/77; Order 76-24, § 296-116-300, filed 7/22/76; Order 75-3, § 296-116-300, filed 2/10/75; Order 74-2, § 296-116-300, filed 1/8/74; Order 73-8, § 296-116-300, filed 6/20/73 and Emergency Order 73-10, filed 7/19/73, effective 8/14/73; Order 70-7, § 296-116-300, filed 7/16/70; 7/25/67; 2/18/64; 10/29/62; 12/28/60; 3/23/60.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-300.

296-116-310 Puget Sound pilots transportation schedule. [Order 77-18, § 296-116-310, filed 9/20/77, effective 11/1/77; Order 76-24, § 296-116-310, filed 7/22/76; Order 73-8, § 296-116-310, filed 6/20/73 and Emergency Order 73-10, filed 7/19/73, effective 8/14/73; Order 70-7, § 296-116-310, filed 7/16/70; 7/25/67; 2/18/64.] Repealed by 80-03-081 (Order 79-6, Resolution No.79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-315 Retirement disbursements. [Statutory Authority: RCW 88.16.035. 91-06-033, § 296-116-315, filed 2/26/91, effective 3/29/91.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-315.

296-116-320 Retirement fund contribution. [Statutory Authority: RCW 88.16.035. 83-05-049 (Order 83-2, Resolution No. 83-2), § 296-116-320, filed 2/16/83; 82-13-087 (Order 82-10-049, Resolution No. 82-10-049), § 296-116-320, filed 6/23/82; 80-03-081 (Order 79-6, Resolution No. 79-6), § 296-116-320, filed 3/4/80. Statutory Authority: Chapter 88.16 RCW and 1977 ex. sess. c 337, §§ 1 and 4. 78-02-008 (Order 78-1), § 296-116-320, filed 1/6/78, effective 2/10/78; Order 77-18, § 296-116-320, filed 9/20/77, effective 11/1/77; Order 76-24, § 296-116-320, filed 7/22/76; Order 76-12, § 296-116-320, filed 4/22/76; Order 73-8, § 296-116-320, filed 6/20/73 and Emergency Order 73-10, filed 7/19/73, effective 8/14/73; Order 70-7, § 296-116-320, filed 7/16/70; 7/25/67.] Repealed by 88-10-039 (Order 88-11, Resolution No. 88-11), filed 5/3/88. Statutory Authority: RCW 88.16.035.

296-116-330 Marine pilot—Trip insurance. [Statutory Authority: RCW 88.16.117. 83-03-037 (Order 83-1, Resolution No. 83-1), § 296-116-330, filed 1/17/83.] Repealed by 84-11-041 (Order 84-3, Resolution No. 84-3), filed 5/16/84. Statutory Authority: RCW 88.16.035(1).

296-116-350 Tariff, Grays Harbor and Willapa Bay pilots. [Order 71-4, § 296-116-350, filed 5/11/71, effective 6/15/71; Order 2-67 (part), filed 8/3/67, effective 9/5/67; Emergency Rule 1-67, filed 6/8/67.] Repealed by Order 75-1, filed 1/14/75.

296-116-35001 Exemption from provisions of WAC 197-10-800. [Order 76-14, § 296-116-350 (codified as WAC 296-116-35001), filed 5/6/76.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-35001.

296-116-351 Pilotage rates for Grays Harbor and Willapa Bay pilotage district. [Statutory Authority: RCW 88.16.035. 79-05-023 (Order 79-2, Resolution No. 79-2), § 296-116-351, filed 4/17/79; Statutory Authority: RCW 88.16.005 and 88.16.035. 79-02-030 (Order 79-1, Resolution No. 79-1), § 296-116-351, filed 1/19/79; 78-02-008 (Order 78-1), § 296-116-351, filed 1/6/78, effective 2/10/78; Order 75-1, § 296-116-351, filed 1/14/75.] Repealed by 80-03-081 (Order 79-6, Resolution No. 79-6), filed 3/4/80. Statutory Authority: RCW 88.16.035.

296-116-360 Exempt vessels. [Statutory Authority: RCW 88.16.070. 93-07-077, § 296-116-360, filed 3/18/93, effective 4/18/93; 90-20-039, § 296-116-360, filed 9/25/90, effective 10/26/90; 88-09-015 (Order 88-6, Resolution No. 88-6), § 296-116-360, filed 4/13/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-360.

296-116-370 System of specified disciplinary or corrective actions. [Statutory Authority: RCW 88.16.100. 88-14-062 (Order 88-14, Resolution No. 88-14), § 296-116-370, filed 7/1/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-370.

296-116-400 Procedure for request by steamship company or agent that certain pilots not be assigned to certain vessels for specific safety reasons. [Statutory Authority: RCW 88.16.035. 88-09-016 (Order 88-7, Resolution No. 88-7), § 296-116-400, filed 4/13/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-400.

296-116-410 Definition of Grays Harbor pilotage district. [Statutory Authority: RCW 88.16.050. 88-09-017 (Order 88-8, Resolution No. 88-8), § 296-116-410, filed 4/13/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-410.

296-116-420 Summary/temporary license suspension. [Statutory Authority: RCW 88.16.100. 88-10-040 (Order 88-12, Resolution No. 88-12), § 296-116-420, filed 5/3/88.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-420.

296-116-500 Tug escort requirements for oil tankers. [Statutory Authority: RCW 88.16.190(2). 94-07-079, § 296-116-500, filed 3/16/94, effective 4/16/94.] Decodified by 97-08-042, filed 3/28/97, effective 3/28/97. Recodified as WAC 363-116-500.

Chapter 296-124
RULES AND REGULATIONS FOR THE ADMINISTRATION OF THE THEATRICAL ENTERPRISE ACT

296-124-010 Definitions. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-010, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

296-124-020 Bond or cash deposit. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-020, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

296-124-021 Statement of intent to hire. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-021, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

296-124-022 Filing claim for wages against bond or cash deposit. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-022, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

296-124-040 Multiple events. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-040, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

296-124-050 Failure to post bond. [Statutory Authority: RCW 49.38.070. 85-03-065 (Order 85-4), § 296-124-050, filed 1/16/85.] Repealed by 98-14-042, filed 6/24/98, effective 7/25/98. Statutory Authority: Chapters 49.38 and 34.05 RCW and Executive Order 97-02.

Chapter 296-129
INDUSTRIAL WELFARE COMMITTEE APPEAL PROCEDURES

296-129-020 Appeal briefs. [Order 74-9, § 296-129-020, filed 3/13/74, effective 4/15/74.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-129-030 Appeal briefs—Contents. [Order 74-9, § 296-129-030, filed 3/13/74, effective 4/15/74.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

296-129-040 Record on appeal. [Order 74-9, § 296-129-040, filed 3/13/74, effective 4/15/74.] Repealed by 97-17-064, filed 8/18/97, effective 9/18/97.

Chapter 296-132
PUBLIC EMPLOYEES' COLLECTIVE BARGAINING RULES

296-132-005 Purpose. [Order 70-1, § 296-132-005, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-010 Policy. [Order 70-1, § 296-132-010, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-015 Construction. [Order 70-1, § 296-132-015, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-050 General. [Order 70-1, § 296-132-050, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-055 Petitioner. [Order 70-1, § 296-132-055, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-060 Authorized agent. [Order 70-1, § 296-132-060, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-065 Labor organization, lawful organization. [Order 70-1, § 296-132-065, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-070 Supervisor. [Order 70-1, § 296-132-070, filed 3/10/70.] Repealed by Emergency and Permanent Order 70-13, filed 12/1/70, effective 1/1/71.

296-132-075 Rule temporary. [Order 70-1, § 296-132-075, filed 3/10/70]] Repealed by Emergency and Permanent Order 70-13, filed 12/1/70, effective 1/1/71.

296-132-100 Initiation. [Order 73-26, § 296-132-100, filed 12/10/73; Order 70-1, § 296-132-100, filed 3/10/70. Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-105 Filing of petition. [Order 73-26, § 296-132-105, filed 12/10/73; Order 70-1, § 296-132-105, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-110 Contents of petition—General. [Order 70-1, § 296-132-110, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-115 Contents of petition—Filed by public employees. [Order 73-26, § 296-132-115, filed 12/10/73; Order 70-1, § 296-132-115, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-120 Contents of petition—Filed by public employer. [Order 73-26, § 296-132-120, filed 12/10/73; Permanent and Emergency Order 70-13, § 296-132-120, filed 12/1/70, effective 1/1/71; Order 70-1, § 296-132-120, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-125 Intervention. [Order 73-26, § 296-132-125, filed 12/10/73; Order 70-1, § 296-132-125, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-130 Initial action. [Order 70-1, § 296-132-130, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-135 Petition—Amendments or withdrawal. [Order 70-1, § 296-132-135, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-140 Decertification. [Order 73-26, § 296-132-140, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-145 Severance. [Order 73-26, § 296-132-145, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-150 Determination of nature and scope. [Permanent and Emergency Order 70-13, § 296-132-150, filed 12/1/70, effective 1/1/71; Order 70-1, § 296-132-150, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-151 Unit clarification. [Order 73-26, § 296-132-151, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-152 Union membership. [Order 73-26, § 296-132-152, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-155 Special election. [Order 70-1, § 296-132-155, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-160 List of employees. [Order 73-26, § 296-132-160, filed 12/10/73; Order 70-1, § 296-132-160, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-165 Rule temporary. [Order 70-1, § 296-132-165, filed 3/10/70.] Repealed by Emergency and Permanent Order 70-13, filed 12/1/70, effective 1/1/71.

296-132-200 Selection of representation method. [Order 70-1, § 296-132-200, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

296-132-205 Two or more organizations. [Order 70-1, § 296-132-205, filed 3/10/70.] Repealed by 86-08-015 (Order 86-

20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-210 Examination of membership rolls. [Order 70-1, § 296-132-210, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-215 Use of authorization cards. [Order 70-1, § 296-132-215, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-220 Authorization cards—Acceptability. [Order 70-1, § 296-132-220, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-225 Conduct of election. [Order 73-26, § 296-132-225, filed 12/10/73; Order 70-1, § 296-132-225, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-226 Central filing—Arbitration and fact-finding. [Order 73-26, § 296-132-226, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-250 Certification. [Order 70-1, § 296-132-250, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-255 Noncertification. [Order 70-1, § 296-132-255, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-260 Time extensions. [Order 73-26, § 296-132-260, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-265 Bypass of steps. [Order 73-26, § 296-132-265, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-300 Unfair labor practice—Who may file. [Order 70-1, § 296-132-300, filed 3/10/70.]]
296-132-301 Unfair labor practices—Who may file. [Order 73-26, § 296-132-301, filed 12/10/73; Permanent and Emergency Order 70-13, § 296-132-301, filed 12/1/70, effective 1/1/71. Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-302 Unfair labor practice presumed—Change of conditions during bargaining. [Order 73-26, § 296-132-302, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-305 Filing of charges. [Order 70-1, § 296-132-305, filed 3/10/70.]]
296-132-306 Filing of charges. [Permanent and Emergency Order 70-13, § 296-132-306, filed 12/1/70, effective 1/1/71. Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-310 Investigation. [Order 70-1, § 296-132-310, filed 3/10/70.]]
296-132-311 Investigation. [Permanent and Emergency Order 70-13, § 296-132-311, filed 12/1/70, effective 1/1/71. Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-315 Remedies. [Order 70-1, § 296-132-315, filed 3/10/70.]]
296-132-316 Remedies. [Permanent and Emergency Order 70-13, § 296-132-316, filed 12/1/70, effective 1/1/71. Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-320 Rules temporary. [Order 70-1, § 296-132-320, filed 3/10/70.] Repealed by Emergency and Permanent Order 70-13, filed 12/1/70, effective 1/1/71.
296-132-350 Appeal procedure. [Order 73-26, § 296-132-350, filed 12/10/73; Order 70-1, § 296-132-350, filed 3/10/70.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-360 Appeal briefs. [Order 73-26, § 296-132-360, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-370 Appeal briefs—Contents. [Order 73-26, § 296-132-370, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.
296-132-380 Record on appeal. [Order 73-26, § 296-132-380, filed 12/10/73.] Repealed by 86-08-015 (Order 86-20), filed 3/25/86. Statutory Authority: RCW 51.04.020.

Chapter 296-150
FACTORY BUILT HOUSING AND GOVERNOR'S ADVISORY BOARD ADMINISTRATIVE RULES

296-150-010 Administration—Authority for factory-built housing code. [Order 73-25, § 296-150-010, filed 12/3/73; Order 71-1, § 296-150-010, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-015 Application and scope. [Order 73-25, § 296-150-015, filed 12/3/73; Order 71-1, § 296-150-015, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-020 Department services. [Order 73-25, § 296-150-020, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-025 Conditions of reciprocity. [Order 74-10, § 296-150-025, filed 4/8/74; Order 73-13, § 296-150-025, filed 7/31/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-026 Agreements with out-of-state jurisdictions. [Order 73-25, § 296-150-026, filed 12/3/73; Order 73-13, § 296-150-026, filed 7/31/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-027 Educational. [Order 73-25, § 296-150-027, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-050 Definitions—General. [Order 73-25, § 296-150-050, filed 12/3/73; Order 71-1, § 296-150-050, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-055 Definitions—A. Agency inspection. [Order 71-1, § 296-150-055, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-060 Definitions—Agency, listing. [Order 71-1, § 296-150-060, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-065 Definitions—Agency, testing. [Order 71-1, § 296-150-065, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-070 Definitions—Alteration or conversion. [Order 71-1, § 296-150-070, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-075 Definitions—Approved. [Order 71-1, § 296-150-075, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-080 Definitions—B. Building site. [Order 71-1, § 296-150-080, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-085 Definitions—C. Custom building. [Order 71-1, § 296-150-085, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-090 Definitions—D. Department. [Order 71-1, § 296-150-090, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-095 Definitions—Dwelling units. [Order 71-1, § 296-150-095, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-100 Definitions—E. Equipment. [Order 71-1, § 296-150-100, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-105 Definitions—F. Factory built housing (F.B.H.). [Order 71-1, § 296-150-105, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-110 Definitions—Field technical service. [Order 71-1, § 296-150-110, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-115 Definitions—First user. [Order 71-1, § 296-150-115, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-120 Definitions—G. No definition. [Order 71-1, § 296-150-120, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-130 Definitions—H. Habitable room. [Order 71-1, § 296-150-130, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-140 Definitions—I. Insignia. [Order 71-1, § 296-150-140, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-145 Definitions—Install. [Order 71-1, § 296-150-145, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-150 Definitions—J. No definition. [Order 71-1, § 296-150-150, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-160 Definitions—K. No definition. [Order 71-1, § 296-150-160, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-170 Definitions—L. Labeled. [Order 71-1, § 296-150-170, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-175 Definitions—Listed. [Order 71-1, § 296-150-175, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-180 Definitions—Local enforcement agency. [Order 71-1, § 296-150-180, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-185 Definitions—M. Manufacture. [Order 71-1, § 296-150-185, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-190 Definitions—N. No definition. [Order 71-1, § 296-150-190, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-200 Definitions—O. No definition. [Order 71-1, § 296-150-200, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-210 Definitions—P. No definition. [Order 71-1, § 296-150-210, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-220 Definitions—Q. No definition. [Order 71-1, § 296-150-220, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-230 Definitions—R. Residential building. [Order 71-1, § 296-150-230, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-240 Definitions—S. Substantially prefabricated or assembled. [Order 71-1, § 296-150-240, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-245 Definitions—System. [Order 71-1, § 296-150-245, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-250 Definitions—T. No definition. [Order 71-1, § 296-150-250, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-260 Definitions—U. No definition. [Order 71-1, § 296-150-260, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-270 Definitions—V. No definition. [Order 71-1, § 296-150-270, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-280 Definitions—W. No definition. [Order 71-1, § 296-150-280, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-290 Definitions—X. No definition. [Order 71-1, § 296-150-290, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-300 Definitions—Y. No definition. [Order 71-1, § 296-150-300, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-310 Definitions—Z. No definition. [Order 71-1, § 296-150-310, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.

296-150-315 Construction requirements. [Order 73-25, § 296-150-315, filed 12/3/73; Order 71-1, § 296-150-315, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-320 Electrical requirements. [Order 75-5, § 296-150-320, filed 3/5/75; Order 73-25, § 296-150-320, filed 12/3/73; Order 71-1, § 296-150-320, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-325 Mechanical requirements. [Order 73-25, § 296-150-325, filed 12/3/73; Order 71-1, § 296-150-325, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-330 Plumbing requirements. [Order 73-25, § 296-150-330, filed 12/3/73; Order 71-1, § 296-150-330, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-335 Code research and materials evaluation service. [Order 73-25, § 296-150-335, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-400 Enforcement and administration—Enforcement. [Order 71-1, § 296-150-400, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-405 Enforcement and administration—Equipment and systems. [Order 71-1, § 296-150-405, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-410 Enforcement and administration—Department disapproval of listed or labeled equipment and systems. [Order 71-1, § 296-150-410, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-415 Alternates and equivalents. [Order 73-25, § 296-150-415, filed 12/3/73; Order 71-1, § 296-150-415, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-420 Inspections. [Order 73-25, § 296-150-420, filed 12/3/73; Order 71-1, § 296-150-420, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-423 Compliance control programs (CC). [Order 73-25, § 296-150-423, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-424 Factory-built housing—Compliance control (FBH-CC). [Order 73-25, § 296-150-424, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-425 Local enforcement agency—Compliance control (LEA-CC). [Order 73-25, § 296-150-425, filed 12/3/73; Order 71-1, § 296-150-425, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-430 Local enforcement agency application. [Order 73-25, § 296-150-430, filed 12/3/73; Order 71-1, § 296-150-430, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-435 Rights of local enforcement agency. [Order 73-25, § 296-150-435, filed 12/3/73; Order 71-1, § 296-150-435, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-440 The local enforcement agency responsibility. [Order 73-25, § 296-150-440, filed 12/3/73; Order 71-1, § 296-150-440, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-445 Manufacturer compliance control (M-CC). [Order 73-25, § 296-150-445, filed 12/3/73; Order 71-1, § 296-150-445, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-450 Independent inspection agency compliance control (IIA-CC). [Order 73-25, § 296-150-450, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-500 Design plan approval—General. [Order 73-25, § 296-150-500, filed 12/3/73; Order 71-1, § 296-150-500, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-505 Design plan approval application. [Order 73-25, § 296-150-505, filed 12/3/73; Order 71-1, § 296-150-505, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-506 Design plan types and descriptions. [Order 73-25, § 296-150-506, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-510 Engineering and test procedures. [Order 73-25, § 296-150-510, filed 12/3/73; Order 71-1, § 296-150-510, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-515 Design plan requirements. [Order 73-25, § 296-150-515, filed 12/3/73; Order 71-1, § 296-150-515, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-516 Technical report. [Order 73-25, § 296-150-516, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-520 Technical report—Live loads. [Order 71-1, § 296-150-520, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-525 Manufacturing in more than one location. [Order 73-25, § 296-150-525, filed 12/3/73; Order 71-1, § 296-150-525, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-530 Out-of-state applicant. [Order 73-25, § 296-150-530, filed 12/3/73; Order 71-1, § 296-150-530, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-535 Out-of-state applicant—Nonconforming application and plans. [Order 71-1, § 296-150-535, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-540 Manufacturers evidence of department approval. [Order 73-25, § 296-150-540, filed 12/3/73; Order 71-1, § 296-150-540, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-545 Design plan approval expiration. [Order 73-25, § 296-150-545, filed 12/3/73; Order 71-1, § 296-150-545, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-550 Revocation of approval. [Order 73-25, § 296-150-550, filed 12/3/73; Order 71-1, § 296-150-550, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-555 Changes to approved plans. [Order 73-25, § 296-150-555, filed 12/3/73; Order 71-1, § 296-150-555, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-560 Transfer of approvals. [Order 73-25, § 296-150-560, filed 12/3/73; Order 71-1, § 296-150-560, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

296-150-565 Change of name and address. [Order 73-25, § 296-150-565, filed 12/3/73; Order 71-1, § 296-150-565, filed

2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-570 Discontinuance of manufacture. [Order 73-25, § 296-150-570, filed 12/3/73; Order 71-1, § 296-150-570, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-575 Existing approvals. [Order 73-25, § 296-150-575, filed 12/3/73; Order 71-1, § 296-150-575, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-580 Compliance. [Order 73-25, § 296-150-580, filed 12/3/73; Order 71-1, § 296-150-580, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-585 Design plan approval—Custom building. [Order 71-1, § 296-150-585, filed 2/11/71.] Repealed by Order 73-25, filed 12/3/73.
296-150-590 Field erection. [Order 73-25, § 296-150-590, filed 12/3/73; Order 71-1, § 296-150-590, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-595 Proprietary material. [Order 73-25, § 296-150-595, filed 12/3/73; Order 71-1, § 296-150-595, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-600 Insignia—Insignia required. [Order 71-1, § 296-150-600, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-605 Application for insignia. [Order 73-25, § 296-150-605, filed 12/3/73; Order 71-1, § 296-150-605, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-606 Agreement of work completion (AWC). [Order 73-25, § 296-150-606, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-610 Alteration or conversion. [Order 73-25, § 296-150-610, filed 12/3/73; Order 71-1, § 296-150-610, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-615 Alteration or conversion—Denial of insignia. [Order 71-1, § 296-150-615, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-620 Alteration or conversion—Insignia removal. [Order 71-1, § 296-150-620, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-625 Lost or damaged insignia. [Order 73-25, § 296-150-625, filed 12/3/73; Order 71-1, § 296-150-625, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-630 Custom building. [Order 73-25, § 296-150-630, filed 12/3/73; Order 71-1, § 296-150-630, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-640 Unauthorized use. [Order 73-25, § 296-150-640, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-650 Unit identification. [Order 73-25, § 296-150-650, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-675 Components. [Order 73-25, § 296-150-675, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-680 Components application. [Order 73-25, § 296-150-680, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-685 Components approval. [Order 73-25, § 296-150-685, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-690 Components testing. [Order 73-25, § 296-150-690, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-695 Components fees and production reports. [Order 73-25, § 296-150-695, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-700 Fee schedule. [Order 73-25, § 296-150-700, filed 12/3/73; Order 71-1, § 296-150-700, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-800 Hearings—Public hearing. [Order 71-1, § 296-150-800, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-805 Hearings—Board of appeals. [Order 71-1, § 296-150-805, filed 2/11/71.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-815 Foreword. [Order 73-25, § 296-150-815, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-820 Definitions. [Order 73-25, § 296-150-820, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-825 Officers. [Order 73-25, § 296-150-825, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-830 Internal management. [Order 73-25, § 296-150-830, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-835 Duties. [Order 73-25, § 296-150-835, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-840 Hearings. [Order 73-25, § 296-150-840, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-845 Appearance and practice before the board. [Order 73-25, § 296-150-845, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-850 Solicitation of business unethical. [Order 73-25, § 296-150-850, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-855 Standards of ethical conduct. [Order 73-25, § 296-150-855, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-860 Appearance by former employee. [Order 73-25, § 296-150-860, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-865 Former employee as expert witness. [Order 73-25, § 296-150-865, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-870 Computation of time. [Order 73-25, § 296-150-870, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.
296-150-875 Administrative Procedure Act. [Order 73-25, § 296-150-875, filed 12/3/73.] Repealed by Order 77-8, filed 4/29/77, effective 6/1/77.

Chapter 296-150A
RULES AND REGULATIONS FOR FACTORY-BUILT HOUSING AND COMMERCIAL STRUCTURES AND GOVERNOR'S ADVISORY BOARD ADMINISTRATIVE RULES

296-150A-005 Application and scope. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-005, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-005, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.
296-150A-010 Administration—Authority for factory-built housing and commercial structures code. [Order 77-8, § 296-150A-010, filed 4/29/77; Order 74-15, § 296-150A-010, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.
296-150A-011 Enforcement. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-011, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.
296-150A-015 Application and scope. [Order 77-8, § 296-150A-015, filed 4/29/77; Order 74-15, § 296-150A-015, filed 4/30/74]] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.
296-150A-016 Definitions. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-016, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-016, filed 5/20/82. Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.
296-150A-020 Department services. [Order 77-8, § 296-150A-020, filed 4/29/77; Order 74-15, § 296-150A-020, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.
296-150A-021 Insignia of approval—In general. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-021, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.
296-150A-024 Filing a design plan. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-024, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority:

RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-025 Conditions of reciprocity. [Order 77-8, § 296-150A-025, filed 4/29/77; Order 74-15, § 296-150A-025, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-026 Acceptance from out-of-state jurisdictions. [Order 77-8, § 296-150A-026, filed 4/29/77; Order 74-15, § 296-150A-026, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-027 Educational. [Order 77-8, § 296-150A-027, filed 4/29/77; Order 74-15, § 296-150A-027, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-030 Requirements for design plans. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-030, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-035 Engineering analysis and test procedures. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-035, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-040 Department check of the design plan. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-040, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-040, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-045 Resubmittal of corrected design plan. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-045, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-050 Definitions—General. [Order 77-8, § 296-150A-050, filed 4/29/77; Order 74-15, § 296-150A-050, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-051 Application for approval of a compliance control manual. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-051, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-055 Changes to a design plan or an approved compliance control manual. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-055, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-060 Renewal of a design plan. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-060, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-065 Trade secrets. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-065, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-070 Applications for inspection and insignia for factory-built structures and components. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-070, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-075 Applications for insignia for factory-built structures and components. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-075, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-080 Inspections at a manufacturer's plant by a local enforcement agency, an independent inspection agency, or the manufacturer. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-080, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-085 Other inspections by the department. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-085, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-090 Action after inspection. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-090, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-095 Inspection of factory-built structures after installation at the building site. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-095, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-100 Complaint investigations. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-100, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-100, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-105 Fee required if a structure or component is not ready for inspection. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-105, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-105, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-110 Alterations. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-110, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-115 Application for alteration insignia and approval of alteration. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-115, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-120 Lost or damaged insignia. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-120, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-125 Notice of noncompliance. [Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-125, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-125, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-130 Prohibited sale or lease notice. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-130, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-135 Approval of equipment. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-135, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-140 Department approval of listing and testing agencies, licensed professional engineers, and licensed architects. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-140, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-145 Approval of alternates. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-145, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-150 Manufacturing in more than one location. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-150, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-155 Change of name, address, or ownership. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-155, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-160 Discontinuance of a product line. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-160, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-170 Reciprocal agreements. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-170, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-300 Construction standards for factory-built structures. [Statutory Authority: RCW 43.22.475 and 43.22.480. 86-19-081 (Order 86-21), § 296-150A-300, filed 9/17/86. Statutory Authority: RCW 43.22.470, 43.22.480 and 43.22.490. 85-05-026 (Order 85-1), § 296-150A-300, filed 2/15/85. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-300, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-315 Construction requirements. [Order 77-8, § 296-150A-315, filed 4/29/77; Order 74-15, § 296-150A-315, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-320 Electrical requirements. [Order 77-8, § 296-150A-320, filed 4/29/77; Order 75-5, § 296-150A-320, filed 3/5/75; Order 74-15, § 296-150A-320, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-325 Mechanical requirements. [Order 77-8, § 296-150A-325, filed 4/29/77; Order 74-15, § 296-150A-325, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-330 Plumbing requirements. [Order 77-8, § 296-150A-330, filed 4/29/77; Order 74-15, § 296-150A-330, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-333 Handicap standards. [Order 77-8, § 296-150A-333, filed 4/29/77.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-335 Code research and materials evaluation service. [Order 74-15, § 296-150A-335, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-400 Enforcement and administration—Enforcement. [Order 77-8, § 296-150A-400, filed 4/29/77; Order 74-15, § 296-150A-400, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-405 Equipment and systems. [Order 74-15, § 296-150A-405, file 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-410 Department disapproval of listed or labeled equipment and systems. [Order 74-15, § 296-150A-410, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-415 Alternates and equivalents. [Order 74-15, § 296-150A-415, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-417 Prohibited notice. [Order 77-8, § 296-150A-417, filed 4/29/77.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-420 Inspections. [Order 77-8, § 296-150A-420, filed 4/29/77; Order 74-15, § 296-150A-420, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-423 Compliance control programs (CC). [Order 77-8, § 296-150A-423, filed 4/29/77; Order 74-15, § 296-150A-423, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-424 Factory-built—Compliance control (FB-CC). [Order 77-8, § 296-150A-424, filed 4/29/77; Order 74-15, § 296-150A-424, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-425 Local enforcement agency—Compliance control (LEA-CC). [Order 74-15, § 296-150A-425, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-430 Local enforcement agency application. [Order 74-15, § 296-150A-430, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-435 The local enforcement agency. [Order 74-15, § 296-150A-435, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-440 The local enforcement agency responsibility. [Order 77-8, § 296-150A-440, filed 4/29/77; Order 74-15, § 296-150A-440, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-445 Manufacturer compliance control (M-CC). [Order 74-15, § 296-150A-445, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-450 Independent inspection agency compliance control (IIA-CC). [Order 74-15, § 296-150A-450, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-500 Design plan approval—General. [Order 77-8, § 296-150A-500, filed 4/29/77; Order 74-15, § 296-150A-500, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-505 Design plan approval application. [Order 74-15, § 296-150A-505, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-506 Design plan types and descriptions. [Order 77-15, § 296-150A-506, filed 8/19/77; Order 74-15, § 296-150A-506, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-510 Engineering and test procedures. [Order 74-15, § 296-150A-510, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-515 Design plan requirements. [Order 77-15, § 296-150A-515, filed 8/19/77; Order 74-15, § 296-150A-515, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-516 Technical report. [Order 74-15, § 296-150A-516, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-520 Live loads. [Order 77-15, § 296-150A-520, filed 8/19/77; Order 74-15, § 296-150A-520, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-521 Plastic DWV piping. [Order 77-15, § 296-150A-521, filed 8/19/77; Order 74-15, § 296-150A-521, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-525 Manufacturing in more than one location. [Order 74-15, § 296-150A-525, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-530 Out-of-state applicant. [Order 77-8, § 296-150A-530, filed 4/29/77; Order 74-15, § 296-150A-530, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-535 Nonconforming application and plans. [Order 74-15, § 296-150A-535, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-540 Manufacturers evidence of department approval. [Order 74-15, § 296-150A-540, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-545 Design plan approval expiration. [Order 77-15, § 296-150A-545, filed 8/19/77; Order 74-15, § 296-150A-545, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-550 Revocation of approval. [Order 74-15, § 296-150A-550, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-555 Changes to approved plans. [Order 77-15, § 296-150A-555, filed 8/19/77; Order 74-15, § 296-150A-555, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-560 Transfer of approvals. [Order 77-15, § 296-150A-560, filed 8/19/77; Order 74-15, § 296-150A-560, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-565 Change of name or address. [Order 74-15, § 296-150A-565, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-570 Discontinuance of manufacturer. [Order 74-15, § 296-150A-570, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-575 Existing approvals. [Order 74-15, § 296-150A-575, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-580 Compliance. [Order 77-15, § 296-150A-580, filed 8/19/77; Order 74-15, § 296-150A-580, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-585 Contingency. [Order 77-8, § 296-150A-585, filed 4/29/77.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-590 Field erection. [Order 74-15, § 296-150A-590, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-595 Proprietary material. [Order 74-15, § 296-150A-595, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-600 Insignia—Insignia required. [Order 77-8, § 296-150A-600, filed 4/29/77; Order 74-15, § 296-150A-600, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-605 Application for insignia. [Order 77-15, § 296-150A-605, filed 8/19/77; Order 74-15, § 296-150A-605, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-606 Notification to local enforcement agency. [Order 77-8, § 296-150A-606, filed 4/29/77; Order 74-15, § 296-150A-606, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-610 Alteration or conversion. [Order 77-8, § 296-150A-610, filed 4/29/77; Order 74-15, § 296-150A-610, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-615 Denial of insignia. [Order 74-15, § 296-150A-615, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-620 Insignia removal. [Order 77-15, § 296-150A-620, filed 8/19/77; Order 74-15, § 296-150A-620, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-625 Lost or damaged insignia. [Order 74-15, § 296-150A-625, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-630 Custom building. [Order 74-15, § 296-150A-630, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-640 Unauthorized use. [Order 74-15, § 296-150A-640, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-650 Unit identification. [Order 74-15, § 296-150A-650, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-675 Components. [Order 74-15, § 296-150A-675, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-680 Components application. [Order 77-15, § 296-150A-680, filed 8/19/77; Order 74-15, § 296-150A-680, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-685 Components approval. [Order 74-15, § 296-150A-685, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-690 Components testing. [Order 74-15, § 296-150A-690, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-695 Components fees and production reports. [Order 77-8, § 296-150A-695, filed 4/29/77; Order 74-15, § 296-150A-695, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-700 Fee schedule. [Order 77-8, § 296-150A-700, filed 4/29/77; Order 74-15, § 296-150A-700, filed 4/30/74.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-710 Department application forms. [Order 77-15, § 296-150A-710, filed 8/19/77.] Repealed by 82-12-004 (Order 82-19), filed 5/20/82. Statutory Authority: RCW 43.22.475 and 43.22.480.

296-150A-800 Hearings—Public hearing. [Order 74-15, § 296-150A-800, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-805 Board of appeals. [Order 77-8, § 296-150A-805, filed 4/29/77; Order 74-15, § 296-150A-805, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-815 Foreword. [Order 74-15, § 296-150A-815, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-820 Definitions. [Order 74-15, § 296-150A-820, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-825 Officers. [Order 74-15, § 296-150A-825, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-830 Internal management. [Order 74-15, § 296-150A-830, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-835 Duties. [Order 74-15, § 296-150A-835, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-840 Hearings. [Order 74-15, § 296-150A-840, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-845 Appearance and practice before the board. [Order 74-15, § 296-150A-845, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-850 Solicitation of business unethical. [Order 74-15, § 296-150A-850, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-855 Standards of ethical conduct. [Order 74-15, § 296-150A-855, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-860 Appearance by former employee. [Order 74-15, § 296-150A-860, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-865 Former employee as expert witness. [Order 74-15, § 296-150A-865, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-870 Computation of time. [Order 74-15, § 296-150A-870, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-875 Administrative Procedure Act. [Order 74-15, § 296-150A-875, filed 4/30/74.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-950 Hearing on aggrievances. [Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-950, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150A-990 Fees. [Statutory Authority: RCW 43.22.440, 43.22.475 and 43.22.480. 82-12-040 (Order 82-20), § 296-150A-990, filed 5/28/82. Statutory Authority: RCW 43.22.475 and 43.22.480. 82-12-004 (Order 82-19), § 296-150A-990, filed 5/20/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

Chapter 296-150B
STANDARDS FOR MOBILE HOMES, COMMERCIAL COACHES, AND RECREATIONAL VEHICLES

296-150B-005 Application and scope. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-005, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-010 Enforcement. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-010, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-015 Definitions. [Statutory Authority: RCW 43.22.340 through 43.22.445. 89-05-016 (Order 88-31), § 296-150B-015, filed 2/9/89; 88-19-010 (Order 88-19), § 296-150B-015, filed 9/9/88; 86-21-136 (Order 86-32), § 296-150B-015, filed 10/22/86. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-015, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-020 Insignia of approval—In general. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-020, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-025 Application for approval of a design plan. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-025, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-030 Requirements for design plans. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-030, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-035 Engineering analysis and test procedures. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-035, filed 10/14/87. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-035, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-040 Department approval of the design plan. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-040, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-045 Resubmittal of corrected design plan. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-045, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-050 Application for approval of a quality control manual. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-050, filed 10/14/87. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-050, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-055 Changes to an approved design plan or quality control manual. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-055, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-060 Expiration of design plan approval. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-060, filed 10/14/87. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-

13), § 296-150B-060, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-065 Trade secrets. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-065, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-070 Applications for HUD insignia for mobile homes. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-070, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-075 Applications for inspection and insignia for commercial coaches, recreational vehicles, and components. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-075, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-080 Applications for insignia for commercial coaches, recreational vehicles, and components. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-080, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-085 Inspections at a manufacturer's plant by a local enforcement agency, an independent inspection agency, or the manufacturer. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-085, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-090 Other inspections by the department. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-090, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-095 Action after inspection. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-095, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-100 Inspection of commercial coaches after installation at the building site. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-100, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-105 Complaint investigations. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-105, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-110 Fee required if a structure or component is not ready for inspection. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-110, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-115 Alterations. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-115, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-120 Application for alteration insignia and approval of alteration. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-120, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-122 Location of insignia. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-122, filed 10/14/87.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-125 Identification of commercial coaches and recreational vehicles. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-125, filed 10/14/87. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-125, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-130 Lost or damaged insignia. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-130, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-135 Notice of noncompliance. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-135, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-140 Prohibited sale or lease notice. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-140, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-145 Approval of equipment. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-145, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-150 Department approval of listing and testing agencies, licensed professional engineers, and licensed architects. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-150, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-155 Approval of alternates. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-155, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-160 Manufacturing in more than one location. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-160, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-165 Change of name or address. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-165, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-175 Change of ownership. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-175, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-180 Reciprocal agreements. [Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-180, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-185 Reciprocal agreement for recreational vehicles. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-185, filed 10/14/87. Statutory Authority: RCW 43.22.340 and 43.22.400. 83-12-014 (Order 83-13), § 296-150B-185, filed 5/24/83.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340,

[43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-200 General installation requirements for mobile homes. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-200, filed 10/14/87. Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-200, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-200, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-205 Installation permits. [Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-205, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-205, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-210 Inspections. [Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-210, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-210, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-215 Requirements of local jurisdictions. [Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-215, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-220 Inspection by local jurisdictions. [Statutory Authority: RCW 43.22.340 through 43.22.445. 88-19-010 (Order 88-19), § 296-150B-220, filed 9/9/88. Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-220, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-220, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-225 Building site preparation. [Statutory Authority: RCW 43.22.340 through 43.22.445. 88-19-010 (Order 88-19), § 296-150B-225, filed 9/9/88. Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-225, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-225, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-230 Foundation system footings. [Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-230, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-230, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-235 Foundation system piers. [Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-235, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-235, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-240 Foundation system plates and shims. [Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-240, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-245 Foundation facia. [Statutory Authority: RCW 43.22.340 through 43.22.445. 88-19-010 (Order 88-19), § 296-150B-245, filed 9/9/88. Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-245, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-245, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-250 Anchoring systems. [Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-250, filed 12/6/82. Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-250, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-255 Assembly. [Statutory Authority: RCW 43.22.440. 82-09-059 (Order 82-12), § 296-150B-255, filed 4/19/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-300 Construction requirements for mobile homes. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-300, filed 10/22/86. Statutory Authority: RCW 43.22.340. 85-05-028 (Order 85-5), § 296-150B-300, filed 2/15/85; 82-04-060 (Order 82-4), § 296-150B-300, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-305 Standards for recreational vehicles. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-305, filed 10/22/86. Statutory Authority: RCW 43.22.340. 85-05-028 (Order 85-5), § 296-150B-305, filed 2/15/85; 82-04-060 (Order 82-4), § 296-150B-305, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-307 Standards for park trailers. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-307, filed 10/22/86.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-310 Construction requirements for recreational vehicles—Power-supply assembly. [Statutory Authority: RCW 43.22.340. 85-05-028 (Order 85-5), § 296-150B-310, filed 2/15/85; 82-04-060 (Order 82-4), § 296-150B-310, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-315 Construction standards for recreational vehicles—Low voltage circuits. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-315, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-400 Definitions. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-400, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-403 Minimum requirements. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-403, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-407 Structural analysis. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-407, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-410 Standards for equipment and installations. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-410, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-413 Structural design—Requirements. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-413, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority:

RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-417 New materials and methods. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-417, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-420 Design dead loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-420, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-423 Design live loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-423, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-427 Standard wind. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-427, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-430 Roof loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-430, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-433 Snow loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-433, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-437 Posting design loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-437, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-440 Design load deflection. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-440, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-443 Fastening of structural systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-443, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-447 Instructions. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-447, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-450 Walls. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-450, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-453 Drilling or notching of wood wall structural members. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-453, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-457 Firestopping. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-457, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-460 Interior walls and partitions. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-460, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-463 Floors. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-463, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-467 Drilling or notching of wood joist structural members. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-467, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-470 Roof trusses. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-470, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-473 Structural load test. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-473, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-477 Roof coverings. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-477, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-480 Flame-spread limitations and combustibility. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-480, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-483 Kitchen cabinet protection. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-483, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-487 Carpeting. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-487, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-490 Undervehicle closure material. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-490, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-497 Bathroom. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-497, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-500 Glass and glazed openings. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-500, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-503 Fire warning equipment—Automatic smoke detectors. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-503, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-507 Room and hallway sizes. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-507, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-508 Insulation standards. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-508, filed 10/22/86.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory

Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-510 Handicap standards. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-510, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-513 Light and ventilation. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-513, filed 10/14/87. Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-513, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-515 Heating, cooling, and ventilation requirements for portable classrooms. [Statutory Authority: RCW 43.22.340 through 43.22.445. 87-21-040 (Order 87-20), § 296-150B-515, filed 10/14/87.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-517 Exit facilities. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-517, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-520 Weather resistance. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-520, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-523 Windstorm protection. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-523, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-527 Table—Ties required per side of single width commercial coach. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-527, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-530 Table—Accepted engineering practice standards. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-530, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-533 Table—Glazing in hazardous locations. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-533, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-537 Table—Minimum uniformly distributed live loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-537, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-540 Table—Concentrated live loads. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-540, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-543 Interior privacy. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-543, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-547 Interior passage. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-547, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-550 Electrical—General. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-550, filed 10/22/86. Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-550, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-553 Definitions. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-553, filed 10/22/86. Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-553, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-557 Low-voltage systems—Low-voltage circuits. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-557, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-560 Wiring materials—Combination electrical systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-560, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-563 Generator installations—Mounting. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-563, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-567 Branch circuit and feeder calculations. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-567, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-570 Disconnecting means and branch circuit protective equipment—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-570, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-573 Power supply—Feeder assembly equipment. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-573, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-577 Identification of feeder assembly connection. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-577, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-580 Wiring methods—Wiring of expandable or multiple units. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-580, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-583 Under-chassis wiring. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-583, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-587 Rodent resistance. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-587, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-590 Electrical equipment—Lighting fixtures. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-590, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-593 Equipment mounting. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-593, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-597 Outdoor outlets, fixtures, air cooling equipment, etc. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-597, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-600 Grounding—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-600, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-603 Switch and receptacle plates. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-603, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-607 Dielectric strength test. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-607, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-610 Mechanical—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-610, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-613 Mechanical—Definitions. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-613, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-617 LPG equipment and installations—Construction of containers. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-617, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-620 Location of LPG containers and systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-620, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-623 LPG container valves and accessories. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-623, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-627 LPG safety devices. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-627, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-630 LPG system enclosure and mounting. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-630, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-633 LPG system design and service line pressure. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-633, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-637 Electrical equipment. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-637, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-640 Gas piping systems—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-640, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-643 Piping design. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-643, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-647 Materials. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-647, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-650 Expandable or multiple commercial coaches. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-650, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-653 System sizing—Gas pipe sizing. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-653, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-657 Sizing and capacity of gas piping. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-657, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-660 Description of tables. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-660, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-663 Use of capacity tables. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-663, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-667 Table—Iron pipe and tubing sizes. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-667, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-670 Joints and installation—Joints for gas pipe. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-670, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-673 Joints in gas tubing systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-673, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-677 Concealed tubing. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-677, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-680 Pipe-joint compound. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-680, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-683 Concealed joints. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-683, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW

43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-687 Hangers and supports. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-687, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-690 Electrical ground. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-690, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-693 Identification of gas supply connections. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-693, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-697 Gas piping system openings. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-697, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-700 Appliance connections. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-700, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-703 Valves. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-703, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-707 Testing for leakage—Before appliances are connected. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-707, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-710 After appliances are connected. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-710, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-713 Rodent resistance. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-713, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-717 Oil piping systems—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-717, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-720 Oil piping systems—Expandable or multiple commercial coaches. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-720, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-723 Oil piping systems—Materials. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-723, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-727 Oil piping systems—Size of oil piping. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-727, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-730 Oil piping systems—Joints for oil piping. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-730, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-733 Oil piping systems—Tubing joints. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-733, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-737 Oil piping systems—Pipe-joint compound. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-737, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-740 Oil piping systems—Couplings. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-740, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-743 Oil piping systems—Grade of piping. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-743, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-747 Oil piping systems—Strap hangers. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-747, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-750 Oil piping systems—Testing for leakage. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-750, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-753 Appliances—Heat-producing. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-753, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-757 Appliances—Installation. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-757, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-760 Appliances—Venting, ventilation, and combustion air. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-760, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-763 Appliances—Clearance—General. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-763, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-767 Safety devices—Water heater relief valves. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-767, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-770 Air duct material for circulating air supply system. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-770, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-773 Sizing of air ducts. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-773, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-777 Airtightness of air supply duct systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-777, filed 2/2/82.] Repealed by 96-21-146,

filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-780 Air ducts—Expandable or multiple commercial coach connections. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-780, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-783 Air ducts—Return air systems. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-783, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-787 Air ducts—Joints and seams. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-787, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-790 Air ducts—Registers or grills. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-790, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-793 Air ducts—Duct and plenum insulation. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-793, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-797 Plumbing—Definitions. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-797, filed 10/22/86. Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-797, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-800 Plumbing—General. [Statutory Authority: RCW 43.22.340 through 43.22.445. 86-21-136 (Order 86-32), § 296-150B-800, filed 10/22/86. Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-800, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-803 Plumbing—Location of water-supply connections. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-803, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-807 Plumbing—Tub and shower enclosures. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-807, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-810 Drainage—Location of drain outlets. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-810, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-813 Drainage—Cap or plug. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-813, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-817 Drainage—Clearance from drain outlet. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-817, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-820 Drainage—Drainage systems materials. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-820, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-950 Hearing on aggrievances. [Statutory Authority: RCW 43.22.340. 82-04-060 (Order 82-4), § 296-150B-950, filed 2/2/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

296-150B-990 Fees. [Statutory Authority: RCW 43.22.350. 85-05-027 (Order 85-2), § 296-150B-990, filed 2/15/85. Statutory Authority: RCW 43.22.350 and 43.22.440. 83-01-018 (Order 82-37), § 296-150B-990, filed 12/6/82. Statutory Authority: RCW 43.22.440, 43.22.475 and 43.22.480. 82-12-040 (Order 82-20), § 296-150B-990, filed 5/28/82. Statutory Authority: RCW 43.22.340. 82-09-053 (Order 82-13), § 296-150B-990, filed 4/16/82.] Repealed by 96-21-146, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 43.22.340, [43.22.]355, [43.22.]360, [43.22.]432, [43.22.]440 and [43.22.]480.

Chapter 296-200
CONTRACTOR CERTIFICATE OF REGISTRATION RENEWALS—SECURITY—INSURANCE

296-200-005 Purpose of chapter. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-005, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-010 Certificate of registration—Initial application. [Order 74-16, § 296-200-010, filed 5/6/74. Formerly chapter 308-27 WAC.] Repealed by 81-21-001 (Order 81-25), filed 10/8/81. Statutory Authority: RCW 18.27.040.

296-200-015 Definitions. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-015, filed 9/17/86. Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-015, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-020 Reregistration, renewal and reinstatement. [Order 74-16, § 296-200-020, filed 5/6/74. Formerly chapter 308-27 WAC.] Repealed by 81-21-001 (Order 81-25), filed 10/8/81. Statutory Authority: RCW 18.27.040.

296-200-025 Initial application for registration and renewal of registration. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-200-025, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.27.020 and 18.27.070. 83-16-059 (Order 83-21), § 296-200-025, filed 8/2/83. Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-025, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-030 Security and insurance requirements. [Order 74-16, § 296-200-030, filed 5/6/74. Formerly chapter 308-27 WAC.] Repealed by 81-21-001 (Order 81-25), filed 10/8/81. Statutory Authority: RCW 18.27.040.

296-200-035 Length of registration period. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-035, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-040 Suspension of contractor's registration. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-040, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-050 Change in business structure, name, or address. [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-200-050, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.27.020 and 18.27.070. 83-16-059 (Order 83-21), § 296-200-050, filed 8/2/83. Statutory Authority: RCW 18.27.040, 42.17.290 and 42.17.300. 82-18-026 (Order 82-26), § 296-200-050, filed 8/25/82. Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-050, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-060 Cancelling surety bonds and insurance policies. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-060, filed 10/8/81.] Repealed by 97-24-

071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-070 Refund of security deposited with the section. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-070, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-080 Filing suit against a contractor. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-080, filed 9/17/86. Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-080, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-090 Collection of judgments. [Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-090, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-100 Priority for payment of judgments. [Statutory Authority: RCW 18.27.040. 82-24-057 (Order 82-35), § 296-200-100, filed 12/1/82; 81-21-001 (Order 81-25), § 296-200-100, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-110 Verification of registration number by a city, town, or county. [Statutory Authority: RCW 18.27.125. 93-23-043, § 296-200-110, filed 11/12/93, effective 12/13/93.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-111 Verification of nonoriginal registration card by city, town, or county. [Statutory Authority: RCW 18.27.125. 93-23-043, § 296-200-111, filed 11/12/93, effective 12/13/93.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-112 Liability to cities, towns, and counties for failure to verify contractor registration. [Statutory Authority: RCW 18.27.125. 93-23-043, § 296-200-112, filed 11/12/93, effective 12/13/93.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-300 Procedures for issuance of notices of infraction. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-300, filed 9/17/86. Statutory Authority: RCW 18.27.040, 18.27.200 and 18.106.020. 84-12-018 (Order 84-08), § 296-200-300, filed 5/25/84.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-310 Service on employee of a contractor. [Statutory Authority: RCW 18.27.040, 18.27.200 and 18.106.020. 84-12-018 (Order 84-08), § 296-200-310, filed 5/25/84.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-320 Mailing copy of notice of infraction to contractor. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-320, filed 9/17/86. Statutory Authority: RCW 18.27.040, 18.27.200 and 18.106.020. 84-12-018 (Order 84-08), § 296-200-320, filed 5/25/84.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-330 Issuance of notices of infraction under RCW 18.27.100 or 18.27.200. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-330, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-340 Right to contested hearing—Place to file. [Statutory Authority: Chapter 18.27 RCW. 87-07-003 (Order 87-08), § 296-200-340, filed 3/5/87; 86-19-086 (Order 86-31), § 296-200-340, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-350 Administrative law judge shall preside in contested hearings. [Statutory Authority: Chapter 18.27 RCW. 87-07-003 (Order 87-08), § 296-200-350, filed 3/5/87; 86-19-086 (Order 86-31), § 296-200-350, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-360 Representation by counsel. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-360, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-370 Contested cases—Notice—Hearing—Summary orders—Informal disposition—Record—Findings of fact. [Statutory Authority: Chapter 18.27 RCW. 87-07-003 (Order 87-08), § 296-200-370, filed 3/5/87; 86-19-086 (Order 86-31), § 296-200-370, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-380 Contested cases—Evidence. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-380, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-390 Administration of appeals. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-390, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-400 Fines. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-400, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-410 Infraction—Dismissal, when. [Statutory Authority: Chapter 18.27 RCW. 86-19-086 (Order 86-31), § 296-200-410, filed 9/17/86.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

296-200-900 What fees does the department charge contractors for issuance, renewal and reinstatement of certificates of registration? [Statutory Authority: RCW 70.87.030, 18.27.070, [18.27.]075, 43.22.350, [43.22.]355, [43.22.]434 and [43.22.]480(2). 97-11-053, § 296-200-900, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.27.020 and 18.27.070. 83-16-059 (Order 83-21), § 296-200-900, filed 8/2/83. Statutory Authority: RCW 18.27.040, 42.17.290 and 42.17.300. 82-18-026 (Order 82-26), § 296-200-900, filed 8/25/82. Statutory Authority: RCW 18.27.040. 81-21-001 (Order 81-25), § 296-200-900, filed 10/8/81.] Repealed by 97-24-071, filed 12/2/97, effective 1/5/98. Statutory Authority: Chapter 18.27 RCW.

Chapter 296-306
SAFETY STANDARDS FOR AGRICULTURE

296-306-003 Subsections, subdivisions, items, subitems, and segments. [Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-003, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-005 Foreword. [Order 75-2, § 296-306-005, filed 1/24/75.] Repealed by 87-09-079 (Order 86-46), filed 4/22/87. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-306-006 Equipment approval by nonstate agency or organization. [Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-006, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-009 Equipment whether or not owned by, or under control of the employer. [Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-009, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-010 Purpose and scope. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-010, filed 5/1/95, effective 1/16/96; 94-06-068 (Order 93-17), § 296-306-010, filed 3/2/94, effective 3/1/95; 93-07-012 (Order 92-24), § 296-306-010, filed 3/5/93, effective 6/1/93; 89-11-035 (Order 89-03), § 296-306-010, filed 5/15/89, effective 6/30/89; 88-14-108 (Order 88-11), § 296-306-010, filed 7/6/88. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-306-010, filed 7/31/79; Order 75-2, § 296-306-010, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-01001 Cadmium. [Statutory Authority: Chapter 49.17 RCW. 93-07-044 (Order 93-01), § 296-306-01001, filed 3/13/93, effective 4/27/93.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-012 Definitions applicable to all sections of this chapter. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-012, filed 5/1/95, effective 1/16/96; 94-06-068 (Order 93-17), § 296-306-012, filed 3/2/94, effec-

tive 4/15/94; 93-07-012 (Order 92-24), § 296-306-012, filed 3/5/93, effective 6/1/93. Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-012, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-015 Variance procedures. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-015, filed 5/1/95, effective 1/16/96; 94-06-068 (Order 93-17), § 296-306-015, filed 3/2/94, effective 4/15/94; Order 75-2, § 296-306-015, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-020 Serious injury reporting. [Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-306-020, filed 9/30/94, effective 11/20/94; 94-06-068 (Order 93-17), § 296-306-020, filed 3/2/94, effective 4/15/94; Order 75-2, § 296-306-020, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-025 Management's responsibility. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-025, filed 5/1/95, effective 1/16/96; 91-24-017 (Order 91-07), § 296-306-025, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-025, filed 4/22/87. Statutory Authority: RCW 49.17.040, 49.17.150 and 49.17.240. 79-08-115 (Order 79-9), § 296-306-025, filed 7/31/79; Order 77-12, § 296-306-025, filed 7/11/77; Order 75-2, § 296-306-025, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-030 Employee's responsibility. [Order 75-2, § 296-306-030, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-035 Accident prevention program. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-035, filed 5/1/95, effective 1/16/96; 93-07-012 (Order 92-24), § 296-306-035, filed 3/5/93, effective 6/1/93; Order 75-2, § 296-306-035, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-040 Safety bulletin board. [Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-306-040, filed 11/22/91, effective 12/24/91; Order 75-2, § 296-306-040, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-045 First-aid training and certification. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-045, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-045, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-050 First-aid kit. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-050, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-050, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-055 Safe place standards. [Order 75-2, § 296-306-055, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-057 Hand tools. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-057, filed 3/2/94, effective 4/15/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-057, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-060 Personal protective equipment. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-060, filed 3/5/93, effective 6/1/93. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-24-013 (Order 83-34), § 296-306-060, filed 11/30/83; Order 75-2, § 296-306-060, filed 1/24/75.] Repealed by 97-08-051A, filed 3/31/97, effective 5/1/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-061 Machinery and machine guarding. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-061, filed 9/1/94, effective 9/1/94; 93-07-012 (Order 92-24), § 296-306-061, filed 3/5/93, effective 6/1/93.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-06101 Powered saws, general requirements. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-06101, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-06103 Band saws. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-06103, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-06105 Radial armsaws. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-06105, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-06107 Table saws. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-06107, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-06109 Circular fuel wood saws. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-06109, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-065 Materials handling and storage—General requirements. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-065, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-065, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-070 Reserved. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-070, filed 3/5/93, effective 6/1/93; Order 75-2, § 296-306-070, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-075 Bench grinders. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-075, filed 9/1/94, effective 9/1/94; Order 75-2, § 296-306-075, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-07501 Definitions. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-07501, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-07503 Use, mounting, and guarding. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-07503, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-080 Guarding of hand-held portable power tools. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-080, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-080, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-084 Portable abrasive wheels. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-084, filed 3/5/93, effective 6/1/93.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-085 Fire protection and ignition sources. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-085, filed 5/1/95, effective 1/16/96; 88-14-108 (Order 88-11), § 296-306-085, filed 7/6/88; Order 75-2, § 296-306-085, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-08501 Scope and application. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-08501, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-08503 General requirements. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-08503, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed

10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-08505 Selection and distribution. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-08505, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-08507 Inspection, maintenance and testing. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-08507, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-08509 Employee emergency and fire prevention plans. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-08509, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-090 Storage and handling of anhydrous ammonia. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-090, filed 5/1/95, effective 1/16/96; 88-14-108 (Order 88-11), § 296-306-090, filed 7/6/88; Order 75-2, § 296-306-090, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-09001 Storage and handling of liquefied petroleum gases. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-09001, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-09003 Hazardous materials, flammable and combustible liquids, spray finishing, dip tanks. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-09003, filed 5/1/95, effective 1/16/96.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-095 Walking working surfaces, elevated walkways and platforms. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-095, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-095, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-100 Handrails. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-100, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-100, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-105 Ladders. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-105, filed 5/1/95, effective 1/16/96; 93-07-012 (Order 92-24), § 296-306-105, filed 3/5/93, effective 6/1/93; Order 75-2, § 296-306-105, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-110 Job-made ladders. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-110, filed 3/2/94, effective 4/15/94; Order 75-2, § 296-306-110, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-115 Bins, bunkers, hoppers, tanks, pits and trenches. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-115, filed 3/2/94, effective 4/15/94; 93-07-012 (Order 92-24), § 296-306-115, filed 3/5/93, effective 6/1/93; Order 75-2, § 296-306-115, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-120 Aerial manlift equipment. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-120, filed 5/1/95, effective 1/16/96; 94-06-068 (Order 93-17), § 296-306-120, filed 3/2/94, effective 4/15/94; Order 75-2, § 296-306-120, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-125 Gas welding and cutting. [Order 75-2, § 296-306-125, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-130 Welding. [Order 75-2, § 296-306-130, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-135 Arc welding and cutting. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-135, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-135, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-140 Welding areas protected. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-140, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-140, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-145 Electrical. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-145, filed 9/1/94, effective 9/1/94; 93-07-012 (Order 92-24), § 296-306-145, filed 3/5/93, effective 6/1/93; Order 76-28, § 296-306-145, filed 9/28/76; Order 75-2, § 296-306-145, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14501 Purpose, scope and application. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14501, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14503 Definitions. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14503, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14505 Temporary lighting and wiring. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14505, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14507 Guarding of live parts. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14507, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14509 Equipment installation and maintenance. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14509, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14511 Proximity to overhead lines. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14511, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14513 Safeguards for personal protection. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14513, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-14515 Selection and use of work practices. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-14515, filed 9/1/94, effective 9/1/94.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-150 Slow-moving vehicles. [Order 75-2, § 296-306-150, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-155 General requirements for maintenance of farm motor vehicles and equipment. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-155, filed 5/1/95, effective 1/16/96; Order 75-2, § 296-306-155, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-160 Vehicles. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-160, filed 3/2/94, effective 4/15/94; Order 75-2, § 296-306-160, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-165 General requirements for all agricultural equipment. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-165, filed 5/1/95, effective 1/16/96; 93-07-012 (Order 92-24), § 296-306-165, filed 3/5/93, effec-

tive 6/1/93; 91-24-017 (Order 91-07), § 296-306-165, filed 11/22/91, effective 12/24/91; 89-11-035 (Order 89-03), § 296-306-165, filed 5/15/89, effective 6/30/89; Order 76-28, § 296-306-165, filed 9/28/76; Order 75-2, § 296-306-165, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-170 Auger conveying equipment. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-170, filed 5/1/95, effective 1/16/96; Order 76-28, § 296-306-170, filed 9/28/76; Order 75-2, § 296-306-170, filed 1/24/75.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-175 Farm field equipment guarding. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-175, filed 9/1/94, effective 9/1/94; Order 76-28, § 296-306-175, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-180 Farmstead equipment. [Statutory Authority: Chapter 49.17 RCW. 94-18-067, § 296-306-180, filed 9/1/94, effective 9/1/94; Order 76-28, § 296-306-180, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-200 Rollover protective structures (ROPS) for tractors used in agricultural operations. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-200, filed 3/2/94, effective 3/1/95; 93-07-012 (Order 92-24), § 296-306-200, filed 3/5/93, effective 6/1/93; 89-11-035 (Order 89-03), § 296-306-200, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-306-200, filed 7/13/83, effective 9/12/83; 82-08-026 (Order 82-10), § 296-306-200, filed 3/30/82; Order 76-28, § 296-306-200, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-250 Protective frames for wheel-type agricultural tractors—Test procedures and performance requirements—Purpose. [Order 76-28, § 296-306-250, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25003 Types of tests. [Order 76-28, § 296-306-25003, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25005 Description. [Order 76-28, § 296-306-25005, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25007 Test procedures. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-25007, filed 3/2/94, effective 4/15/94; Order 76-28, § 296-306-25007, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25009 Performance requirements. [Order 76-28, § 296-306-25009, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25013 Protective enclosures for wheel-type agricultural tractors—Test procedures and performance requirements—Purpose. [Order 76-28, § 296-306-25013, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25017 Types of tests. [Order 76-28, § 296-306-25017, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25019 Description. [Order 76-28, § 296-306-25019, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25021 Test procedures. [Order 76-28, § 296-306-25021, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25023 Performance requirements. [Order 76-28, § 296-306-25023, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-25095 Exhibit B—Figures C-1 thru C-16. [Order 76-28, Exhibit B (codified as WAC 296-306-25095), filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-260 Rollover protective structures (ROPS) for material handling equipment. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-260, filed 3/2/94, effective 4/15/94; 91-11-070 (Order 91-01), § 296-306-260, filed 5/20/91, effective 6/20/91; Order 76-28, § 296-306-260, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-26001 Minimum performance criteria for rollover protective structures for designated scrapers, loaders, dozers, graders, and crawler tractors. [Statutory Authority: Chapter 49.17 RCW. 95-10-045, § 296-306-26001, filed 5/1/95, effective 1/16/96; 93-07-012 (Order 92-24), § 296-306-26001, filed 3/5/93, effective 6/1/93; Order 76-28, § 296-306-26001, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-265 Protective frame (ROPS) test procedures and performance requirements for wheel-type agricultural and industrial tractors used in agriculture. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-265, filed 3/2/94, effective 4/15/94; 93-07-012 (Order 92-24), § 296-306-265, filed 3/5/93, effective 6/1/93; 91-11-070 (Order 91-01), § 296-306-265, filed 5/20/91, effective 6/20/91; Order 76-28, § 296-306-265, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-270 Overhead protection for operators of agricultural and industrial tractors. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-270, filed 3/5/93, effective 6/1/93; Order 76-28, § 296-306-270, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-27095 Exhibit B—Figures C-17 through C-34. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-27095, filed 3/5/93, effective 6/1/93; 91-11-070 (Order 91-01), § 296-306-27095, filed 5/20/91, effective 6/20/91; 87-24-051 (Order 87-24), § 296-306-27095, filed 11/30/87; Order 76-28, Exhibit B (codified as WAC 296-306-27095), filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-275 Seatbelts. [Order 76-28, § 296-306-275, filed 9/28/76.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-300 Field sanitation—Scope. [Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-300, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-310 Field sanitation—Definitions. [Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-306-310, filed 5/20/91, effective 6/20/91; 89-11-035 (Order 89-03), § 296-306-310, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-310, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-320 Field sanitation—Requirements. [Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-306-320, filed 5/20/91, effective 6/20/91; 89-11-035 (Order 89-03), § 296-306-320, filed 5/15/89, effective 6/30/89; 88-23-054 (Order 88-25), § 296-306-320, filed 11/14/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 87-09-079 (Order 86-46), § 296-306-320, filed 4/22/87.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-330 Decontamination. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-330, filed 3/5/93, effective 6/1/93.] Repealed by 97-08-051A,

filed 3/31/97, effective 5/1/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-400 Posting requirements. [Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-306-400, filed 3/2/94, effective 4/15/94; 93-07-012 (Order 92-24), § 296-306-400, filed 3/5/93, effective 6/1/93; 91-24-017 (Order 91-07), § 296-306-400, filed 11/22/91, effective 12/24/91. Statutory Authority: Chapters 49.17 and 49.70 RCW. 90-11-023 (Order 89-19), § 296-306-400, filed 5/9/90, effective 7/1/90.] Repealed by 97-08-051A, filed 3/31/97, effective 5/1/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-40003 General requirements. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-40003, filed 3/5/93, effective 6/1/93. Statutory Authority: Chapters 49.17 and 49.70 RCW. 90-11-023 (Order 89-19), § 296-306-40003, filed 5/9/90, effective 7/1/90.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-40005 Pesticides record form. [Statutory Authority: Chapters 49.17 and 49.70 RCW. 90-11-023 (Order 89-19), § 296-306-40005, filed 5/9/90, effective 7/1/90.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-40007 Emergency medical care information. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-40007, filed 3/5/93, effective 6/1/93.] Repealed by 97-08-051A, filed 3/31/97, effective 5/1/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-40009 Emergency assistance. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-40009, filed 3/5/93, effective 6/1/93.] Repealed by 97-08-051A, filed 3/31/97, effective 5/1/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

296-306-40011 Cholinesterase monitoring for employees mixing, loading, or applying organophosphate pesticides, and/or early reentering of treated areas. Nonmandatory. [Statutory Authority: Chapter 49.17 RCW. 93-07-012 (Order 92-24), § 296-306-40011, filed 3/5/93, effective 6/1/93.] Repealed by 96-22-048, filed 10/31/96, effective 12/1/96. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060.

Chapter 296-306A
SAFETY STANDARDS FOR AGRICULTURE

296-306A-003 How is this chapter divided? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-006 What does this chapter cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-009 What definitions apply to this chapter? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-012 What does it mean when equipment is approved by a nonstate organization? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-015 What must an employer do if a serious injury occurs? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-018 What are the employer's responsibilities? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-021 What are the employee's responsibilities? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-024 How does an employer apply for a variance? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-024, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-030 What are the required elements of an accident prevention program? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-030, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-033 How often must safety meetings be held? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-036 What items go on the safety bulletin board? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-036, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-039 How many people at the worksite must be first-aid trained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-042 Must an employer provide first-aid kits? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-042, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-045 What are the requirements of the safe place standard? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-045, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-050 What requirements apply to hand tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-050, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-055 Ladders. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-055, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-05501 How must ladders be cared for and maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-05501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-05503 How must an employer instruct employees to use ladders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-05503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-05505 How must orchard ladders be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-05505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-05507 What other requirements apply to ladders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-05507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-060 What requirements apply to job-made ladders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-060, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-061 What requirements apply to working around bins, bunkers, hoppers, tanks, pits, and trenches? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-061, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-065 How must slow-moving vehicles be marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-065, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-070 Motor vehicles. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-070, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07001 How must motor vehicles be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07003 How must motor vehicles be operated? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07005 Who may operate motor vehicles? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07007 What requirements apply to motor vehicle brakes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07009 How must motor vehicles be loaded and unloaded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07011 What safety equipment must motor vehicles have? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-07013 What rules apply to vehicles used to transport employees? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-07013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-073 What requirements apply to changing and charging storage batteries? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-073, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-076 How must farm field equipment be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-076, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-080 Rollover protective structures (ROPS) for tractors. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-080, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08003 Which agricultural tractors are covered by this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08006 What definitions apply to rollover protective structures (ROPS) for agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08009 What requirements apply to the testing and performance of ROPS used on agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08012 What requirements apply to seatbelts used with ROPS on agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08015 When are ROPS not required on agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08018 What employee training requirements apply to ROPS used on agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-08021 What other requirements apply to ROPS used on agricultural tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-08021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-085 When must ROPS be provided for material handling equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-085, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-090 What requirements apply to overhead protection for operators of agricultural and industrial tractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-090, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-095 Field sanitation. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-095, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09503 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09506 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09506, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09509 What orientation must employers provide for field sanitation? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09512 What potable water sources must an employer provide? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09512, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09515 What handwashing facilities must an employer provide? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-09518 What toilet facilities must an employer provide? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-09518, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-100 Personal protective equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-100, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-10005 Who must provide personal protective equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-10005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-10010 What requirements apply to eye protection? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-10010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-10015 How must personal protective equipment be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-10015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-10020 What must an employer do to prevent heat-related illness? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-10020, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-10025 What instruction on personal protective equipment must an employer give to employees? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-10025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-107 Federal worker protection standards—Washington state department of agriculture. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, §

296-306A-107, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-110 Scope and purpose—Worker protection standards—40 CFR, § 170.1. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-110, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-11005 Definitions—Worker protection standards—40 CFR, § 170.3. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-11005, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-11010 General duties and prohibited actions—Worker protection standards—40 CFR, § 170.7. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-11010, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-11015 Violations of this part—Worker protection standards—40 CFR, § 170.9. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-11015, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-120 Applicability of this section—Standards for workers—40 CFR, § 170.102. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-120, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12005 Exceptions—Standards for workers—40 CFR, § 170.103. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12005, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12010 Exemptions—Standards for workers—40 CFR, § 170.104. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12010, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12015 Restrictions associated with pesticide applications—Standards for workers—40 CFR, § 170.110. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12015, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12020 Entry restrictions—Standards for workers—40 CFR, § 170.112. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12020, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12025 Notice of applications—Standards for workers—40 CFR, § 170.120. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12025, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12030 Providing specific information about applications—Standards for workers—40 CFR, § 170.122. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12030, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12035 Notice of applications to handler employers—Standards for workers—40 CFR, § 170.124. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-08, § 296-306A-12035, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12040 Pesticide safety training—Standards for workers—40 CFR, § 170.130. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12040, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12045 Posted pesticide safety information—Standards for workers—40 CFR, § 170.135. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12045, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12050 Decontamination—Standards for workers—40 CFR, § 170.150. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12050, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-12055 Emergency assistance—Standards for workers—40 CFR, § 170.160. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-12055, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-130 Applicability of this section—Standards for pesticide handlers—40 CFR, § 170.202. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-130, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13005 Exemptions—Standards for handlers—40 CFR, § 170.204. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13005, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13010 Restrictions during applications—Standards for pesticide handlers—40 CFR, § 170.210. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13010, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13015 Providing specific information about applications—Standards for pesticide handlers—40 CFR, § 170.222. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13015, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13020 Notice of applications to agricultural employers—Standards for pesticide handlers—40 CFR, § 170.224. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13020, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13025 Pesticide safety training—Standards for pesticide handlers—40 CFR, § 170.230. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13025, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13030 Knowledge of labeling and site-specific information—Standards for pesticide handlers—40 CFR, § 170.232. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13030, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13035 Safe operation of equipment—Standards for pesticide handlers—40 CFR, § 170.234. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13035, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13040 Posted pesticide safety information—Standards for pesticide handlers—40 CFR, § 170.235. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13040, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13045 Personal protective equipment—Standards for pesticide handlers—40 CFR, § 170.240. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13045, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13050 Decontamination—Standards for pesticide handlers—40 CFR, § 170.250. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13050, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-13055 Emergency assistance—Standards for pesticide handlers—40 CFR, § 170.260. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-20-082, § 296-306A-13055, filed 9/30/96, effective 11/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-145 Pesticides recordkeeping. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-145, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-14505 What records must an employer keep for pesticide applications? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-14505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-14510 What do the pesticides forms look like? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-14510, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-14520 What are the departments recommendations for cholinesterase monitoring? (Nonmandatory) [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-14520, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-150 Employees working near overhead lines. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-150, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-15003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-15003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-15006 What clearance and safeguards are required to protect employees working near overhead lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-15006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-15009 What signs must an employer post to warn employees working near overhead lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-15009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-15012 When must an employer notify the utility of employees working near overhead lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-15012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-160 Temporary labor camps. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-160, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16001 What requirements apply to camp sites? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16003 How must camp shelters be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16005 What requirements apply to the water supply? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16007 Must an employer provide toilet facilities for the camp? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16009 Must sewer lines connect to public sewers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16011 What facilities must an employer provide for laundry, handwashing, and bathing? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16013 What lighting must an employer provide in camp buildings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16015 What requirements apply to refuse disposal? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16017 How must kitchens, dining halls, and feeding facilities be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16019 Must an employer provide insect and rodent control? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16021 What first-aid facilities must be available in the camp? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-16023 When must an employer report communicable diseases in a camp? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-16023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-185 Guarding powered saws. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-185, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-18503 What general requirements apply to powered saws? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-18503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-18506 How must band saws be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-18506, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-18509 How must radial arm saws be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-18509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-18512 How must table saws be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-18512, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-18515 How must circular fuel-wood saws be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-18515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-190 Guarding bench grinders and abrasive wheels. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-190, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19003 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19006 What rules apply to guarding abrasive wheels? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19009 What are the use, mounting, and guarding rules for abrasive wheels? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19012 What requirements apply to flanges? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19015 How must vertical portable grinders be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-19018 How must other portable grinders be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-19018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-195 What rules apply to grounding and "dead man" controls for hand-held portable power tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-195, filed 10/31/96, effective

12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-200 Compressed air. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-200, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-20005 May compressed air be used for cleaning? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-20005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-20010 What requirements apply to compressed air tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-20010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-205 Guarding portable powered tools. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-205, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-20505 What requirements apply to guarding portable powered tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-20505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-20510 What requirements apply to switches and controls on portable powered tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-20510, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-20515 What requirements apply to pneumatic powered tools and hose? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-20515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-220 Power lawnmowers. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-220, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22003 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22006 What are the general guarding requirements for power lawnmowers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22009 What rules apply to walk-behind and riding rotary mowers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22012 What rules apply to walk-behind rotary mowers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22015 What rules apply to riding rotary mowers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-225 Jacks. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-225, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22503 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22506 How shall the rated load be marked on a jack? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22506, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-22509 What rules apply to the operation and maintenance of jacks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-22509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-230 What are the general requirements for materials handling and storage? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-230, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-232 What requirements apply to conveyors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-232, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-240 Sanitation for fixed, indoor workplaces. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-240, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24001 Must an employer comply with state health regulations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24006 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24009 What housekeeping requirements apply to fixed, indoor workplaces? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24012 How must the potable water supply be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24015 How must the nonpotable water supply be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24018 What toilet facilities must an employer provide? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24021 What washing facilities must an employer provide? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24024 What requirements apply to lavatories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24024, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24027 When must an employer provide change rooms? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24030 What requirements apply to consumption of food and beverages in the workplace? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24030, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24033 How must waste be stored and removed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-24036 When must an employer have a vermin control program? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-24036, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-250 Walking working surfaces, elevated walkways, and platforms. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-

250, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25003 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25006 When may railings be omitted? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25009 What protection must an employer provide for floor openings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25012 What protection must an employer provide for wall openings and holes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25015 What protection must an employer provide for open-sided floors, platforms, and runways? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25018 What requirements apply to stairway railings and guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25021 How must a standard railing be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25024 How must a stair railing be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25024, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25027 What are the requirements for railing dimensions? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25030 What requirements apply to toeboards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25030, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25033 How must handrails and railings be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25036 What materials may be used for floor opening covers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25036, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25039 How must skylight screens be constructed and mounted? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-25042 What protection must an employer provide for wall openings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-25042, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-260 Fixed industrial stairs. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-260, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26006 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26009 Where are fixed stairs required? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26012 Where are spiral stairs prohibited? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26015 How strong must fixed stairs be? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26018 How wide must fixed stairs be? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26021 What angles may stairways be installed at? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26024 What requirements apply to stair treads? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26024, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26027 What requirements apply to the length of stairways? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26030 What requirements apply to railings and handrails on fixed stairs? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26030, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26033 What requirements apply to alternating tread-type stairs? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-26036 What other requirements apply to fixed stairs? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-26036, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-270 Aerial manlift equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-270, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-27005 What requirements apply to aerial manlift equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-27005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-27010 What requirements apply to using aerial manlift equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-27010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-280 Guarding power transmission machinery. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-280, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28002 What power transmission belts are covered by this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28002, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28004 What does "guarded by location" mean? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28004, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28006 What general requirements apply to machine guarding? [Statutory Authority: RCW 49.17.040, [49.17.]050 and

[49.17.]060. 96-22-048, § 296-306A-28006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28008 What training must an employer provide for employees who use agricultural equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28008, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28010 What requirements apply to machine controls? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28012 What requirements apply to guarding steam pipes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28014 What requirements apply to prime-mover guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28014, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28016 What requirements apply to guarding shafting? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28016, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28018 What requirements apply to guarding pulleys? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28020 What requirements apply to guarding horizontal belt, rope, and chain drives? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28020, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28022 What requirements apply to guarding overhead horizontal belt, rope, and chain drives? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28022, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28024 What requirements apply to guarding vertical and inclined belts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28024, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28026 What requirements apply to guarding cone-pulley belts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28026, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28028 What requirements apply to guarding belt tighteners? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28028, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28030 What requirements apply to guarding gears, sprockets, and chains? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28030, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28032 What requirements apply to guarding friction drives? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28032, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28034 What requirements apply to guarding keys, set screws, and other projections? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28034, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28036 What requirements apply to guarding collars and couplings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28036, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28038 Must self-lubricating bearings be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28038, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28040 What requirements apply to guarding clutches, cutoff couplings, and clutch pulleys? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28040, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28042 What requirements apply to guarding belt shifters, clutches, shippers, poles, perches, and fasteners? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28042, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28044 What materials must be used for standard guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28044, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28046 How must standard guards be manufactured? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28046, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28048 What requirements apply to disk, shield, and U-guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28048, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28050 What materials must be used for guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28050, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28052 When may wood guards be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28052, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28054 What materials may be used for guarding horizontal overhead belts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28054, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28056 What clearance must be maintained between guards and power transmission machinery? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28056, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28058 How must overhead rope and chain-dive guards be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28058, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28060 What materials must be used for guardrails and toeboards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28060, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28062 How must shafting be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28062, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28064 How must pulleys be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28064, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28066 How must belts be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28066, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-28068 How must other equipment be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-28068, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-290 Auger conveying equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-290, filed 10/31/96, effective

12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-29005 What requirements apply to auger conveying equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-29005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-29010 What other requirements apply to auger conveying equipment manufactured after October 25, 1976? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-29010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-300 Guarding farmstead equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-300, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30006 How must power takeoff shafts of farmstead equipment be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30009 How must other power transmission components of farmstead equipment be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30012 How must functional components of farmstead equipment be guarded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30015 When may guards be removed on farmstead equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30018 What requirements apply to electrical control for maintaining and servicing farmstead equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-30021 What additional guarding requirements apply to farmstead equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-30021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-320 Control of hazardous energy (lockout-tagout). [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-320, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32003 When does this section not apply? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32005 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32007 What are the required elements of an energy control program? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32009 How does an employer determine when to use lockout vs. tagout? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32011 What requirements must be met to substitute tagout for lockout? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32013 What are the required elements of energy control procedures? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32015 What requirements apply to lockout and tagout devices and materials? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32017 How often must the energy control procedure be inspected? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32019 What general requirements apply to energy control program training and communication? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32021 What additional requirements apply to tagout training and communication? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32023 What requirements apply to employee retraining? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32025 What training records must an employer keep? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32027 Who may perform lockout or tagout? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32029 Who must be notified of lockout and tagout? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32031 What order of events must lockout or tagout procedures follow? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32031, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32033 What order of events must be followed to remove lockout or tagout devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32035 What requirements apply to testing and positioning machines and equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32035, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32037 What requirements apply to outside servicing contractors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32037, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32039 What requirements apply to group lockout or tagout? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-32041 What requirements apply to lockout/tagout during shift changes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-32041, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-330 Safety color coding; accident prevention signs and tags. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-330, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33001 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33003 What does red identify in safety color coding? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33005 What does yellow identify in safety color coding? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33007 When should signs and tags use "danger" versus "caution"? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33009 What are the design and color specifications for accident prevention signs? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-33011 What are the proper uses of accident prevention tags? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-33011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-340 Portable fire extinguishers. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-340, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34006 Who is exempt from the requirements of this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34009 What general requirements apply to portable fire extinguishers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34012 How should portable fire extinguishers be selected and distributed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34015 What are the requirements for inspection, maintenance and testing of portable fire extinguishers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34018 What requirements apply to hydrostatic testing? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34021 What are the training requirements for portable fire extinguishers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-345 Employee alarm systems. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-345, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34503 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34506 What general requirements apply to employee alarm systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34506, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34509 What are the installation and restoration requirements for employee alarm systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34512 How must employee alarm systems be maintained and tested? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34512, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-34515 Where must manually operated devices be located? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-34515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-350 Exit routes. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-350, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35003 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35006 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35009 What are the design requirements for exit routes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35012 What are the operation and maintenance requirements for exit routes? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35015 What are the requirements for an emergency action plan? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-35018 What are the requirements for a fire prevention plan? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-35018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-360 Electrical. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-360, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36005 What does this part cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36010 What definitions apply to this part? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36010, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-362 General electrical requirements. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-362, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36203 What electrical equipment must be approved? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36203, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36206 How must electrical equipment safety be determined? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36206, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36209 What requirements apply to guarding live parts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36209, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36212 What workspace must be provided? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36212, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36215 What general requirements apply to splices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36215, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36218 What protection must be provided against combustible materials? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36218, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36221 How must electrical equipment be marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36221, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36224 How must disconnecting means be marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36224, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36227 What access and working space must be provided for electrical equipment of 600 volts, nominal, or less? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36227, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36230 What access and working space must be provided for electrical equipment over 600 volts, nominal? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36230, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-364 Electrical installation and maintenance. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-364, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36403 How must flexible cords and cables be installed and maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36403, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36406 How must attachment plugs and receptacles be installed and maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36406, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36409 What must employees do when equipment causes electrical shock? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36409, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36412 What grounding and bonding requirements apply to equipment installation and maintenance? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36412, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36415 What requirements apply to disconnecting means? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36415, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36418 What requirements apply to identification and load rating of electrical equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36418, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36421 How must equipment be installed in wet locations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36421, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-366 Wiring design and protection. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-366, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36603 How must grounded and grounding conductors be used and identified? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36603, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36606 What ampere rating must outlet devices have? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36606, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36609 What requirements apply to conductors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36609, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36612 What design and protection requirements apply to service-entrances? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36612, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36615 What overcurrent protection must be provided? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36615, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36618 What premises wiring systems must be grounded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36618, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36621 Must the conductor be grounded for AC premises wiring? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36621, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36624 What general requirements apply to grounding conductors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36624, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36627 Must the path to ground be continuous? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36627, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36630 What supports, enclosures, and equipment must be grounded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36630, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36633 How must fixed equipment be grounded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36633, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36636 How must high voltage systems be grounded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36636, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-368 Wiring methods, components, and equipment for general use. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-368, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36803 Does this section apply to factory-assembled equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36803, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36806 What wiring methods must be used for temporary wiring? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36806, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-36809 When may cable trays be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36809, filed 10/31/96, effective

12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36812 What requirements apply to open wiring on insulators? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36812, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36815 What wiring requirements apply to cabinets, boxes, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36815, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36818 What requirements apply to switches? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36818, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36821 Where must switchboards and panelboards be located? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36821, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36824 When must conductors be insulated? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36824, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36827 When may flexible cords and cables be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36827, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36830 How must flexible cords and cables be identified, spliced, and terminated? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36830, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36833 What requirements apply to multiconductor portable cable? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36833, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36836 When may fixture wires be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36836, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36839 What requirements apply to wiring for lighting fixtures, lampholders, lamps, and receptacles? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36839, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36842 What requirements apply to wiring for receptacles, cord connectors, and attachment plugs (caps)? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36842, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36845 What requirements apply to wiring for appliances? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36845, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36848 What requirements apply to wiring for motors, motor circuits, and controllers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36848, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36851 What requirements apply to wiring for transformers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36851, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36854 What requirements apply to wiring for capacitors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36854, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36857 How must storage batteries be ventilated? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36857, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-36860 What other miscellaneous requirements apply to wiring methods? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-36860, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-370 Special purpose equipment and installations. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-370, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37003 What requirements apply to cranes, hoists, and runways? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37006 What requirements apply to elevators, dumbwaiters, escalators, and moving walks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37009 What requirements apply to the disconnecting means for electric welders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37012 What requirements apply to electrically driven or controlled irrigation machines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-372 Hazardous (classified) locations. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-372, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37203 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37203, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37206 What classifications apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37206, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37209 What equipment, wiring methods, and installations may be used in hazardous locations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37209, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37212 How must conduit be installed in hazardous locations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37212, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37215 Which equipment may be used in Division 1 and 2 locations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37215, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37218 What requirements apply to motors and generators used in hazardous locations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37218, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-374 Special systems. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-374, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37403 What requirements apply to systems over 600 volts, nominal? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37403, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37406 What requirements apply to emergency power systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37406, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.
296-306A-37409 How are Class 1, Class 2, and Class 3 remote control, signaling, and power-limited circuits classified? [Statutory Authority: RCW 49.17.040, [49.17.]050 and

[49.17.]060. 96-22-048, § 296-306A-37409, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37412 What requirements apply to fire protective signaling systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37412, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-376 Working on or near exposed energized parts. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-376, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37603 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37603, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37606 Who may work on energized parts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37606, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37609 What requirements apply to working near low voltage lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37609, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37612 What requirements apply to qualified persons working near overhead lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37612, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37615 What requirements apply to vehicles and mechanical equipment near overhead lines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37615, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37618 What lighting must be provided for employees working near exposed energized parts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37618, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37621 What requirements apply to working near exposed energized parts in confined spaces? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37621, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37624 What housekeeping requirements apply to working near exposed energized parts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37624, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37627 Who may defeat an electrical safety interlock? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37627, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-378 Safety-related work practices. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-378, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37801 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37801, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37803 How must employees be trained on safety practices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37803, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37805 How must safety-related work practices be chosen and used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37805, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37807 What work practices must be followed for work on exposed deenergized parts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37807, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37809 Must an employer have a written copy of lockout-tagout procedures? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37809, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37811 What work practices must be followed for deenergizing equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37811, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37813 How must locks and tags be applied? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37813, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37815 What work practices must be followed to verify deenergization? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37815, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37817 What work practices must be followed when reenergizing equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37817, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37819 What safety-related work practices relate to portable electric equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37819, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37821 What safety-related work practices relate to electric power and lighting circuits? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37821, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37823 What safety-related work practices relate to test instruments and equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37823, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-37825 What safety-related work practices relate to flammable materials? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-37825, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-380 Electrical protective equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-380, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38003 How must protective equipment be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38006 What requirements apply to general protective equipment and tools? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38006, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38009 What manufacturing and marking requirements apply to electrical protective devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38012 What electrical requirements apply to electrical protective devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38012, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38015 What workmanship and finish requirements apply to electrical protective devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-38018 How must electrical protective devices be maintained and used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-38018, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-400 Anhydrous ammonia. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-400, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40003 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40005 What general requirements apply to the storage and handling of anhydrous ammonia? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40007 What requirements apply to systems mounted on farm wagons (implements of husbandry) for the transportation of ammonia? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40009 What requirements apply to systems mounted on farm wagons (implements of husbandry) for the application of ammonia? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40011 What requirements must approved anhydrous ammonia equipment meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40013 What requirements apply to the construction, original test, and requalification of nonrefrigerated containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40015 How must nonrefrigerated containers and systems (other than DOT containers) be marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40017 Where may anhydrous ammonia containers be located? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40019 What requirements apply to container accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40021 What requirements apply to piping, tubing, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40023 What specifications must hoses meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40025 What requirements apply to safety-relief devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40027 What emergency precautions are required when handling anhydrous ammonia? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40029 What requirements apply to filling densities? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40031 What requirements apply to the transfer of liquids? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40031, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40033 What requirements apply to tank car unloading points and operations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40035 What requirements apply to the liquid-level gauging device? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40035, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40037 How should aboveground uninsulated containers be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40037, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-40039 What requirements apply to electrical equipment and wiring? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-40039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-410 Storage and handling of liquefied petroleum gases. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-410, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41001 What does this part cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41003 Which LP-gas installations are not covered by this part? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41005 What definitions apply to this part? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41007 When must LP-gas be odorized? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41009 Must LP-gas containers and equipment be approved? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41011 What construction and test requirements must containers meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41013 How must containers be welded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41015 How must containers be marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41017 Where must containers be located? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41019 What requirements apply to valves and accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41021 What requirements apply to piping, tubing, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41023 What specifications must hoses meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41025 What requirements apply to safety devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41027 How must indirect fired vaporizers be constructed and installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41029 How must atmospheric vaporizers be constructed and installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41031 How must direct gas-fired vaporizers be constructed and installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41031, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41033 How must direct gas-fired tank heaters be constructed and installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41035 How must dehydrators be constructed and installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41035, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41037 What are the maximum filling densities? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41037, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41039 What requirements apply to LP-gas in buildings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41041 What requirements apply to transfer of liquids? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41041, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41043 Must workers be trained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41043, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41045 What fire protection must be provided for LP-gas installations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41045, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41047 What electrical requirements apply to LP-gas installations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41047, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41049 What requirements apply to liquid-level gauging devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41049, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41051 What requirements apply to appliances? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41051, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-415 Cylinder systems. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-415, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41501 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41503 What is a "cylinder system?" [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41505 How must containers be marked for cylinder systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41507 What additional requirements apply to cylinder systems installed outdoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41509 What additional requirements apply to cylinder system installed indoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41511 What requirements apply to valves and accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41511, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41513 What requirements apply to safety devices for cylinder systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41513, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-41515 What other requirements apply to cylinder systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-41515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-420 Systems using non-DOT containers. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-420, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42003 How must non-DOT containers be designed and classified? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42005 What requirements apply to valves and accessories, filler pipes, and discharge pipes for non-DOT containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42007 What additional requirements apply to safety devices for non-DOT containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42009 When may non-DOT containers be reinstalled? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42011 What is the maximum capacity allowed for non-DOT containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42013 How must non-DOT containers be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42015 How must non-DOT containers be protected? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42017 What requirements apply to non-DOT containers in industrial plants? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, §

296-306A-42017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42019 What requirements apply to container-charging plants? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42021 What fire protection must be provided for non-DOT containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42023 What other requirements apply to non-DOT containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-425 LP-gas as a motor fuel. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-425, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42501 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42503 What general requirements apply to LP-gas used as a motor fuel? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42505 How must fuel containers be designed and classified? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42507 How must fuel containers be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42509 What requirements apply to valves and accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42511 What requirements apply to piping, tubing, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42511, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42513 What requirements apply to safety devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42513, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42515 What requirements apply to vaporizers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42517 What requirements apply to gas regulating and mixing equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42517, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42519 What is the maximum container capacity allowed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42519, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42521 What requirements apply to stationary engines used indoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42521, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42523 What requirements apply to portable engines used indoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42523, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42525 What requirements apply to industrial trucks used indoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42525, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-42527 How must LP-gas-fueled vehicles be garaged? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-42527, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-430 Storage of containers awaiting use or resale. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-430, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43003 What general requirements apply to storage of containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43005 How must containers be stored within buildings frequented by the public? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43007 How must containers be stored in buildings not frequented by the public? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43009 How must containers be stored within special buildings or rooms? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43011 How must containers be stored outdoors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43013 What fire protection must be provided for stored containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-435 LP-gas system installations on commercial vehicles. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-435, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43501 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43503 How must containers be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43505 What is the maximum capacity allowed for LP-gas installations on commercial vehicles? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43507 Where must systems be located? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43509 What requirements apply to valves and accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43511 What requirements apply to safety devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43511, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43513 What types of systems may be used on commercial vehicles? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43513, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43515 What requirements apply to enclosures and mounting? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43515, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43517 What requirements apply to piping, tubing, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43517, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43519 What requirements apply to appliances? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43519, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43521 What general precautions must be followed for LP-gas system installations on commercial vehicles? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43521, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43523 How must containers be charged? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43523, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-43525 What fire protection must be provided for mobile cook units? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-43525, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-440 LP-gas service stations. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-440, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44003 How must storage containers be designed and classified? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44005 What requirements apply to valves and accessories? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44007 What requirements apply to safety devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44009 What is the maximum capacity allowed for containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44011 How must storage containers be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44013 What equipment must be protected against tampering? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44015 What requirements apply to the transport truck unloading point? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44017 What requirements apply to piping, valves, and fittings? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44019 What requirements apply to pumps and accessory equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44021 What requirements apply to LP-gas dispensing devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44023 Is smoking allowed at LP-gas service stations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-44025 What fire protection must be provided at LP-gas service stations? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-44025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-450 Other hazardous materials. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-450, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45001 What general requirements apply to hazardous materials and flammable and combustible liquids? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45003 What requirements apply to dip tanks containing flammable or combustible liquids? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45005 What definitions apply to this section? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45007 What requirements must ventilation systems meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45009 What general requirements apply to the construction of dip tanks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45011 How must overflow pipes for dip tanks be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45013 How must the bottom drains of dip tanks be constructed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45015 How must liquids used in dip tanks be stored and handled? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45017 What measures must an employer take to prevent hazards from electrical and other ignition sources? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45019 How must dip tanks be operated and maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45021 What requirements must fire extinguishing systems meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45023 What requirements apply to hardening and tempering tanks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45025 What requirements apply to flow coat applications? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45027 What requirements apply to electrostatic apparatus? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-45029 What requirements apply to roll coating applications? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-45029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-475 Welding, cutting, and brazing. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-475, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-47501 What definitions apply to this part? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-47501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-480 Installation and operation of oxygen fuel gas systems for welding and cutting. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-480, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48001 What general requirements apply to oxygen fuel gas systems? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48003 What requirements apply to portable cylinders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48005 What general requirements apply to storing compressed gas cylinders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48007 How must fuel-gas cylinders be stored? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48009 How must oxygen cylinders be stored? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48011 What general operating procedures apply to working with cylinders and containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48013 What requirements apply to safety devices on cylinders? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48015 How must cylinders be transported? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48017 How must cylinders be handled? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48019 What requirements apply to cylinder valves? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48021 What requirements apply to cylinder regulators? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48023 What requirements apply to fuel-gas manifolds? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48025 What requirements apply to high pressure oxygen manifolds? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48027 What requirements apply to low pressure oxygen manifolds? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48029 What requirements apply to manifolding portable outlet headers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48031 What operating procedures apply to cylinder manifolds? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48031, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48033 How must service piping systems be designed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48035 What requirements apply to piping joints? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48035, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48037 How must service piping systems be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48037, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48039 How must service piping systems be painted and marked? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48041 How must service piping systems be tested? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48041, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48043 How must equipment be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48043, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48045 How must service piping systems be protected? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48045, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48047 What requirements apply to piping protective equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48047, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48049 What requirements apply to station outlet protective equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48049, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48051 What requirements apply to hose and hose connections? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48051, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48053 What requirements apply to pressure-reducing regulators? [Statutory Authority: RCW 49.17.040,

[49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48053, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-485 Installation and operation of resistance welding equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-485, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48501 What general requirements apply to resistance welding equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48503 What requirements apply to portable welding machines? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48505 What requirements apply to flash welding equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48507 Who must perform a job hazard analysis? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-48509 What maintenance requirements apply to resistance welding equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-48509, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-490 Application, installation, and operation of arc welding and cutting equipment. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-490, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49001 What environmental conditions must be taken into account when selecting arc welding equipment? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49003 What voltages must arc welding equipment use? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49005 How must arc welding equipment be designed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49007 How must arc welding equipment be installed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49009 How must arc welding equipment be grounded? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49011 What requirements apply to supply connections and conductors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49013 How must arc welding equipment be operated? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49015 How must arc welding equipment be maintained? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-495 Fire prevention and protection. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-495, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49501 What basic fire prevention precautions must be taken? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49501, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49503 What special fire prevention precautions must be taken? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49503, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49505 What precautions must be taken when welding or cutting containers? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49505, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-49507 What precautions must be taken when welding in confined spaces? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-49507, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-500 Protection of employees. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-500, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50001 How must eye protection be selected? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50003 What specifications must eye protection meet? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50005 What protective clothing must welders wear? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50007 What other requirements apply to employee protection? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50009 What employee protection must be provided in confined spaces? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50011 What general requirements apply to welding ventilation? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50013 What ventilation must be provided for general welding and cutting? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50015 What requirements apply to local exhaust hoods and booths? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50017 What ventilation must be provided in confined spaces? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50019 What requirements apply to welding fluorine compounds? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50021 What requirements apply to welding zinc? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50023 What requirements apply to welding lead? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50025 What requirements apply to welding beryllium? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50027 What requirements apply to welding cadmium? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-50029 What requirements apply to welding mercury? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-50029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-520 Powered industrial trucks (forklifts). [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-520, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52003 What is a "powered industrial truck"? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52005 What manufacturers requirements apply to powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52007 What are the classifications of powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52009 What must a user consider before choosing a powered industrial truck? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52011 What requirements determine which trucks to use in specific hazardous environments? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52013 In what environments may converted trucks be used? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52015 What requirements apply to overhead safety guards? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52017 What requirements apply to load backrests? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52019 What requirements apply to fuel handling and storage? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52019, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52021 What requirements apply to lighting for operating areas? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52021, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52023 What level of carbon monoxide gas is allowed? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52023, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52025 What requirements apply to dockboards (bridge plates)? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52025, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52027 What rules apply to loading trucks, trailers, and railroad cars with powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52027, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52029 Who may operate powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52029, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52031 What requirements apply to operating powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52031, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52033 When may trucks be used to open or close freight car doors? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52033, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52035 What requirements apply to lifting employees on the forks of trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52035, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52037 What requirements apply to using platforms for hoisting employees? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52037, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52039 What requirements apply to traveling in a powered industrial truck? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52039, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52041 What requirements apply to traveling speeds of powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52041, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52043 What requirements apply to loading powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52043, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52045 What requirements apply to servicing powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52045, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-52047 What requirements apply to maintaining powered industrial trucks? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-52047, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-530 Rim wheel servicing. [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-530, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53001 What does this section cover? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53001, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53003 What definitions apply to rim wheel servicing? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53003, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53005 What training must an employer provide for employees who service rim wheels? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53005, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53007 What requirements apply to restraining devices? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53007, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53009 What other equipment must an employer provide for rim wheel servicing? [Statutory Authority: RCW

49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53009, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53011 What requirements apply to wheel component assembly? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53011, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53013 What are the safe operating procedures for servicing multipiece rim wheels? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53013, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53015 What are the safe operating procedures for servicing single-piece rim wheels? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53015, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

296-306A-53017 How can an employer order the OSHA charts? [Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 96-22-048, § 296-306A-53017, filed 10/31/96, effective 12/1/96.] Decodified by 97-09-013, filed 4/7/97, effective 4/7/97.

Chapter 296-400
CERTIFICATION OF COMPETENCY FOR JOURNEYMAN PLUMBERS

296-400-005 Definitions. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-005, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-010 Examination fee and notification. [Order 73-20, § 296-400-010, filed 10/29/73.] Repealed by 83-19-044 (Order 83-26), filed 9/16/83. Statutory Authority: RCW 18.106.140 and 1983 c 124 § 10.

296-400-020 Plumbers with license or practicing the plumbing trade at effective date of the act. [Order 76-2, § 296-400-020, filed 1/30/76; Order 73-20, § 296-400-020, filed 10/29/73.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-030 Issuing of temporary certificate. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-030, filed 9/17/86. Statutory Authority: RCW 18.106.140 and 1983 c 124 § 10. 83-19-044 (Order 83-26), § 296-400-030, filed 9/16/83; Order 74-13, § 296-400-030, filed 4/15/74; Order 73-20, § 296-400-030, filed 10/29/73.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-035 Inactive status. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-035, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-040 Requirements for an apprentice permit. [Order 74-13, § 296-400-040, filed 4/15/74; Order 73-20, § 296-400-040, filed 10/29/73.] Repealed by Order 75-27, filed 8/4/75.

296-400-045 Plumber examination, certification, reinstatement, and temporary permit fees. [Statutory Authority: RCW 18.106.125. 89-12-004 (Order 89-04), § 296-400-045, filed 5/25/89; 88-06-037 (Order 87-32), § 296-400-045, filed 2/29/88. Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-045, filed 9/17/86. Statutory Authority: RCW 18.106.140 and 1983 c 124 § 10. 83-19-044 (Order 83-26), § 296-400-045, filed 9/16/83.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-050 Meetings of governor's advisory board. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-050, filed 9/17/86; Order 73-20, § 296-400-050, filed 10/29/73.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-070 Reciprocity. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-070, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-100 Computation of years of employment. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-100, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-110 Previous experience credit. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-110, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-120 Plumber trainee certificates. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-120, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-130 Penalties for false statements or material misrepresentation. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-130, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-140 Enforcement. [Statutory Authority: Chapter 18.106 RCW. 86-19-083 (Order 86-30), § 296-400-140, filed 9/17/86.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

296-400-300 Procedures for notices of infraction. [Statutory Authority: RCW 18.27.040, 18.27.200 and 18.106.020. 84-12-018 (Order 84-08), § 296-400-300, filed 5/25/84.] Repealed by 97-11-052, filed 5/20/97, effective 6/30/97. Statutory Authority: RCW 18.106.050, [18.106.]070, [18.106.]110, [18.106.]125, [18.106.]140 and [18.106.]270.

Reviser's note: Later promulgation, see chapter 296-400A WAC.

Chapter 296-401
CERTIFICATION OF COMPETENCY FOR JOURNEYMAN ELECTRICIANS

296-401-010 Examination and fees. [Statutory Authority: RCW 19.28.060 and 19.28.210. 82-18-036 (Order 82-29), § 296-401-010, filed 8/26/82; Order 73-21, § 296-401-010, filed 11/5/73.] Repealed by 83-23-053 (Order 83-32), filed 11/14/83. Statutory Authority: RCW 19.28.120 and 19.28.510.

296-401-020 Electricians with licenses or practicing the electrical trade at effective date of the act. [Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-020, filed 2/27/81, effective 4/1/81; Order 76-3, § 296-401-020, filed 1/30/76; Order 73-21, § 296-401-020, filed 11/5/73.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-030 Issuing of temporary permits. [Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-030, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-030, filed 8/29/86. Statutory Authority: RCW 19.28.120 and 19.28.510. 83-23-053 (Order 83-32), § 296-401-030, filed 11/14/83; Order 74-12, § 296-401-030, filed 4/15/74; Order 73-21, § 296-401-030, filed 11/5/73.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-040 Requirements for an apprentice permit. [Order 74-12, § 296-401-040, filed 4/15/74; Order 73-21, § 296-401-040, filed 11/5/73.] Repealed by Order 75-26, filed 8/4/75.

296-401-050 Meetings of governor's advisory board. [Order 73-21, § 296-401-050, filed 11/5/73.] Repealed by 81-06-037 (Order 81-5), filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 19.28.060.

296-401-060 Specialty certificates. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-060, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-060, filed 8/29/86. Statutory Authority: RCW 19.28.120 and 19.28.510. 83-23-053 (Order 83-32), § 296-401-060, filed 11/14/83. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-060, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-070 Eligibility for specialty examination. [Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-070, filed 1/16/80.] Repealed by 83-23-053 (Order 83-32), filed 11/14/83. Statutory Authority: RCW 19.28.120 and 19.28.510.

296-401-075 Electrical linemens exemption. [Statutory Authority: RCW 19.28.600. 93-03-048, § 296-401-075, filed 1/15/93, effective 2/15/93.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-080 Eligibility for journeyman examination. [Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-080, filed 5/28/97, effective 6/30/97. Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-080, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-080, filed 8/29/86. Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-080, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-080, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-085 Eligibility for specialty examination. [Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-085, filed 7/21/88.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-087 Partial credit for experience. [Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-087, filed 7/21/88.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-090 Status of person who has failed an examination for an electrician certificate of competency. [Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-090, filed 5/28/97, effective 6/30/97. Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-090, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-090, filed 8/29/86. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-090, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-100 Computation of years of employment—Renewal of training certificates. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-100, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-100, filed 5/28/97, effective 6/30/97. Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-100, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-100, filed 8/29/86. Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-100, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-100, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-110 Previous experience credit. [Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-110, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-120 Electrical training certificates. [Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-120, filed 5/28/97, effective 6/30/97. Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-120, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-120, filed 8/29/86. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-120, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-130 Annual renewal of electrical journeyman, specialty, and trainee certificates. [Statutory Authority: RCW 19.28.600. 83-12-021 (Order 83-14), § 296-401-130, filed 5/25/83. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-130, filed 1/16/80.] Repealed by 83-23-053 (Order 83-32), filed 11/14/83. Statutory Authority: RCW 19.28.120 and 19.28.510.

296-401-140 Supervision of trainees in the electrical trades. [Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-140, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-140, filed 1/16/80.] Repealed by 83-23-053 (Order 83-32), filed 11/14/83. Statutory Authority: RCW 19.28.120 and 19.28.510.

296-401-150 Penalties for false statements or material misrepresentation. [Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-150, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-150, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-160 Enforcement. [Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-160, filed 8/29/86. Statutory Authority: RCW 19.28.120 and 19.28.510. 83-23-053 (Order 83-32), § 296-401-160, filed 11/14/83. Statutory Authority: RCW 19.28.060. 81-06-037 (Order 81-5), § 296-401-160, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-160, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-163 Continuing education classes. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-163, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.065 and 19.28.550. 94-01-005, § 296-401-163, filed 12/1/93, effective 1/1/94.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-165 Issuing and renewing an electrician certificate of competency. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-165, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-165, filed 5/28/97, effective 6/30/97. Statutory Authority: RCW 19.28.550. 94-01-005, § 296-401-165, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-165, filed 8/29/86. Statutory Authority: RCW 19.28.120 and 19.28.510. 83-23-053 (Order 83-32), § 296-401-165, filed 11/14/83.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-168 Reciprocal electrician certificates. [Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-168, filed 8/29/86.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-170 Hearing or appeal procedure. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-170, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-170, filed 7/21/88. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-170, filed 8/29/86. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-170, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-175 Journeyman, specialty and trainee certificate, and examination fees. [Statutory Authority: Chapter 19.28 RCW. 97-24-033, § 296-401-175, filed 11/25/97, effective 12/29/97. Statutory Authority: RCW 19.28.060, [19.28.]210(6), [19.28.]350 and [19.28.]600. 97-12-016, § 296-401-175, filed 5/28/97, effective 6/30/97. Statutory Authority: Chapter 19.28 RCW (RCW 19.28.060, [19.28].550, [19.28].600). 95-15-034, § 296-401-175,

filed 7/12/95, effective 8/14/95. Statutory Authority: RCW 19.28.060, 19.28.010(1), 19.28.600, 19.28.510(2), 19.28.540(2) and 19.28.550. 92-09-010, § 296-401-175, filed 4/2/92, effective 5/3/92. Statutory Authority: RCW 19.28.060, 19.28.600, 19.28.510(2), 19.28.540(2) and 19.28.550. 90-17-041, § 296-401-175, filed 8/10/90, effective 9/10/90. Statutory Authority: RCW 19.28.060, 19.28.600 and chapter 19.28 RCW. 86-18-041 (Order 86-23), § 296-401-175, filed 8/29/86. Statutory Authority: RCW 19.28.060 and 19.28.210. 85-20-065 (Order 85-16), § 296-401-175, filed 9/27/85. Statutory Authority: RCW 19.28.120 and 19.28.510. 83-23-053 (Order 83-32), § 296-401-175, filed 11/14/83.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

296-401-180 Examination subjects for specialty and journeyman certificates of competency. [Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-401-180, filed 7/21/88; 81-06-037 (Order 81-5), § 296-401-180, filed 2/27/81, effective 4/1/81. Statutory Authority: RCW 18.37.130. 80-02-052 (Order 80-1), § 296-401-180, filed 1/16/80.] Repealed by 98-12-042, filed 5/29/98, effective 6/30/98. Statutory Authority: Chapter 19.28 RCW.

Chapter 296-04 WAC

INTERNAL RULES—STATE APPRENTICESHIP AND TRAINING COUNCIL

AFFIRMATIVE ACTION PLAN OF THE WASHINGTON STATE APPRENTICESHIP COUNCIL TO PROMOTE EQUAL EMPLOYMENT OPPORTUNITY IN APPRENTICESHIP AND TRAINING

WAC

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296-04-020 Special meetings. [§ II, filed 3/23/60.] See WAC 296-04-030(1). This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-030 Executive meetings. [§§ III and IV, filed 10/11/65; §§ III and IV, filed 2/12/65; § II A, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-040.

296-04-050 Minutes of meetings. [§ VI, filed 10/11/65; § VI, filed 2/12/65; § IV, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-060.

296-04-070 Ex officio members. [§ VIII, filed 10/11/65; § VIII, filed 2/12/65; § V A, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-060.

296-04-080 Agencies consulted. [§ IX, filed 10/11/65; § IX, filed 2/12/65; § V B, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-060.

296-04-100 Official action. [§ XI, filed 10/11/65; § XI, filed 2/12/65; § VI A, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71.

296-04-110 Interim action. [§ VI B, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-120 Duration of and change of policies. [§ VII, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-130 Submission of petitions and requests. [§ XIV; filed 10/11/65; § XIV, filed 2/12/65; § VIII, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-040.

296-04-140 Where matters sent. [§ XV, filed 10/11/65; § XV, filed 2/12/65; § VIII A, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-045.

296-04-150 Delegation to director of apprenticeship. [§ IX, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-170 Program deviation from approved standards. [§ XVII, filed 10/11/65; § XVII, filed 2/12/65; § X B; filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-270.

296-04-180 Program cancellation. [§ XVIII, filed 10/11/65; § XVIII, filed 2/12/65; § X C, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-270.

296-04-190 Effect of program cancellation. [§ XIX, filed 10/11/65; § XIX, filed 2/12/65; § X D, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-270.

296-04-195 Proposed programs must conform to council standards. [§ XX, filed 10/11/65; § XX, filed 2/12/65.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-270.

296-04-200 Certificates of completion. [§ XXI, filed 10/11/65; § XXI, filed 2/12/65; § XI, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-270.

296-04-210 Construction limit of rules. [§ XII, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-220 Director may obtain consultants. [§ XIII, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-225 Consultants. [§ XXII, filed 10/11/65; § XXII, filed 2/12/65.] Repealed by Order 71-3, filed 3/25/71.

296-04-230 Role of consultants. [§ XIV A, filed 3/23/60.] This section has been decodified as it was omitted from "The rules and regulations of the Washington state apprenticeship council, " filed 2/12/65 and 10/11/65.

296-04-240 Dissemination of information by consultants limited. [§ XXIII, filed 10/11/65; § XXIII, filed 2/12/65; § XIV B, filed 3/23/60.] Repealed by Order 71-3, filed 3/25/71.

296-04-250 Signatures accepted. [§ XXIV, filed 10/11/65; § XXIV, filed 2/12/65.] Repealed by Order 71-3, filed 3/25/71. See WAC 296-04-160.

296-04-290 Appeal procedure. [Order 76-4, § 296-04-290, filed 2/20/76; Order 72-18, § 296-04-290, filed 11/8/72;

	Order 71-3, § 296-04-290, filed 3/25/71.] Repealed by 79-09-003 (Order 79-13), filed 8/2/79. Statutory Authority: RCW 49.04.010.
296-04-320	Definitions. [Order 71-13, § 296-04-320, filed 10/28/71.] Repealed by 95-07-117, filed 3/21/95, effective 4/21/95. Statutory Authority: RCW 49.04.010.
296-04-490	Appeal. [Order 71-13, § 296-04-490, filed 10/28/71.] Repealed by 80-03-004 (Order 80-2), filed 2/8/80. Statutory Authority: RCW 49.04.010.
296-04-500	Registration fees for apprenticeship and training agreements and standards. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-500, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-501	Registration fees for apprenticeship and training agreements. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-501, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-502	Registration fees for apprenticeship and training standards. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-502, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-503	Registration fees for apprenticeship and training standards—Limitation on fees. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-503, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-504	Registration fees—Application to existing apprenticeship and training agreements and standards. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-504, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-505	Registration fees for apprenticeship and training agreements and standards—Effect of failure to make timely payment. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-505, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.
296-04-506	Registration fees for apprenticeship and training agreements and standards—Mailing address. [Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-506, filed 10/29/82.] Repealed by 84-04-024 (Order 84-1), filed 1/25/84. Statutory Authority: 1983 c 90.

INTERNAL RULES

WAC 296-04-001 Foreword. The Washington State Apprenticeship and Training Act, RCW 49.04.010 - 49.04.910, establishes the council and its administrative arm, the apprenticeship and training division of the department of labor and industries. The intention of the council and department in promulgating and adopting these rules is to establish a uniform procedure to be followed by state and local apprenticeship and training committees in presenting matters to the state apprenticeship and training council and further to establish standards by which the council can operate to effectuate its statutory obligations set forth in the apprenticeship act.

The Washington state apprenticeship and training council recognizes the importance of quality apprenticeship programs to meet the growing needs of employers and employees for high quality training. The council also recognizes that rapid changes in our state's economy and technological change necessitates skilled workers who meet industry-wide standards in order to compete successfully in the changing marketplace. Employers will benefit by knowing that skilled workers who have graduated from a state recognized apprenticeship program have been trained to industry-wide standards and not exclusively in response to the needs of an individual employer or group of employers.

The council also recognizes that the delivery and regulation of apprenticeship programs should be conducted in a manner which avoids needless duplication on the part of the department of labor and industries, community colleges, and vocational-technical institutes. It is important that approved apprenticeship programs be structured to maximize the protection of the apprentice by providing a meaningful process which allows the apprentice to ensure that his or her rights as an apprentice are protected throughout the term of the apprenticeship.

The council further recognizes that the number of apprentices in a trade or group of trades in any geographic area must be sufficient to meet the needs of all employers and not be so large as to create an oversupply of apprentices. Because quality apprenticeship training requires reasonably continuous on-the-job training, an oversupply of apprentices in any geographic area is to be avoided, if possible, in an effort to maintain ongoing quality training.

The council further recognizes that the attainment of quality apprenticeship training and the planning of numbers of new apprentices in a trade or group of trades will be accomplished best by the establishment of one joint apprenticeship and training committee serving the entire trade or group of trades in a specified geographic area. A single committee is best able to train to industry-wide standards which will enable workers to move between firms when economic necessity requires. A single committee is best able to determine the number of apprentices needed in an entire trade or group of trades in a specified geographic area.

The council also recognizes the benefit apprentices gain in having the widest range of employers and their apprentices represented in the related and supplemental training classes. The intermingling of apprentices representing the widest array of firms possible, in related and supplemental training classes, exposes apprentices to the widest possible range of work experiences. This sharing of work experiences increases the quality of training, benefiting both apprentices and employers.

The council intends that apprenticeship programs be available to meet the training needs of all employers in the state of Washington. These programs are open to all employers on an equal and nondiscriminatory basis. The need for continued quality training, equal treatment of apprentices, and efficient delivery of training suggest that these training needs are best met through existing programs.

As provided in WAC 296-04-160, committees approved by the council shall offer training opportunities on an equal basis to all employers. Existing committees are expected to provide apprenticeship and training opportunities for employers not currently participating in the program:

(1) At a reasonable cost that is equivalent to the cost incurred by employers and apprentices currently participating;

(2) With equal treatment and opportunity for all apprentices; and

(3) With reasonable working and training conditions that apply to all apprentices uniformly and equally;

(4) An employer shall not be required to sign a collective bargaining agreement in order to participate in an apprenticeship program.

(5) All employers requesting "approved training agent" status shall sign an agreement agreeing to comply with all federal or state apprenticeship rules and the appropriate apprenticeship standards. When the sponsor approves the "approved training agent" agreement, he/she shall furnish the department with a copy and shall notify the department when any agreement is rescinded.

All policies and rules of the council are designed to strengthen apprenticeship and training in the state of Washington, as well as to explain related factors established under existing state and federal laws. The council, as the responsible legislative organ governing apprenticeship and training, requests the cooperation and assistance of all interested persons, organizations, and agencies functioning within the framework of the rules and regulations.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-001, filed 3/21/95, effective 4/21/95. Statutory Authority: RCW 49.04.010 and 49.04.040. 90-21-118, § 296-04-001, filed 10/22/90, effective 11/22/90; Order 71-3, § 296-04-001, filed 3/25/71; Foreword, filed 10/11/65, filed 2/12/65, filed 3/23/60.]

WAC 296-04-005 Apprenticeship and training agreements—Proposed standards. The Washington state apprenticeship and training council is the body responsible for matters concerning apprenticeship and training in the state of Washington. The principal function of the council is to approve and register apprenticeship and training agreements. Persons or organizations desiring to institute an apprenticeship or training program must first create a committee and submit affidavits to the Washington state apprenticeship and training council requesting that the council recognize the committee. The committee must then prepare proposed standards which conform to these rules and to RCW 49.04.050. The standards must also include the composition of and general rules for the committee which will administer the program. The supervisor, or Washington state apprenticeship coordinators, are available to give assistance in this task.

These standards, which will be either a plant program or committee program as defined herein, must then be presented to the supervisor at least 45 days before the regular meeting at which the council will be requested to consider such proposed standards. The standards proposed will then be discussed by the council and approved, disapproved, or approved subject to enumerated changes. The council, at its meetings, will allow changes made for clerical errors and additions of standard approved language deleted from the proposed standard if authorized representatives of all concerned are present and authorized to accept changes. The council will not accept changes at its meetings in the format or language not deemed standard by the council.

The committee thus set up then begins functioning. Its duties are to run the day to day operations of the apprenticeship and training program. It is charged with operating the program in accordance with the standards as approved by the council. It is charged with accepting or rejecting applicants for apprenticeship or training, registering accepted applicants as apprentices or trainees with the supervisor of apprenticeship and training, removing apprentices or trainees from the program in accordance with the standards and informing the supervisor of any matters which affect the standing of individuals as apprentices or trainees. Persons not registered with the supervisor as apprentices or trainees cannot be recognized as apprentices or trainees by the council.

The supervisor and his staff may be consulted on any matters concerning apprenticeship and training, and they will provide any information concerning apprenticeship training which is available to them. They are also required to investigate any discrepancies between the actual and required operation of any program and conduct systematic reviews of the operation of all programs. The supervisor may recommend cancellation of any program which is not operated in accordance with its approved standards after notice of violation is given in accordance with the provisions of WAC 296-04-270(3).

The supervisor and the council will act to assist in the resolution of any complaints against local committees, or other organizations administering apprenticeship agreements, by any apprentices who have completed their probationary period, as provided in WAC 296-04-295.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-005, filed 3/21/95, effective 4/21/95. Statutory Authority: Chapter 49.04 RCW. 85-22-035 (Order 85-31), § 296-04-005, filed 11/1/85. Statutory Authority: RCW 49.04.010. 80-03-004 (Order 80-2), § 296-04-005, filed 2/8/80; Order 71-3, § 296-04-005, filed 3/25/71.]

WAC 296-04-010 Regular meetings. The council shall hold regular (quarterly) business meetings at such locations and times within the state, that will best serve apprenticeship. Notice of meetings, when called by the chairman, shall be sent to all council members, ex officio members, approved joint apprenticeship committees, and may be sent to such other person, persons, organizations or agency whose presence is desired, thirty days prior to such meetings.

[§ II, filed 10/11/65; § II, filed 2/12/65; § 1, filed 3/23/60.]

WAC 296-04-015 Definitions. Whenever in these rules and regulations, the following words shall have these meanings:

(1) "Council" shall mean the Washington state apprenticeship and training council established pursuant to RCW 49.04.010.

(2) The words "apprenticeship committee" shall mean a state or local joint apprenticeship committee established pursuant to RCW 49.04.040.

(3) The words "regular meeting" shall mean a public meeting of the council as described in WAC 296-04-040(1).

(4) The term "special meeting" shall mean a public meeting of the council as described in WAC 296-04-040(2).

(5) The word "supervisor" shall mean the supervisor of apprenticeship and training appointed pursuant to RCW 49.04.030.

(6) The term "agreement" shall mean an apprenticeship agreement and/or training agreement.

(7) The term "plant program" is defined in WAC 296-04-050.

(8) The term "individual agreement" shall mean a written agreement between an apprentice and/or trainee and either his employer or an apprenticeship committee acting as agent for the employer.

(9) The term "committee program" shall mean an apprenticeship agreement described in WAC 296-04-270 (1)(a) through (k).

(10) The term "on-the-job training program" shall mean a program described in WAC 296-04-280.

(11) The term "trainee" shall mean a person registered with the supervisor pursuant to WAC 296-04-270 or 296-04-280.

(12) The term "apprentice" shall mean a person registered with the supervisor pursuant to an apprenticeship training program pursuant to WAC 296-04-270 for purposes of chapter 49.04 RCW and these rules.

(13) The term "standards" shall mean a written agreement setting forth a plan containing all terms and conditions for the qualifications, recruitment, selection, employment, and training of apprentices, as further defined in RCW 49.04.050.

(14) The term "registration" shall mean the maintenance of records of apprenticeship and training agreements and of apprenticeship and training standards.

(15) The term "sponsor" shall mean any firm, association, committee, or organization operating an apprenticeship and training program through an employer and employee relationship and in whose name the program is registered or is to be registered.

(16) The term "department" shall mean the department of labor and industries.

(17) The term "related/supplemental instruction" shall mean that instruction that is approved by the program sponsor. It shall be taught by a trade competent instructor who shall have demonstrated said competency by satisfactory employment performance in the occupation for a period of a minimum of three years beyond the customary learning period for this occupation. Instructors shall be approved by the sponsor. The sponsor shall review said instruction annually for relevancy and currentness. Relevancy shall mean instructional content that is directly required in and applicable to the performance of the work. Relevancy shall not mean academic course content taught by a solely academically qualified instructor except for courses approved by the committee or specified by state law. Currentness means that the instructional content is and remains consistent with the latest trade practices, improvements, and technical advances.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-015, filed 3/21/95, effective 4/21/95. Statutory Authority: 1982 1st ex.s. c 39 §§ 1, 3. 82-22-042 (Order 82-30), § 296-04-015, filed 10/29/82. Statutory Authority: RCW 49.04.010. 80-03-004 (Order 80-2), § 296-04-015, filed 2/8/80; Order 76-4, § 296-04-015, filed 2/20/76; Order 71-13, § 296-04-015, filed 10/28/71; Order 71-3, § 296-04-015, filed 3/25/71; § I, filed 10/11/65; § I, filed 2/12/65.]

WAC 296-04-040 Council meetings—When held—Notice—Who may attend—Quorum. Council meetings shall be of two kinds—regular and special meetings.

(1) **Regular meetings.** Regular meetings of the council shall be held at least quarterly during each year beginning on the third Thursday of the months of January, April, July and October. Such regular meetings shall be held at such locations within the state of Washington which in the opinion of the council will best promote the purposes of the Washington State Apprenticeship and Training Act. All meetings of the council shall be open to the general public, and all actions, transaction of official business of the council, collective decision, commitment or promise, and all collective discussion, acquisition and exchange of facts in the course of deliberation prior to any action of the council shall only be made in meetings open to the public consistent with the provisions of the Open Public Meetings Act of 1971 (chapter 250, Laws of 1971 1st ex. sess.) and chapter 34.05 RCW. No member of the general public will be required as a condition upon attending any council meeting to register his name or give any other information or to fulfill any condition precedent to his attendance at council meetings. Notice of such meetings shall be given to all approved committees and may be given to any persons, organizations, or agencies at the direction of the council, or any member thereof, and in addition shall be given to any newspaper, news service, television or radio station which has requested to be notified of council meetings. Committee programs, plant programs, or amendments thereto, may be approved or disapproved only at regular meetings.

(2) **Special meetings.** Special meetings of the council may be called by the chairman or by majority of the council members by delivering personally or by mail written notice to each member of the council and all approved joint apprenticeship and training committees and to each newspaper of general circulation, television or radio station which has on file with the council or the supervisor a request to be notified of such special meeting of the council, which shall be ineffective unless it sets forth the date, time and location of the meeting and specifies the business to be transacted by the council at such special meeting. Final disposition may not be made of any matter at such special meeting other than specified in the notice of such special meeting. Special meetings shall be open to the general public to the same extent as the quarterly regular meetings of the council. Notice of special meetings must be delivered personally or by mail at least twenty-four hours before the time specified in the notice of such special meeting, except in the case of rule changes pursuant to chapter 34.05 RCW which must be at least twenty days before the time specified in the notice.

(3) **Notice of council meetings.** Notice of each quarterly regular meeting of the council shall be given to all council members by the supervisor at least twenty days before the date set for the meeting and in addition shall give notice to such other persons and organizations as specified in subsection (1) of this section.

(4) **Notice of special meetings of the apprenticeship council.** Notice of special meetings of the council may be given by the supervisor at the request of the chairman or the majority of the members of the council in the manner and form specified in subsection (2) of this section. If such notices are not given, no action taken by the council shall be effective at such meetings unless each regular council member at such meeting, or prior thereto, gives a written waiver of notice of such meeting to be filed by the supervisor and the notice shall be deemed to be waived by any member who is present at the meeting at the time it convenes. *Provided,* That rule change may not be made at such special meeting unless the requirements of chapter 34.05 RCW have been complied with.

(5) **Submission of petitions or requests.** The council will not act upon any petition or request which is addressed to the council unless such a petition or request is submitted in writing to the supervisor at least forty-five days prior to the date of such quarterly regular meeting, and any petitions or requests not submitted forty-five days prior to such quarterly meeting shall be deferred to the next quarterly regular meeting of the council and the petitioner shall be so notified by the supervisor.

(6) Correspondence other than that referenced in WAC 296-04-005 and 296-04-040 (1), (2) and (5), shall be submitted in writing to the supervisor of apprenticeship at least fifteen working days before the quarterly meeting at which the council's consideration is requested. However, the supervisor of apprenticeship may consider such correspondence submitted less than fifteen working days before the meeting if the council determines the correspondence is crucial to deliberations regarding approval or disapproval of any given apprenticeship agreement. Noncrucial correspondence submitted less than fifteen working days before the quarterly meeting shall be considered by the council at the following quarterly meeting.

(7) **Quorum.** Two-thirds of the council members entitled to vote shall be considered a quorum.

[Statutory Authority: RCW 49.04.010. 90-10-021, § 296-04-040, filed 4/23/90, effective 5/24/90. Statutory Authority: Chapter 49.04 RCW. 85-22-035 (Order 85-31), § 296-04-040, filed 11/1/85. Statutory Authority: RCW 49.04.010. 79-03-023 (Order 79-3), § 296-04-040, filed 2/22/79; Order 72-8, § 296-04-040, filed 6/8/72; Order 71-3, § 296-04-040, filed 3/25/71; § V, filed 10/11/65; § V, filed 2/12/65; § III, filed 3/23/60.]

WAC 296-04-042 Voting. The council chair shall establish a standing committee to be known as the tie-breaker committee, comprised of an employer representative, an employee representative, and the public member. In case of a tie vote on proposed standards at any meeting of the council, the tie-breaker committee shall meet or confer, review the record, and render a decision on the proposal within thirty days. The supervisor or a designee of the supervisor shall act as secretary to the committee and furnish all information necessary for a decision.

[Statutory Authority: RCW 49.04.010. 90-16-031, § 296-04-042, filed 7/23/90, effective 8/23/90.]

WAC 296-04-045 Supervisor-administrator of council. The supervisor shall be the administrator of the council. He shall perform the duties listed in RCW 49.04.030 and, in addition, he shall register all agreements conforming to WAC 296-04-270 in his office, review programs and their operation, and recommend cancellation of any committee program, or plant program previously registered which is not operated in conformity with its agreement. All documents concerning apprenticeship or training agreements, their revision or any other matters affecting apprenticeship or training shall be sent to him. Such documents may be addressed to: Supervisor of Apprenticeship and Training, Department of Labor and Industries, Olympia, Washington.

[Order 71-3, § 296-04-045, filed 3/25/71.]

WAC 296-04-05001 Plant program defined. For the purpose of these rules a "plant program," over which the council will assume jurisdiction and serve as a joint apprenticeship and training committee, pursuant to the authority of RCW 49.04.040, means: An apprenticeship agreement or agreements with an employer which conforms in form and substance with the applicable provisions of these rules and chapter 49.04 RCW in an apprenticeable trade, craft or occupation in which a major portion of the work to be performed by the apprentice for such employer is within a geographical area not served by an approved local joint apprenticeship and training committee. The apprenticeship agreement must specify the number of required hours for completion of apprenticeship, which must equal or exceed the average number of hours for such trade, craft or occupation within this state, which in any event shall not be less than 2,000 hours of reasonably continuous employment.

[Statutory Authority: RCW 49.04.010. 80-03-004 (Order 80-2), § 296-04-050 (codified as WAC 296-04-05001), filed 1/8/80; Order 72-18, § 296-04-050, filed 11/8/72.]

WAC 296-04-060 Officers, appointment, duties—Ex officio members. The officers of the council shall be a chairman, vice chairman, and secretary.

(1) Chairman and vice chairman.

(a) The chairman and vice chairman shall be elected by majority vote of the council members present and voting at the quarterly business meeting nearest to the month of June in each odd-numbered year. They shall hold office for a term of two years and until their successors are elected, or until their death or resignation.

(b) The chairman shall preside over all meetings, conducting them in accordance with *Robert's Rules of Order* as modified by these rules and regulations. He may vote in all matters before the council as a regular member and may participate in discussion of all matters before the council. He shall have such other powers and duties as are now or hereafter provided in these rules and regulations and as are usual or necessary to chairmen, as provided in *Robert's Rules of Order.*

(c) The vice chairman shall preside over all council meetings in the absence of the chairman. He shall have all of the powers and duties of chairman when he is so presiding.

(2) Secretary:

(a) The supervisor shall be the secretary of the council. He shall hold the office of secretary during his tenure as supervisor.

(b) The secretary shall, with the assistance of a recording secretary, keep minutes of all special and regular meetings. He shall keep a copy of the minutes of all regular and special meetings on file in his office as supervisor. He shall forward copies of minutes of all meetings to all regular and ex officio members of the council and shall make copies of the minutes of all meetings available to the public upon written request. He shall have other powers and duties as are provided in these rules and regulations and as are usually or necessarily concomitant with the office of secretary.

(3) Ex officio members of the council shall have the full right to participate in discussion of any matters before the council. They shall have no vote.

[Statutory Authority: Chapter 49.04 RCW. 85-22-035 (Order 85-31), § 296-04-060, filed 11/1/85; Order 76-4, § 296-04-060, filed 2/20/76; Order 71-3, § 296-04-060, filed 3/25/71; § VII, filed 10/11/65; § VII, filed 2/12/65; § V, filed 3/23/60.]

WAC 296-04-090 Rules of order. *Robert's Rules of Order* shall prevail at all meetings unless otherwise provided for by these rules.

[§ X, filed 10/11/65; § X, filed 2/12/65; § VI, filed 3/23/60.]

WAC 296-04-105 Retroactivity. The council may make any action or decision which it takes retroactive to the date of the previous business session.

[Order 71-3, § 296-04-105, filed 3/25/71; § XII, filed 10/11/65; § XII, filed 2/12/65.]

WAC 296-04-115 Amendment. These rules and regulations may be amended by a two-thirds majority of regular council members. All council members, the supervisor, the committees and any other interested persons shall be promptly notified of any changes in writing. Such amendments shall be promulgated in accordance with the Administrative Procedure Act, Title 34 RCW.

[Order 71-3, § 296-04-115, filed 3/25/71; § XIII, filed 10/11/65; § XIII, filed 2/12/65.]

WAC 296-04-125 Rule change-procedures and forms. The procedure and form for petitions requesting the making, amendment, or repeal of a rule are set forth in WAC 296-08-540, 296-08-550, 296-08-560, 296-08-570 and 296-08-590(2). The procedure and form for requests for declaratory rulings are set forth in WAC 296-08-580, 296-08-590(1). Such petitions and requests shall be addressed to the Washington state apprenticeship and training council and mailed to the supervisor of apprenticeship and training at his address hereinbefore in WAC 296-04-045 stated.

[Order 71-3, § 296-04-125, filed 3/25/71.]

WAC 296-04-160 Apprenticeship committees. (1) Apprenticeship committees shall be appointed in accordance with the provisions of RCW 49.04.040. Such committees shall have the duties prescribed by statute, these rules and the approved standards under which they operate. Committees shall function, administrate or relinquish authority only with the consent of the council. On any petition addressed to the council or the supervisor, only the signature of the elected chairman and secretary of the committee shall be accepted unless the apprenticeship committee has petitioned the council to recognize and accept the signature of another person. Such a petition must be signed by a quorum of the members of the petitioning apprenticeship committee.

(2) Committees approved by the council shall offer training opportunities on an equal basis to all employers and apprentices including all rights, appeals, and services available in the existing apprenticeship program. If an existing committee refuses to provide access to apprenticeship and training opportunities to all employers, the council shall take action as necessary to remove all restrictions to access. Council action may include, but is not limited to, the decertification of the existing committee and recognition of a new committee in order to carry out the intent of chapter 49.04 RCW and the rules adopted under its authority.

(3) Apprenticeship committees shall be composed of no less than four members nor shall the committee be composed of more than twelve members. Exceptions may be granted by the council.

(4) It is the council's view that joint apprenticeship and training committees are not state agencies but rather only quasi-public entities performing services jointly for management and labor by assistance to the apprenticeship program.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-160, filed 3/21/95, effective 4/21/95. Statutory Authority: RCW 49.04.010 and 49.04.040. 90-21-118, § 296-04-160, filed 10/22/90, effective 11/22/90. Statutory Authority: RCW 49.04.010. 78-12-022 (Order 78-21), § 296-04-160, filed 11/14/78; Order 76-4, § 296-04-160, filed 2/20/76; Order 72-8, § 296-04-160, filed 6/8/72; Order 71-3, § 296-04-160, filed 3/25/71; § XVI, filed 10/11/65; § XVI, filed 2/12/65; § X A, filed 3/23/60.]

WAC 296-04-165 Union waiver. Under a program proposed for registration by an employer or employers' association, and where the standards, collective bargaining agreement or other instrument, provides for participation by a union in any manner in the operation of the substantive matters of the apprenticeship program, and such participation is exercised, written acknowledgement of union agreement or "no objection" to the registration is required. Where no such participation is evidenced and practiced, the employer or employers' association shall simultaneously furnish to the union, if any, which is the collective bargaining agent of the employees to be trained, a copy of its application for registration and of the apprenticeship program. The registration agency shall provide a reasonable time period of not less than 30 days nor more than 60 days for receipt of union comments, if any, before final action on the application for registration and/or approval.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-165, filed 3/21/95, effective 4/21/95; 78-12-022 (Order 78-21), § 296-04-165, filed 11/14/78.]

WAC 296-04-260 Merit awards. The supervisor, with the approval of the council, may issue awards for meritorious service to persons who have given at least five years of continuous service to the apprenticeship and training program of this state.

[Order 71-3, § 296-04-260, filed 3/25/71; § XXV, filed 10/11/65; § XXV, filed 2/12/65.]

WAC 296-04-270 Apprenticeship agreements—Types—Standards—Registration, review, cancellation, reregistration—Certificate of completion. (1) The following apprenticeship agreements shall be recognized pursuant to RCW 49.04.060:

(a) A written agreement between an association of employers and an organization of employees describing the conditions of training for apprentices.

(b) A written statement of an employer or a written agreement between an employer and an employee organization describing the conditions of training apprentices. The former agreement shall be recognized only if there is no bona fide employee organization in the plant affected by the agreement.

(c) A written agreement between an employer and an individual apprentice describing the conditions of apprenticeship.

(d) Group-joint, or area joint program where there is a labor organization. A program jointly sponsored by a group of employers and a labor organization administered by a joint apprenticeship and training committee (JATC) equally composed from management and labor.

(e) Individual-joint, a program where there is a labor organization. A program jointly sponsored by an individual employer and a labor organization administered by a joint apprenticeship and training committee (JATC) composed equally from management and labor.

(f) Group nonjoint, or area group program where there is no labor organization. A program sponsored by a group of employers administered by an apprenticeship committee.

(g) Individual nonjoint, a program where there is no labor organization. A program sponsored and administered by an individual employer not jointly sponsored with a labor organization.

(h) Group waiver, a program with more than one firm (a group of employers) where either the employer group or the labor organization has voluntarily waived participation and has so notified the other party in writing.

(i) Individual waiver, a program involving an individual person, company, plant, firm, and a labor organization where management or labor has voluntarily waived participation and has so notified the other party in writing.

(j) Nonjoint and waivered committees shall be composed of representatives of which fifty percent shall by reason of education and experience be occupationally qualified in the specific occupation specified in the standards for which the committee is responsible.

(k) The council shall only recognize nonjoint and waivered standards for a specific occupation or directly related occupations. When multiple related occupations are approved on a single standard, each occupation shall be considered as an individual standard. Unrelated occupations shall be submitted under separate standards.

(2) Apprenticeship agreements shall conform to the following standards:

(a) Committee programs, plant programs, and on-the-job training programs must contain the provisions required by RCW 49.04.050 and, in addition, shall contain:

(i) Provision for nondiscrimination in the selection of apprentices in substantially the following form:

Each sponsor of an apprenticeship program shall include in its standards the following equal opportunity pledge: "The recruitment, selection, employment and training of apprentices during their apprenticeship shall be without discrimination because of race, color, religion, national origin, or sex. The sponsor will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required by the rules of the Washington state apprenticeship and training council and Title 29, Part 30 of the Code of Federal Regulations."

(ii) Provision that there shall be no discrimination on the basis of race, color, creed, sex, or national origin after selection during all phases of employment during apprenticeship.

(iii) Provision that adequate records of the selection process must be kept for a period of at least five years and will be made available to the council or its designated representative on request. Such records must include a brief summary of any interviews and the conclusions reached on each of the specific factors which are part of the total judgment concerning each applicant.

(iv) Provision for local committee rules and regulations consistent with these rules and the applicable apprenticeship agreement.

(b) Any proposed standards for apprenticeship must be consistent with any standards for apprenticeship already approved by the council for the industry, craft or trade in question to the end that there is general statewide uniformity of such standards in each industry, trade or craft. Proposed standards shall be considered consistent if they are equal to or exceed the average number of hours and do not exceed the maximum number of hours for such trade, craft, or occupation within this state. In addition, the course content and delivery method are similar to the extent that they are designed to achieve the same levels of skills as existing standards within the state for that industry, trade, or craft.

(c) Shall contain a statement of the progressively increasing scale of wages based on specified percentages of a specific wage which shall be submitted to the council and updated no less than annually.

(d) A sample apprenticeship agreement which the council approves is available on request from the supervisor.

(3) Registration, review, cancellation, reregistration.

(a) All individual agreements shall be registered with the supervisor and subject to his approval.

(b) The supervisor and his staff, in the performance of their field work, shall conduct a systematic review of all plant and committee programs and shall take appropriate action, including recommendation of cancellation, when they find that any program is not being operated according to these rules and regulations or according to its applicable standards.

(c) When any program is found to be operating in a manner inconsistent with or contrary to these rules and regulations or its established plant or committee program, the supervisor shall notify the offending committee, person, firm or agency of the violation. If the supervisor does not receive notice, within 60 days, of action taken to correct such violations, the supervisor may take whatever action he deems necessary, including recommendation of cancellation of the apprenticeship or training program and agreement to the council.

(d) If the supervisor deems it necessary to recommend cancellation of an apprenticeship or training program, he shall do so in writing to each council member, stating in detail the reasons for his recommendation. A copy of said recommendation shall be mailed to the last known address of each member of the committee administering said program, or to those persons responsible for said program, together with notice that the council shall consider the recommendation at its next regularly scheduled meeting more than 30 days subsequent to the date of the recommendation and that all interested persons may present evidence or testimony regarding said recommendation. The council shall decide the question before it upon majority vote of the members present

and voting and shall notify all interested parties of its decision, together with the reasons for it, in writing.

(e) The cancellation of any program or agreement shall automatically effect a cancellation of any agreement registered thereunder, provided that any organization or firm not responsible for the violations causing the cancellation may petition the council for approval of such cancelled agreement or program as a new program.

(f) Certificates of completion shall be issued at the request of the appropriate committee. An affidavit of the secretary, chair, or authorized official of the committee concerned shall accompany the request, which affidavit shall state that the apprentice has successfully completed the apprenticeship program of that committee, and that he/she has been an active, registered participant of that committee's program for at least six months.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-270, filed 3/21/95, effective 4/21/95; 93-04-100, § 296-04-270, filed 2/2/93, effective 3/5/93. Statutory Authority: RCW 49.04.010 and 49.04.050. 90-10-020, § 296-04-270, filed 4/23/90, effective 5/24/90. Statutory Authority: RCW 49.04.050. 87-01-046 (Order 86-43), § 296-04-270, filed 12/15/86. Statutory Authority: RCW 49.04.010. 80-03-004 (Order 80-2), § 296-04-270, filed 2/8/80; Order 76-4, § 296-04-270, filed 2/20/76; Order 71-3, § 296-04-270, filed 3/25/71; § XXVI, filed 10/11/65; § XXVI, filed 2/12/65.]

WAC 296-04-275 Reciprocity. Apprenticeship programs and standards of employers and unions in other than the building and construction industry, which jointly form a sponsoring entity on a multistate basis and are registered pursuant to all requirements of Title 29 Code of Federal Regulations, Part 29, as adopted February 15, 1977 by any recognized state apprenticeship agency/council or by the bureau of apprenticeship and training, U.S. Department of Labor, shall be accorded approval reciprocity by the Washington state apprenticeship and training council, if such reciprocity is requested by the sponsoring entity.

[Statutory Authority: RCW 49.04.010. 78-12-022 (Order 78-21), § 296-04-275, filed 11/14/78; 78-09-056 (Order 78-13), § 296-04-275, filed 8/22/78.]

WAC 296-04-280 On-the-job training programs. (1) Training programs may be set up in the same manner as apprenticeship programs, with any exceptions authorized by the council provided that no on-the-job training program shall be established or authorized where there is a parallel apprenticeship program in existence. A training program shall be any program which requires 2,000 or less hours of employment for completion. All of these rules shall apply to them as to apprenticeship agreements and programs, except that they will be approved by the supervisor subject to the review of the council.

(2) A pattern standard for an on-the-job training program is available from the supervisor on request.

[Statutory Authority: RCW 49.04.010. 93-04-100, § 296-04-280, filed 2/2/93, effective 3/5/93; Order 76-4, § 296-04-280, filed 2/20/76; Order 71-3, § 296-04-280, filed 3/25/71.]

WAC 296-04-295 Complaint review procedure. (1) Any controversy or difference that cannot be resolved to the satisfaction of the parties by the local committee or other organization administering the agreement may be submitted by any apprentice who has completed his or her probationary period to the apprenticeship division for resolution.

(a) The apprentice shall request the local committee or other organization to reconsider any action that is the basis for the complaint within 30 days of the action. The local committee or other organization shall, within 30 days, provide a written notification of its decision on the request for reconsideration to the apprentice and this notification shall be considered the final action of the committee. The apprentice shall submit a written complaint describing the controversy to the supervisor of the apprenticeship division within 30 days of the final action taken on the matter by the local committee or other organization.

(b) The written complaint shall set out the specific matter(s) complained of and the facts and circumstances relevant to the complaint. Any documents or correspondence relevant to the complaint shall be attached to the complaint. The apprentice shall send a copy of the complaint to the interested local committee or other organization.

(c) Any controversy that involves matters covered by a collective bargaining agreement are not subject to the complaint review procedure established by this rule.

(2) Upon receipt of a complaint from an apprentice, the supervisor of the apprenticeship division shall investigate the controversy.

(a) The supervisor shall have 30 working days within which to complete the investigation. During the investigation, the supervisor shall attempt to effect a settlement of the controversy between the parties. If the controversy is not settled during the investigation, the supervisor, at the conclusion of the investigation shall issue a written decision resolving the controversy.

(b) The apprentice and the local committee or other organization shall fully cooperate with the supervisor during the investigation by providing any information or documents requested by the supervisor.

(c) The supervisor may, in his or her discretion, delegate the investigation of a complaint by an apprentice to any employee of the apprenticeship division.

(3) If the apprentice, local committee or other organization is dissatisfied with the decision of the supervisor, the dissatisfied party may request the apprenticeship council to review the decision.

(a) The request shall be made to the council in writing within 30 days of the issuance of the supervisor's decision and shall specify the reasons that the review is requested. The party requesting review shall provide a copy of the request to the other parties to the controversy.

(b) The council shall conduct an informal hearing to consider the request for review of the supervisor's decision. The hearing shall be held in conjunction with the council's regular quarterly meeting unless special circumstances require a hearing at a different time.

(i) At the informal hearing, the council shall review the decision issued by the supervisor and all records of the investigation. The council may also accept testimony or documents from any person, including the supervisor and his or her staff, who has knowledge relating to the controversy.

(ii) Parties at the informal hearing may be represented by counsel and may, at the council's discretion, present argu-

ment concerning the controversy. The council shall not apply formal rules of evidence.

(iii) After the informal hearing, the council shall issue a written decision resolving the controversy within 30 days. The decision of the council may be to affirm the decision of the supervisor and in that case the decision of the supervisor becomes the decision of the council. All parties to the informal hearing shall be sent a copy of the council's decision. The chairman may sign the decision for the council.

(4) The investigation or review of any controversy under this rule by the supervisor or the council shall not suspend any action taken or decision made by the local committee or other organization pending the issuance of a decision resolving the matter.

[Statutory Authority: RCW 49.04.010. 80-03-004 (Order 80-2), § 296-04-295, filed 2/8/80; 79-09-003 (Order 79-13), § 296-04-295, filed 8/2/79.]

AFFIRMATIVE ACTION PLAN

WAC 296-04-300 Promulgation. WAC 296-04-300 through 296-04-480 of this chapter sets forth the affirmative action plan of the Washington state apprenticeship and training council and establishes the policies and procedures to promote equality of opportunity in apprenticeship programs approved by the Washington state apprenticeship and training council and are adopted in accordance with the provisions of Title 29, Part 30 of the Code of Federal Regulations as amended and promulgated by the United States Department of Labor. These policies and procedures apply to the recruitment and selection of apprentices, and to all conditions of employment and training during apprenticeship; and the procedures established provide for review of apprenticeship programs, for registering apprenticeship programs, for processing complaints, and for deregistering noncomplying apprenticeship programs. These policies and procedures also provide for continued or withdrawal of recognition of apprenticeship programs. The purpose of the following sections is to promote equality of opportunity in apprenticeship by prohibiting discrimination based on race, color, religion, national origin, or sex in apprenticeship programs, by requiring affirmative action to provide equal opportunity in such apprenticeship programs, and by coordinating these policies and procedures with other equal opportunity programs.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-300, filed 11/14/78; Order 77-3, § 296-04-300, filed 1/25/77; Order 71-13, § 296-04-300, filed 10/28/71.]

WAC 296-04-310 Authority. The authority for the implementation and adoption of these rules and policies and procedures hereinafter set forth affecting the approval and registration of an apprenticeship program is vested in the Washington state apprenticeship council in accordance with the provisions of RCW 49.04.010 through 49.04.910.

[Order 71-13, § 296-04-310, filed 10/28/71.]

WAC 296-04-330 Equal opportunity standards. Obligations of sponsors. Each sponsor of an apprenticeship program shall:

(1) Recruit, select, employ and train apprentices during their apprenticeship, without discrimination because of race, color, religion, national origin, or sex; and

(2) Uniformly apply rules and regulations concerning apprentices, including but not limited to, equality of wages, periodic advancement, promotion, assignment of work, job performance, rotation among all work processes of the trade, imposition of penalties or other disciplinary action, and all other aspects of the apprenticeship program administered by the program sponsors; and

(3) Take affirmative action to provide equal opportunity in apprenticeship, including adoption of an affirmative action plan as required by the provisions of WAC 296-04-340.

(4) **Equal opportunity pledge.** Each sponsor of an apprenticeship program shall include in its standards the following equal opportunity pledge: "The recruitment, selection, employment, and training of apprentices during their apprenticeship shall be without discrimination because of race, color, religion, national origin, or sex. The sponsor will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required by the rules of the Washington state apprenticeship and training council and Title 29, Part 30 of the Code of Federal Regulations."

(5) **Programs presently registered.** Each sponsor of a program registered with the council as of the effective date of these rules shall within 90 days following that effective date take the following action:

(a) Include in the standards of its apprenticeship program the equal opportunity pledge prescribed by subsection (4) of this section; and

(b) Adopt an affirmative action plan as required by WAC 296-04-340; and

(c) Adopt a selection procedure as required by WAC 296-04-350. A sponsor adopting a selection method under WAC 296-04-350 (2), (3) or (4), shall prepare and have available for submission upon request, copies of its amended standards, affirmative action plans, and selection procedure. A sponsor adopting a selection method under WAC 296-04-350(5) shall submit to the council copies of its standards, affirmative action plan, and selection procedure in accordance with the requirements of WAC 296-04-350 (5)(a).

(6) **Sponsors seeking new registration.** A sponsor of a program seeking new registration and approval of the council shall submit copies of its proposed standards, affirmative action plan, selection procedures, and such other information as may be required. The program shall be registered and approved [and] [if] such standards, affirmative action plan, and selection procedure meet the requirements of these rules.

(7) **Programs subject to approved equal employment opportunity programs.** A sponsor shall not be required to adopt an affirmative action plan under WAC 296-04-340, or a selection procedure under WAC 296-04-350, if it submits to the council satisfactory evidence that it is in compliance with an equal employment opportunity program providing for the selection of apprentices and for affirmative action in apprenticeship including goals and timetables for women and minorities which has been approved as meeting the requirements of Title VII of the Civil Rights Act of 1964, as amended, (42 U.S.C. 2000e, et seq.) and its implementing

regulations published in Title 29 of the Code of Federal Regulations, Chapter XIV, or Executive Order 11246, as amended, and its implementing regulations at Title 41 of the Code of Federal Regulations, Chapter 60: *Provided,* That programs approved, modified or renewed subsequent to the effective date of this amendment will qualify for this exception only if the goals and timetables for minorities and women for the selection of apprentices provided for in such programs are equal to or greater than the goals required under this part.

(8) **Program with fewer than five apprentices.** A sponsor of a program in which fewer than five apprentices are indentured shall not be required to adopt an affirmative action plan under WAC 296-04-340, or a selection procedure under WAC 296-04-350: *Provided,* That such program was not adopted to circumvent the requirements of this part.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-330, filed 11/14/78; Order 71-13, § 296-04-330, filed 10/28/71.]

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules, and deems ineffectual changes not filed by the agency in this manner. The bracketed material in the above section does not appear to conform to the statutory requirement.

WAC 296-04-340 Affirmative action plans. (1) Adoption of a sponsor's commitment to equal opportunity in recruitment, selection, employment, and training of apprentices shall include the adoption of a written affirmative action plan.

(2) Definition of affirmative action. Affirmative action is not mere passive nondiscrimination. It includes procedures, methods and programs for the identification, positive recruitment, training, and motivation of present and potential minority and female (minority and nonminority) apprentices including the establishment of goals and timetables. It is action which will equalize opportunity in apprenticeship so as to allow full utilization of the work potential of minorities and women. The overall result to be sought is equal opportunity in apprenticeship for all individuals participating in or seeking entrance to the labor force of this state.

(3) Outreach and positive recruitment. An acceptable affirmative action plan must also include adequate provisions for outreach and positive recruitment that would reasonably be expected to increase minority and female participation in apprenticeship by expanding the opportunity of minorities and women to become eligible for apprenticeship selection. In order to achieve these objectives, sponsors shall undertake activities such as those listed below. It is not contemplated that each sponsor necessarily will include all of the listed activities in its affirmative action program. The scope of the affirmative action program will depend on all the circumstances including the size and type of the program and its resources. However, the sponsor will be required to undertake a significant number of appropriate activities in order to enable it to meet its obligations under these rules. The affirmative action plan shall set forth the specific steps the sponsor intends to take in the areas listed below. Whenever special circumstances warrant, the council may provide from any funds made available to it for such purpose, such financial or other assistance it deems necessary to implement the requirements of this paragraph.

(a) Dissemination of information concerning the nature of apprenticeship, requirements for admission to apprenticeship, availability of apprenticeship opportunities, sources of apprenticeship applications, and the equal opportunity policy of the sponsor. For programs accepting applications only at specified intervals, such information shall be disseminated at least thirty days in advance of the earliest date for application at each interval. For programs customarily receiving applications throughout the year, such information shall be regularly disseminated, but not less than semiannually. Such information shall be given to the council, local schools, employment service offices, women's centers, outreach programs and community organizations which can effectively reach minorities and women and shall be published in newspapers which are circulated in the minority community and among women as well as the general areas in which the program sponsor operates.

(b) Participate in any workshops conducted by employment service agencies for the purpose of familiarizing school, employment service and other appropriate personnel with the apprenticeship system and current opportunities therein.

(c) Cooperation with the local school boards and vocational education systems to develop programs for preparing students to meet the standards and criteria required to qualify for entry into apprenticeship programs.

(d) Internal communication of the sponsor's equal opportunity policy in such a manner as to foster understanding, acceptance, and support among the sponsor's various officers, supervisors, employees, and members and to encourage such persons to take the necessary action to aid the sponsor in meeting its obligations under these rules.

(e) Engaging in such programs as outreach for the positive recruitment and preparation of potential applicants for apprenticeship; where appropriate and feasible, such programs shall provide for pretesting experience and training. If no programs are in existence, the sponsor shall seek to initiate these programs, or, when available, to obtain financial assistance from the council. In initiating and conducting these programs, the sponsor may be required to work with other sponsors and appropriate community organizations. The sponsor shall also initiate programs to prepare women and encourage women to enter traditionally male programs.

(f) To encourage the establishment and utilization of programs of preapprenticeship, preparatory trade training, or others designed to afford related work experience or to prepare candidates for apprenticeship, a sponsor shall make appropriate provision in its affirmative action plan to assure that those who complete such programs are afforded full and equal opportunity for admission into the apprenticeship program.

(g) Utilization of journeymen to assist in the implementation of the sponsor's affirmative action program.

(h) Granting advance standing or credit on the basis of previously acquired experience, training, skills, or aptitude for all applicants equally.

(i) Admitting to apprenticeship persons whose age exceeds the maximum age for admission to the program, where such action is necessary to assist the sponsor in achieving its affirmative action obligations.

(j) Appropriate action as to ensure that the recruitment, selection, employment, and training of apprentices during apprenticeship, shall be without discrimination because of race, color, religion, national origin, or sex; such as: General publication of apprenticeship opportunities and advantages in advertisements, industry reports, articles, etc.; use of present minority and female apprentices and journeymen as recruiters; career counseling; periodic auditing of affirmative action programs and activities; and development of reasonable procedures between the sponsor and the employers of apprentices to ensure that equal employment opportunity is being granted including reporting systems, on site reviews, briefing sessions, etc. The affirmative action programs shall set forth the specific steps the sponsors intend to take in the above areas under this subsection (3). Whenever special circumstances warrant, the council may provide such financial or other assistance from funds available to it for that purpose, as it deems necessary to implement the above requirements.

(4) Goals and timetables.

(a) A sponsor adopting a selection method under WAC 296-04-350 (2) or (3), which determines on the basis of analysis described in subdivision (e) that it has deficiencies in terms of underutilization of minorities and/or women (minority and nonminority) in the craft or crafts represented by the program shall include in its affirmative action plan percentage goals and timetables for the admission of minority and/or female (minority and nonminority) applicants into the eligibility pool.

(b) A sponsor adopting a selection method under WAC 296-04-350 (4) or (5), which determines on the basis of the analysis described in subdivision (e) that it has deficiencies in terms of the underutilization of the minorities and/or women in the craft or crafts represented by the program shall include in its affirmative action plan percentage goals and timetables for the selection of minority and female (minority and nonminority) applicants for the apprenticeship program.

(c) "Underutilization" as used in this subsection refers to the situation where there are fewer minorities and/or women (minority and nonminority) in the particular craft or crafts represented by the program than would reasonably be expected in view of an analysis of the specific factors in subdivision (e) of this section. Where, on the basis of the analysis, the sponsor determines that it has no deficiencies, no goals and timetables need be established. However, where no goals and timetables are established, the affirmative action plan shall include a detailed explanation why no goals and timetables have been established.

(d) Where the sponsor fails to submit goals and timetables as part of its affirmative action plan or submits goals or timetables which are unacceptable, and the council determines that the sponsor has deficiencies in terms of underutilization of minorities or women (minority and nonminority) within the meaning of this section, the council shall establish goals and timetables applicable to the sponsor for the admission of minority and female (minority and nonminority) applicants into the eligibility pool for selection of apprentices, as appropriate. The sponsor shall make good faith efforts to obtain these goals and timetables in accordance with the requirements of this section.

(e) Analysis to determine if deficiencies exist. The sponsor's determination as to whether goals and timetables shall be established shall be based on an analysis of at least the following factors, which analysis shall be set forth in writing as part of the affirmative action plan.

(i) The percentage of the working age minority and female (minority and nonminority) population in the program sponsor's labor market area;

(ii) The percentage of the minority and female (minority and nonminority) labor force in the program sponsor's labor market area;

(iii) The percentage of the minority and female (minority and nonminority) participation as apprentices in the particular craft as compared with the percentage of minorities and women (minority and nonminority) in the labor force in the program sponsor's labor market area;

(iv) The percentage of minority and female (minority and nonminority) participation as journeymen employed by the employer or employers participating in the program as compared with the percentage of minorities and women (minority and nonminority) in the sponsor's labor market area and the extent to which the sponsor should be expected to correct any deficiencies through the achievement of goals and timetables for the selection of apprentices;

(v) The general availability of minorities and women (minority and nonminority) with present or potential capacity for apprenticeship in the program sponsor's labor market area.

In calculating the percentage of minority and female labor force or populations in the program sponsor's labor market in (e)(i) through (v) of this subsection or in calculating any other factors which are included in the analysis set forth in this section, the numerator shall be the number of women or minorities in that particular classification who are in the labor force or population; the denominator shall be the total labor force or population.

(f) Establishment and attainment of goals and timetables. The goals and timetables shall be established on the basis of the sponsor's analysis of its underutilization of minorities and women and its entire affirmative action program. A single goal for minorities and a separate single goal for women is acceptable unless a particular group is employed in a substantially disparate manner in which case separate goals shall be established for such group. Such separate goals would be required, for example, if a specific minority group of women were underutilized even though the sponsor had achieved its standards for women generally. In establishing the goals, the sponsor should consider the results which could be reasonably expected from its good faith efforts to make its overall affirmative action program work. Compliance with these requirements shall be determined by whether the sponsor has met its goals within its timetable, or failing that, whether it has made good faith efforts to meet its goals and timetables. Its "good faith efforts" shall be judged by whether it is following its affirmative action program and attempting to make it work, including evaluation and changes in its program where necessary to attain the maximum effectiveness toward the attainment of its goals. However, in order to deal fairly with program sponsors, and with women who are entitled to protection under the goals and timetables requirements, dur-

ing the first twelve months after the effective date of these regulations, the program sponsor would generally be expected to set a goal for women for the entering year class at a rate which is not less than fifty percent of the proportion women are of the workforce in the program sponsor's labor market area and set a percentage goal for women in each class beyond the entering class which is not less than the participation rate of women currently in the preceding class. At the end of the first twelve months after the effective date of these regulations, sponsors are expected to make appropriate adjustments in goal levels. See WAC 296-04-370(2).

(g) Data and information. The supervisor shall make available to program sponsors data and information on minority and female (minority and nonminority) labor force characteristics provided by the employment security department or the office of financial management for each standard metropolitan statistical area, and for other special areas as appropriate.

The data to be used in calculating percentages of apprentices and journeymen as required by (e)(ii) and (iii) of this subsection shall be derived from records maintained by apprenticeship committees.

[Statutory Authority: RCW 49.04.010 and 49.04.100 - 49.04.130. 90-10-019, § 296-04-340, filed 4/23/90, effective 5/24/90. Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-340, filed 11/14/78; Order 77-3, § 296-04-340, filed 1/25/77; Order 71-13, § 296-04-340, filed 10/28/71.]

WAC 296-04-350 Selection of apprentices. (1) **Obligations of sponsors.** In addition to development of a written affirmative action plan to ensure that minorities and women have an equal opportunity for selection as apprentices and otherwise ensure the prompt achievement of full and equal opportunity in apprenticeship, each sponsor shall further provide in its affirmative action program that the selection of apprentices shall be made under one of the methods specified in the following subsections (2) through (5) of this section.

(2) **Selection methods.** The sponsor shall adopt one of the following methods of selecting apprentices:

(a) Selection on basis of rank from pool of eligible applicants. A sponsor may select apprentices from a pool of eligible applicants created in accordance with the requirements of subdivision (c) of this subsection on the basis of the rank order of scores of applicants on one or more qualification standards where there is a significant statistical relationship between rank order of scores and performance in the apprenticeship program. In demonstrating such relationship, the sponsor shall follow the procedure set forth in guidelines on employee selection procedures published at 41 CFR Part 60-3.

(b) Requirements. The sponsor adopting this method of selecting apprentices shall meet the requirements of subdivisions (c) through (g) of this subsection.

(c) Creation of pool of eligibles. A pool of eligibles shall be created from applicants who meet the qualifications of minimum legal working age and the sponsor's minimum physical requirements; or from applicants who meet qualification standards in addition to minimum legal working age: *Provided,* That any additional qualification standards conform with the following requirements:

(i) Qualification standards. The qualification standards and the procedures for determining such qualification standards shall be stated in detail and shall provide criteria for the specific factors and attributes to be considered in evaluating applicants for admission to the pool. The score required under each qualification standard for admission to the pool shall also be specified. All qualification standards, and the score required on any standard for admission to the pool, shall be directly related to job performance, as shown by a significant statistical relationship between the score required for admission to the pool, and performance in the apprenticeship program. In demonstrating such relationship, the sponsor shall follow the procedures set forth in 41 CFR Part 60-3. Qualifications shall be considered as separately required so that the failure of an applicant to obtain the specified score under a single qualification standard shall disqualify the applicant from admission to the pool.

(ii) Aptitude tests. Any qualification standard for admission to the pool consisting of aptitude test scores shall be directly related to job performance, as shown by significant statistical relationships between the score on the aptitude tests required for admission to the pool, and performance in the apprenticeship program. In determining such relationship, the sponsor shall follow the procedures set forth in 41 CFR Part 60-3. The requirements of this item (ii) shall also be applicable to aptitude tests utilized by a program sponsor which are administered by a state employment agency, or any other person, agency or organization engaged in the selection or evaluation of personnel. A national test developed and administered by a national joint apprenticeship committee will not be approved by the United States Department of Labor unless such test meets the requirements of this subdivision.

(iii) Educational attainments. All educational attainments or achievements as qualifications for admission to the pool shall be directly related to job performance, as shown by a significant statistical relationship between the score required for admission to the pool and performance in the apprenticeship program. In demonstrating such relationship the sponsor shall meet the requirements of 41 CFR Part 60-3. School records or a passing grade on the general educational development tests recognized by the state or local public instruction authority shall be evidence of educational achievement. Education requirements shall be applied uniformly to all applicants.

(d) Oral interviews. Oral interviews shall not be used as a qualification standard for admission into an eligibility pool. However, once an applicant is placed in the eligibility pool, and prior to selection for apprenticeship from the pool, he or she may be required to submit to an oral interview. Oral interviews shall be limited to such objective questions as may be required to determine the fitness of applicants to enter the apprenticeship program, but shall not include questions relating to qualifications previously determined in gaining entrance to the eligibility pool. When an oral interview is used, each interviewer shall record the questions and the general nature of the applicant's answers, and shall prepare a summary of any conclusions. Each applicant rejected from the pool of eligibles on the basis of an oral interview shall be

given a written statement of such rejection, the reasons therefor, and the appeal rights available to the applicant.

(e) Notification of applicants. All applicants who meet the requirements for admission shall be notified and placed in the eligibility pool. The program sponsors shall give each rejected applicant who is not selected for the pool or the program notice of his or her rejection, including the reason for the rejection, the requirements for admission to the pool of [the] eligibles, and the appeal rights available to the applicant.

(f) Goals and timetables. The sponsor shall establish, where required by WAC 296-04-340(4), percentage goals and timetables for the admission of minorities and women (minority and nonminority) into the pool of eligibles in accordance with the provisions of WAC 296-04-340 (4)(a) through (f).

(g) Compliance. A sponsor shall be deemed to be in compliance with its commitments under subdivision (f) of this subsection (2) if it meets its goals or timetables or if it makes a good faith effort to meet these goals and timetables. In the event of the failure of the sponsor to meet its goals and timetables, it shall be given an opportunity to demonstrate that it has made every "good faith effort" to meet its commitments (see WAC 296-04-340 (4)(f)). All the actions for the sponsor shall be reviewed and evaluated in determining whether such good faith efforts have been made.

(3) **Random selection from pool of eligible applicants.**

(a) Selection. A sponsor may select apprentices from a pool of eligible applicants on a random basis. The method of random selection is subject to approval by the council. Supervision of the random selection process shall be by an impartial person or persons selected by the sponsor, but not associated with the administration of the apprenticeship program. The time and place of the selection, and the number of apprentices to be selected, shall be announced. The place of the selection shall be open to all applicants and the public. The names of apprentices drawn by this method shall be posted immediately following the selection at the program sponsor's place of business.

(b) Requirements. The sponsor adopting this method of selecting apprentices shall meet the requirements of subdivisions (c) through (e) of subsection (2) of this section relating to the creation of a pool of eligibles, oral interviews and notification of applicants.

(c) Goals and timetables. The sponsor shall establish where required by WAC 296-04-340(4), percentage goals and timetables for the admission of minorities and women (minority and nonminority) into the pool of eligibles in accordance with the provisions of WAC 296-04-340 (4)(d) through (f).

(d) Compliance. Determinations as to the sponsor's compliance with its obligations under these rules shall be in accordance with the provisions of subdivision (g) of subsection (2) of this section.

(4) **Selection from pool of current employees.**

(a) Selection. A sponsor may select apprentices from an eligibility pool of the workers already employed by the program sponsor in a manner prescribed by a collective bargaining agreement where such exists, or by the sponsor's established promotion policy. The sponsor adopting this method of selecting apprentices shall establish goals and timetables for the selection of minority and female apprentices, unless the sponsor concludes, in accordance with the provisions of WAC 296-04-340 (4)(d) through (f), that it does not have deficiencies in terms of underutilization of minorities and/or women (minority and nonminority) in the apprenticeship of journeymen crafts represented by the program.

(b) Compliance. The determination as to the sponsor's compliance with its obligations under these regulations shall be in accordance with the provisions of subdivision (g) of subsection (2) of this section.

(5) **Alternative selection methods.** Selection. The sponsor may select apprentices by means of any other method, including its present selection method: *Provided,* That the sponsor meets the following requirements:

(a) Selection method and goals and timetables. Within ninety days of the effective date of these rules, the sponsor shall submit to the council, through its supervisor, the revised selection method it proposes to use along with the rest of its written affirmative action program including, where required by WAC 296-04-340(4), its percentage goals and timetables for the selection of minority and/or female (minority and nonminority) applicants for apprenticeship and its written analysis, upon which such goals and timetables, or lack thereof, are based. The establishment of goals and timetables shall be in accordance with the provisions of WAC 296-04-340 (4)(d) through (f). The sponsor may not implement any such [selection] method [until the council has approved the selection method] as meeting the requirements of subdivision (b) of this subsection (5) and has approved the remainder of its affirmative action program including its goals and timetables. If the council fails to act upon the selection method and the affirmative action program within thirty days of its submission, the sponsor then may implement the selection method until acted upon by the council.

(b) Qualification standards. Apprentices shall be selected on the basis of objective and specific qualification standards. Examples of such standards are fair aptitude tests, school diplomas or equivalent, occupationally essential health requirements, fair interviews, school grades, and previous work experience. Where interviews are used, adequate records shall be kept including a brief summary of each interview and the conclusions on each of the specific factors, e.g., motivation, ambition, and willingness to accept direction which are part of the total judgment. In applying any such standards, the sponsor shall meet the requirements of 41 CFR Part 60-3.

(6) **Compliance.** Determination as to the sponsor's compliance with its obligations under these regulations shall be in accordance with the provisions of subdivision (g) of subsection (2) of this section. Where a sponsor, despite its good faith efforts, fails to meet its goals and timetables within a reasonable period of time, the sponsor may be required to make appropriate changes in its affirmative action program to the extent necessary to obtain maximum effectiveness toward the attainment of its goals. The sponsor may also be required to develop and adopt an alternative selection method, including a method prescribed by the council where it is determined that the failure of the sponsor to meet its goals is attributable in substantial part to the selection method. Where the sponsor's failure to meet its goals is attributable in substantial part

to its use of the qualification standard which has adversely affected the opportunities of minorities and/or women (minority and nonminority) for apprenticeship, the sponsor may be required to demonstrate that such qualification standard is directly related to job performance, in accordance with the provisions of subsection (2), subdivision (c), item (i), of this section.

[Statutory Authority: RCW 49.04.010 and 49.04.100 - 49.04.130. 90-10-019, § 296-04-350, filed 4/23/90, effective 5/24/90. Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-350, filed 11/14/78; Order 71-13, § 296-04-350, filed 10/28/71.]

WAC 296-04-351 Employer's responsibility. In affirmative action programs under WAC 296-04-350(5) alternate selection methods where the employer does the selecting, the employer shall sign an agreement assuming responsibility for adherence to the council's affirmative action plan contained in these regulations and 29 CFR Part 30.

[Order 76-4, § 296-04-351, filed 2/20/76.]

WAC 296-04-360 Existing lists of eligibles and public notice. A sponsor adopting a selection method under WAC 296-04-350 (2) or (3), and a sponsor adopting a selection method under WAC 296-04-350(5), who determines that there are [few] [fewer] minorities and/or women (minority and nonminority) on its existing list of eligibles than would be reasonably expected in view of the analysis described in WAC 296-04-340 (4)(e), shall discard all existing eligibility lists upon adoption of the selection methods required by these rules. New eligibility pools shall be established and lists of eligibility pools shall be posted at the sponsor's place of business. Sponsors shall establish a reasonable period of not less than two weeks for accepting applications for admission to the apprenticeship program. There shall be at least 30 days of public notice in advance of the earliest date for application for admission to the apprenticeship program (see WAC 296-04-340(3) on affirmative action with respect to dissemination of information). Applicants who have been placed in a pool of eligibles shall be retained on lists of eligibles subject to selection for a period of two years. Applicants may be removed from the list at an earlier date by their request or following their failure to respond to [an] apprentice job opportunity given by certified mail, return receipt requested. Applicants who have been accepted in the program shall be afforded a reasonable period of time in light of the customs and practices of the industry for reporting for work. All applicants shall be treated equally in determining such period of time. It shall be the responsibility of the applicant to keep the sponsor informed of his or her current mailing address. Upon request, a sponsor may restore to the list of eligibles applicants who have been removed from the list or who have failed to respond to an apprenticeship job opportunity.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-360, filed 11/14/78; Order 71-13, § 296-04-360, filed 10/28/71.]

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules, and deems ineffectual changes not filed by the agency in this manner. The bracketed material in the above section does not appear to conform to the statutory requirement.

WAC 296-04-370 Records. Obligations of sponsors. (1) Each sponsor shall keep adequate records including a summary of the qualifications of each applicant, the basis for evaluation and for selection or rejection of each applicant, the records pertaining to the interviews of applicants, the original application for each applicant, information relative to the operation of the apprenticeship program, including but not limited to job assignment, promotion, demotion, layoff, or termination, rates of pay, or other forms of compensation or conditions of work, and separately, hours of training provided, and any other records pertinent to the determination of compliance with these regulations as may be required by the council. The records pertaining to the individual applicants, selected or rejected, shall be maintained in such manner as to permit identification of minority and female (minority and nonminority) participants.

(2) **Affirmative action plans.** Each sponsor must retain a statement of its affirmative action plan required by WAC 296-04-340 for the prompt achievement of full and equal opportunity in apprenticeship, including all data and analysis made pursuant to the requirements of WAC 296-04-340. Sponsors shall review their affirmative action plans annually and update them where necessary, including the goals and timetables.

Documentation necessary to establish a sponsor's good faith effort at implementation of its affirmative action plan also shall be maintained by each sponsor. The documentation shall include:

(a) Who was contacted;

(b) When the contacts were made;

(c) Where the contacts occurred;

(d) How the contacts were made; and

(e) The content of each contact.

(3) **Qualification standards.** Each sponsor must maintain evidence that its qualification standards have been validated in accordance with the requirements set forth in WAC 296-04-350(2).

(4) **Records of state apprenticeship council.** The records of the council shall be kept in the offices of the supervisor, which records shall include registration requirements, individual program standards, registration records, program compliance reviews and investigations, and any other records pertinent to the determination of compliance with these rules, as may be required by the United States Department of Labor, and shall report to the department as may be required.

(5) **Maintenance of records.** The records required by these rules (WAC 296-04-300 through 296-04-480) and any other information relevant to compliance with Part 30 of Title 29 of the Code of Federal Regulations shall be maintained for five years and made available upon request to the United States Department of Labor or other authorized representative.

[Statutory Authority: RCW 49.04.010 and 49.04.100 - 49.04.130. 90-10-019, § 296-04-370, filed 4/23/90, effective 5/24/90. Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-370, filed 11/14/78; Order 71-13, § 296-04-370, filed 10/28/71.]

WAC 296-04-380 Compliance reviews. (1) Conduct of compliance reviews. The supervisor shall regularly conduct systematic reviews of the apprenticeship programs in order to determine the extent to which sponsors are complying with these rules and will also conduct compliance reviews when

circumstances, including a receipt of complaints not referred to a private review body, pursuant to WAC 296-04-400 (2)(a), so warrant, and take appropriate action regarding programs which are not in compliance with the requirements of these rules. Compliance reviews will consist of comprehensive analysis and evaluations of each aspect of the apprenticeship program, including on-site investigations and audits.

(2) **Reregistration.** Sponsors seeking reregistration shall be subject to a compliance review as described in subsection (1) of this section by the supervisor as part of the reregistration process.

(3) **New registrations.** Sponsors seeking new registrations shall be subject to a compliance review as described in subsection (1) of this section by the supervisor as part of the registration process.

(4) **Voluntary compliance.** Where the compliance review indicates that the sponsor is not operating in accordance with these rules, the supervisor shall notify the sponsor in writing of the results of the review and make a reasonable effort to secure voluntary compliance on the part of the program sponsor within a reasonable time before undertaking sanctions under WAC 296-04-420. In the case of sponsors seeking new registrations, the supervisor will provide appropriate recommendations to the sponsor to enable it to achieve compliance for registration purposes.

[Order 71-13, § 296-04-380, filed 10/28/71.]

WAC 296-04-390 Noncompliance with federal and state equal opportunity requirements. A pattern or practice of noncompliance by a sponsor (or where the sponsor is a joint apprenticeship committee, by one of the parties represented on each committee) with federal or state laws or regulations requiring equal opportunity may be grounds for the imposition of sanctions in accordance with WAC 296-04-420, if such noncompliance is related to the equal employment opportunity of apprentices and/or graduates of such an apprenticeship program under these rules. The sponsor shall take affirmative steps to assist and cooperate with employers and unions in fulfilling their equal employment opportunity obligations.

[Order 71-13, § 296-04-390, filed 10/28/71.]

WAC 296-04-400 Complaint procedure. (1) **Filing.**

(a) Any apprentice or applicant for apprenticeship who believes that he or she has been discriminated against on the basis of race, color, religion, national origin, or sex with regard to apprenticeship or that the equal opportunity standards with respect to his or her selection have not been followed in the operation of an apprenticeship program may, personally or through an authorized representative, file a complaint with the council, or, at the apprentice's or applicant's election, with a private review body established pursuant to subdivision (c) of this subsection (1). The complaint shall be in writing and shall be signed by the complainant. It must include the name, address, and telephone number of the person allegedly discriminated against, the program sponsor involved, and a brief description of the circumstances of the failure to apply the equal opportunity standards provided for in these rules.

(b) The complaint must be filed not later than 180 days from the date of the alleged discrimination or specified failure to follow the equal opportunity standards; and, in the case of complaints filed directly with review bodies designated by program sponsors to review such complaints, any referral of such complaint by the complainant to the council must occur within the time limitation stated above or 30 days from the final decision of such review body, whichever is later. The time may be extended by the council for good cause shown.

(c) Sponsors are encouraged to establish fair, speedy, and effective procedures for a review body to consider complaints of failure to follow the equal opportunity standards. A private review body established by the program sponsor for this purpose should number three or more responsible persons from the community serving in this capacity without compensation. Members of the review body should not be directly associated with the administration of an apprenticeship program. Sponsors may join together in establishing a review body to serve the needs of programs within the community.

(2) **Processing of complaints.**

(a) When the sponsor has designated a review body for reviewing complaints, the council, unless the complainant has indicated otherwise or unless the council has determined that the review body will not effectively enforce the equal opportunity standards, the supervisor, upon receiving a complaint, shall refer the complaint to the review body.

(b) The supervisor shall, within 30 days following the referral of the complaint to the review body, obtain the reports from the complainant and the review body as to the disposition of the complaint. If the complaint has been satisfactorily adjusted and there is no other indication of failure to apply equal opportunity standards, the case shall be closed and the parties appropriately informed.

(c) When a complaint has not been resolved by the review body within 90 days or where, despite satisfactory resolution of the particular complaint by the review body, there is evidence that equal opportunity practices of the apprenticeship program are not in accordance with these rules, the council may conduct such compliance review as found necessary, and will take all necessary steps to resolve the complaint.

(3) Where no review body exists, the council may conduct such compliance review as found necessary in order to determine the facts of the complaint, and obtain such other information relating to compliance with these regulations as the circumstances warrant.

(4) Sponsors shall provide written notice of the above complaint procedure to all applicants for apprenticeship and all apprentices.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-400, filed 11/14/78; Order 71-13, § 296-04-400, filed 10/28/71.]

WAC 296-04-410 Adjustments in schedule for compliance review or complaint processing. If in the judgment of the council, a particular situation warrants and requires special processing, and either expedited or extended determination, it shall take the steps necessary to permit such determination, if it finds that no person or party affected by such determination will be prejudiced by such special processing.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-410, filed 11/14/78; Order 71-13, § 296-04-410, filed 10/28/71.]

WAC 296-04-420 Sanctions. (1) Where the supervisor, as a result of a compliance review or other reason, determines that there is reasonable cause to believe that an apprenticeship program is not operating in accordance with these rules and voluntary corrective action has not been taken by the program sponsor, the council shall institute proceedings to deregister the program or it shall refer the matter to the equal employment opportunity commission or to the attorney general with recommendations for the institution of a court action under Title VII of the Civil Rights Act of 1964, as amended, or to the attorney general for other court action as authorized by law.

(2) The deregistration proceedings shall be conducted according to the following procedures:

(a) The council shall notify the sponsor, in writing, that a determination of reasonable cause has been made under subsection (1) of this section and that the apprenticeship program may be deregistered unless, within 15 days of the receipt of the notice, the sponsor requests a hearing. The notification shall specify the facts on which the determination is based.

(b) If within 15 days of the receipt of the notice provided for in subdivision (a) of this subsection (2), the sponsor mails a request for hearing, the supervisor shall convene an appropriate hearing.

(c) The council shall make a final decision on the basis of the record before it, which shall consist of the compliance review file and other evidence presented. In its discretion, the council may allow the sponsor a reasonable time to achieve voluntary corrective action. If the council's decision is that the apprenticeship program is not operating in accordance with these rules, the apprenticeship program may be deregistered. In each case in which deregistration is ordered, the council shall make public notice of the order and shall notify the sponsor and the complainant, if any.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-420, filed 11/14/78; Order 76-4, § 296-04-420, filed 2/20/76; Order 71-13, § 296-04-420, filed 10/28/71.]

WAC 296-04-430 Reinstatement of program registration. Any apprenticeship program deregistered pursuant to these rules may be reinstated upon presentation of adequate evidence to the council that the apprenticeship program is operating in accordance with these rules.

[Order 71-13, § 296-04-430, filed 10/28/71.]

WAC 296-04-440 Adoption of consistent state plans. All apprenticeship programs registered with the council shall comply with the requirements of WAC 296-04-300 through 296-04-480 within 90 days after the effective date of these rules.

(1) The United States Department of Labor shall have authority to conduct compliance reviews to determine whether the Washington state affirmative action plan or any state apprenticeship program registered with the council is being administered or operated in accordance with the provisions of Title 29, Part 30 of the Code of Federal Regulations.

(2) It shall be the responsibility of the council to take the necessary action to bring a noncomplying program into compliance with these rules. In the event the council fails to fulfill this responsibility, the secretary of the United States Department of Labor may withdraw the recognition for federal purposes of any or all state apprenticeship programs, in accordance with the procedures for deregistration of programs registered by the department, or refer the matter to the attorney general of the United States with a recommendation for the institution by the attorney general of a court action under Title 7 of the Civil Rights Act of 1964.

(3) The council shall notify the United States Department of Labor of any state apprenticeship program disapproved and deregistered by it.

(4) Any state apprenticeship program disapproved and deregistered by the council for noncompliance with the requirements of these rules or Title 29, Part 30 of the Code of Federal Regulations may, within 15 days of the receipt of the notice of disapproval and deregistration, appeal to the United States Department of Labor to set aside the determination of the state apprenticeship and training council. The United States Department of Labor shall make its determination on the basis of the record. The United States Department of Labor may grant the state program sponsor, the state apprenticeship and training council, and the complainant, if any, the opportunity to present oral or written argument.

(5) **Withdrawal of recognition.** Whenever the United States Department of Labor determines that reasonable cause exists to believe that the council has not adopted or implemented a plan in accordance with the equal opportunity requirements of Title 29, Part 30 of the Code of Federal Regulations, it shall give notice to the council and to appropriate state sponsors of this determination, stating specifically wherein the state's plan failed to meet such requirements and the United States Department of Labor proposes to withdraw recognition for federal purposes from the state apprenticeship and training council unless within 15 days of the receipt of the notice, the council complies with the provisions of Title 29, Part 30, of the Code of Federal Regulations or mails a request for a hearing to the secretary of the United States Department of Labor.

(6) If within 15 days of the receipt of the notice provided for in subsection (5) of this section, the council neither complies with the provisions of Title 29, Part 30 of the Code of Federal Regulations, nor mails a request for a hearing, the secretary of the United States Department of Labor shall notify the council of the withdrawal of recognition.

(7) If within 15 days of the receipt of the notice provided for in subsection (5) of this section, the council mails a request for a hearing, the secretary of the United States Department of Labor shall proceed in accordance with Title 29, Section 30.16 of the Code of Federal Regulations.

(8) If a hearing is conducted in accordance with Title 29, Section 30.16 of the Code of Federal Regulations, the secretary of the United States Department of Labor upon receipt of the proposed findings and recommended decision of the hearing officer shall make a final decision whether the council has adopted or implemented a plan in accordance with equal opportunity requirements of Title 29 of Part 30 of the Code of Federal Regulations.

(9) If the secretary of the United States Department of Labor determines to withdraw from recognition, for federal purposes, from the state apprenticeship and training council, the secretary shall notify the council of this determination. The secretary shall also notify the state's sponsors that within 30 days of the receipt of the notice the United States Department of Labor shall cease to recognize, for federal purposes, each state apprenticeship program unless the state program sponsor requests registration with the United States Department of Labor. Such registration may be granted contingent upon finding that the state apprenticeship and training program is operating in accordance with the requirements of Title 29, Part 30 of the Code of Federal Regulations.

(10) If the secretary of the United States Department of Labor determines to withdraw recognition, for federal purposes, from the state apprenticeship [and training council], such recognition may be reinstated upon presentation of adequate evidence to the secretary of the United States Department of Labor that the council has adopted and implemented a plan carrying out the equal opportunity requirements of Title 29, Part 30 of the Code of Federal Regulations.

[Statutory Authority: RCW 49.04.010. 95-07-117, § 296-04-440, filed 3/21/95, effective 4/21/95; 78-12-021 (Order 78-20), § 296-04-440, filed 11/14/78; Order 71-13, § 296-04-440, filed 10/28/71.]

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules, and deems ineffectual changes not filed by the agency in this manner. The bracketed material in the above section does not appear to conform to the statutory requirement.

WAC 296-04-460 Intimidatory or retaliatory acts. Any intimidation, threat, coercion, or retaliation by or with the approval of any sponsor against any person for the purpose of interfering with any right or privilege secured by Title VII of the Civil Rights Act of 1964, as amended Executive Order 11246, as amended, or because he or she has made a complaint, testified, assisted or participated in any manner in any investigation proceeding, or hearing under these rules or Title 29, Part 30 of the Code of Federal Regulations, shall be considered noncompliance with the equal opportunity standards of these rules. The identity of complainants shall be kept confidential except to the extent necessary to carry out the purpose of these rules, including the conduct of any investigation, hearing, or judicial proceeding arising therefrom.

[Statutory Authority: RCW 49.04.010. 78-12-021 (Order 78-20), § 296-04-460, filed 11/14/78; Order 71-13, § 296-04-460, filed 10/28/71.]

WAC 296-04-470 Nondiscrimination. The commitments contained in the sponsor's affirmative action program are not intended and shall not be used to discriminate against any qualified applicant or apprentice on the basis of race, color, religion, national origin, or sex.

[Order 71-13, § 296-04-470, filed 10/28/71.]

WAC 296-04-480 Exemptions. Requests for exemption from these rules, or any part thereof, shall be made in writing to the supervisor, and shall contain a statement of reasons supporting the request. The exemptions may be granted for good cause by the council, or the secretary of the United States Department of Labor, and the council shall notify the United States Department of Labor of any such exemptions granted affecting a substantial number of employers and the reasons therefor. These variances are intended to apply only to WAC 296-04-300 through 296-04-480, the affirmative action plan of the state apprenticeship and training council.

[Order 76-4, § 296-04-480, filed 2/20/76; Order 71-13, § 296-04-480, filed 10/28/71.]

Chapter 296-06 WAC
PUBLIC RECORDS

WAC

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296-06-060 Substantive rules, general policy statements and interpretations of general applicability. [Order 73-12, § 296-06-060, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-070 Public records available. [Order 73-12, § 296-06-070, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-160 Procedure for copying public records. [Order 73-12, § 296-06-160, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-180 Department final opinions and orders not indexed. [Order 73-12, § 296-06-180, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-190 Instructions to staff in individual cases not indexed. [Order 73-12, § 296-06-190, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-200 Factual staff reports, etc., not indexed in individual cases. [Order 73-12, § 296-06-200, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-210 Correspondence and materials not indexed. [Order 73-12, § 296-06-210, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-220 Communications regarding public records. [Order 73-12, § 296-06-220, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-230 Adoption of form. [Order 73-12, § 296-06-230, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-240 Maintenance of index. [Order 73-11, § 296-06-240, filed 7/31/73.] Repealed by Order 76-27, filed 9/28/76.

296-06-990 Appendix A—Form—Department of labor and industries authorization to inspect or copy public records in which an individual has a right of privacy. [Order 73-12, Appendix A (codified as WAC 296-06-990), filed 7/31/73.] Repealed by 90-07-004, filed 3/9/90, effective 4/9/90. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-06-99001 Appendix B—Form—Request for public records under the provisions of chapter 1, Laws of 1973 (Initiative 276). [Order 73-12, Appendix B (codified as WAC 296-06-99001), filed 7/31/73.] Repealed by 90-07-004, filed 3/9/90, effective 4/9/90. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

WAC 296-06-010 Purpose. The department of labor and industries is a department of state government created by

RCW 43.17.010. It shall hereafter in this chapter be referred to as the "department." Where appropriate, "department" also refers to its staff and employees. The department promulgates this chapter to ensure compliance with the provisions of chapter 42.17 RCW, and in particular with sections of that act dealing with public records.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-010, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-010, filed 9/28/76; Order 73-12, § 296-06-010, filed 7/31/73.]

WAC 296-06-020 Description of organization of the department. (1) **Central organization.** The chief executive officer of the department is the director of labor and industries, hereinafter called "director." He or she is appointed by the governor with the consent of the senate to hold office at the pleasure of the governor. The department is organized in five divisions: Industrial insurance, industrial safety and health, industrial relations, apprenticeship, and building and construction safety inspection services. Each division is responsible to a deputy director or assistant director appointed by the director, although the industrial relations and apprenticeship divisions both report to one assistant director, whose appointment as the head of apprenticeship must be confirmed by the Washington state apprenticeship and training council, the members of which are also appointed by the director. This combined industrial relations and apprenticeship division, which includes a section to administer the Crime Victims Act, chapter 7.68 RCW, is known as the employment standards, apprenticeship and crime victims compensation division. Major policy decisions, rule-making, and the primary administrative functions of the department are carried out by the department's central organizations in Olympia.

(2) **Field organization.**

(a) The department maintains service locations, or major field offices, in seventeen cities other than Olympia. These service locations are grouped into six regions throughout the state, each of which is headed by a regional field service manager. In addition, certain programs operate field offices in other cities, but these are not complete service locations and are not required to keep complete policy manuals and other records available for public inspection.

(b) The department's rehabilitation center in Tukwila is headed by a superintendent.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-020, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-020, filed 9/28/76; Order 73-12, § 296-06-020, filed 7/31/73.]

WAC 296-06-030 Location of established places where information about the department may be obtained and department's public records inspected and copied. (1) **Olympia office.**

(a) The office of the director, the administrative office of the department, the main offices of the division of industrial insurance, and the office of the public records officer are in the General Administration Building, Olympia, Washington. The main offices of the other divisions are located at the following places: Industrial Safety and Health at 805 Plum Street S.E., Olympia, Washington; Apprenticeship, Employment Standards, and Crime Victims Compensation at 925 Plum Street S.E., Olympia, Washington; and Building and Construction Safety Inspection Services at 406 Legion Way S.E., Olympia, Washington. General information about the department and its divisions may be obtained at these places.

(2) **Field offices.**

(a) General information about the department may also be obtained at its service locations, or major field offices, at the following places:

Aberdeen, P.O. Box 66,
2700 Simpson Avenue, 98520-0013

Bellingham, P.O. Box 608,
2500 Elm Street, Suite F, 98227

Bremerton, 4841 Auto Center Way,
Suite 201, 98312-3440

Ephrata,
21 "C" Street, Southwest, 98823-1895

Everett, P.O. Box 67,
8625 Evergreen Way, Suite 250, 98206

Kelso,
711 Vine Street, 98626-2621

Kennewick, 500 North Morain,
Suite 1110, 99336

Mount Vernon,
1220 Memorial Highway, 98273-3262

Okanogan, P.O. Box 632,
1234 2nd Avenue South, 98840

Port Angeles,
1026 East First Street, Suite 1, 98362

Seattle,
300 West Harrison, 98119

Spokane,
TAF-C33, E. 3901 Main, 99220

Tacoma, Room 305, Public Service Building,
1305 Tacoma Avenue South, 98402-1988

Vancouver,
10401 N.E., 4th Plain, 98662

Walla Walla,
1815 Portland Avenue, Suite 2, 99362

Wenatchee,
123 Ohme Garden Road, 98801

Yakima,
1716 South 16th Avenue, 98902-5713

(b) Information about the extended care services offered injured workers, including physical therapy, special instruction, or vocational counseling, may be obtained from the department's Rehabilitation Center at 12806 Gateway Drive, Tukwila, Washington 98168.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-030, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-030, filed 9/28/76; Order 73-12, § 296-06-030, filed 7/31/73.]

WAC 296-06-040 Operations and procedures. The general course and method of channeling and determining the operations of the five divisions of the department and the nature of requirements of all formal and informal procedures connected therewith are summarized in the following subsections:

(1) **Industrial insurance.** This division administers medical care and payment of disability compensation for workers (or their dependents or survivors) sustaining job injuries or occupational diseases. Virtually all employers in the state must provide this industrial insurance coverage. The medical program of the state fund is funded through payments by employers and employees. The disability payments by the state fund are funded by premiums collected from employers. Descriptions of procedures to be followed by employers and employees are outlined in department publications entitled *Employers' Guide to Industrial Insurance* and *Workers' Guide to Industrial Insurance Benefits.*

In order to ensure that premium costs are equitably distributed, the division sets rates, determines classifications, rates individual firms based on claims experience, and periodically audits businesses to ensure accurate reporting and premium payment. Information about the records required during an industrial insurance audit can be found in the department publication *Preparing for Your Audit.*

The division also provides guidance to individual employers and groups of employers in controlling industrial insurance premiums through better claims management, return-to-work efforts, and effective safety programs, as well as through a financial incentive program known as retrospective rating. Further information is available in *Guide to Loss Control* and *Retrospective Rating.*

The department also certifies certain employers to become "self-insured, " which means that they are permitted to pay the legally defined industrial insurance benefits from their own funds. After the department certifies an employer as a self-insurer, it monitors all claims for injury benefits to make certain employees receive all rightful benefits. Descriptions of procedures to be followed by self-insured employers and their employees are outlined in *Employers' Guide to Self-insurance* and *Employees of Self-insured Businesses: Guide to Industrial Insurance Benefits.*

(2) **Industrial safety and health.** This division endeavors to prevent job injuries and illnesses by adopting and enforcing safety and health standards and by training employers and employees in safe working procedures. It administers the Washington Industrial Safety and Health Act (WISHA), operating under a state plan agreement with the federal Occupational Safety and Health Administration (OSHA). Employer and employee procedures and responsibilities are outlined in the department's publications, *A Guide to WISHA* and *Workplace Safety and Health Standards.* Information about voluntary consultations to improve workplace safety can be found in *Free. No Fault. No Hassle.,* and reporting workplace accidents to OSHA is outlined in *Injury and Illness Recordkeeping Requirements.*

(3) **Employment standards, apprenticeship and crime victims compensation.** The industrial relations, or employment standards, portion of this division administers the laws regulating wages, hours, and working conditions. It also enforces the minimum wage and family care laws and may assist in the collection of claims for unpaid wages. The industrial statistician determines the "prevailing rate of wage" on public works contracts and gathers information on wages and conditions of labor in the state, the consumer price index, standard family budgets, and manpower data on the labor force, employment, unemployment, and earnings. The section headed by the supervisor of employment standards administers the state employment standard designed to protect the health, safety, and welfare of the vast majority of employees. This section also issues minor work permits designed to protect young workers from exploitation and hazardous environments. More information on this subject can be found in *Youth in the Job Force: A Guide for Employers and Minor Workers.* Industrial relations agents investigate complaints of violations of employment standards, the minimum wage law and other wage laws; hold conferences between employees and employers; inspect records; make investigations to determine whether or not there have been violations of statutes, rules, or regulations; and suggest remedial actions.

The apprenticeship portion of this division, with the Washington state apprenticeship and training council, administers the apprenticeship training law for those persons desiring to become skilled in any one of various trades, crafts, and services. Local joint apprenticeship committees and program sponsors throughout the state are responsible for the actual training. This division acts as a liaison between theses committees and the council to make certain that the policies of the council are followed uniformly. The division also administers on-the-job training programs for those persons training in occupations other than occupations in which apprenticeship is an option.

The crime victims compensation section of this division pays medical and disability benefits to innocent victims (or to their dependents or survivors) who sustain injuries as a result of criminal acts. Benefit payments and procedures are outlined in the department's publication *Help for Crime Victims.* This section also certifies local prosecutor-based victim-witness units.

(4) **Building and construction safety inspection services.** This division administers programs designed to protect the life, health, and property of the general public. The various sections of this division issue licenses; promulgate rules and regulations; certify standards; and ensure compliance. The division conducts electrical inspections; registers electrical contractors; inspects and regulates the use of boilers and pressure vessels; inspects elevators; ensures compliance with the standards for the manufacture, lease, and sale of mobile homes and recreational vehicles; enforces the statutes, rules, and regulations governing factory-built structures; reviews electrical plans for health care facilities, plans for elevators and other conveyances, and plans for factory-assembled structures; tests and licenses plumbers and electricians; and registers general and specialty contractors.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-040, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-040, filed 9/28/76; Order 73-12, § 296-06-040, filed 7/31/73.]

WAC 296-06-050 Rules of procedure, substantive rules, general policy statements, and interpretations of general applicability. The department's rules of procedures, substantive rules of general applicability, and statements of general policy and interpretations of general applicability adopted as authorized by law are contained in Title 296 WAC.

[Order 76-27, § 296-06-050, filed 9/28/76; Order 73-12, § 296-06-050, filed 7/31/73.]

WAC 296-06-080 Authorization for release of information. Any person having a right of privacy in any public records of the department may authorize the inspection and copying of any such records by persons not otherwise so authorized by providing the department with a signed and dated written authorization describing the records covered by the authorization, and naming the person or persons authorized to inspect and copy. In the event that a department file contains information related to a disease or condition usually transmitted through sexual contact, or to testing for the presence of such a disease, the authorization to release information must be specific to sexually transmitted disease. A general authorization to release information is not adequate for the release of information related to sexually transmitted disease. The department shall make a record of all authorizations to release information. The authorizations shall be immediately attached to such files and records and shall become a part thereof. No such authorization shall be valid until submitted to the department.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-080, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-080, filed 9/28/76; Order 73-12, § 296-06-080, filed 7/31/73.]

WAC 296-06-090 Public records officer. The department's public records officer shall have charge of its public records. He or she shall have an office in the administrative office of the department at Olympia, Washington. He or she shall be responsible for the enforcement of the department's rules and regulations regarding the release of public records, and shall ensure compliance and cooperation of the department's staff with the public records disclosure requirements of chapter 42.17 RCW. He or she may choose such designees as may be necessary.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-090, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-090, filed 9/28/76; Order 73-12, § 296-06-090, filed 7/31/73.]

WAC 296-06-100 Office hours. The customary office hours of the department's Olympia offices and complete service locations, for the purpose of inspection and copying of any of the department's public records as provided by this chapter, shall be from 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding legal holidays. The only exceptions to this are the Okanogan and Walla Walla service locations, where the customary office hours shall be from 8:00 a.m. to noon and from 1:00 p.m. to 5:00 p.m.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-100, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-100, filed 9/28/76; Order 73-12, § 296-06-100, filed 7/31/73.]

WAC 296-06-110 Requests for public records. Persons requesting opportunity to copy or inspect the department's public records shall follow these procedures:

(1) Informal oral requests may be made to any of the department's full service locations or its office in Olympia.

(2) The department may require a person who has made an informal request to submit a formal written request.

(3) All formal requests shall be submitted by mail or personally to the deputy director or assistant director who heads the division or the section from which records are being requested. If such a request is misdirected, department staff shall forward it to the proper person.

(4) Each formal request shall include the following information:

(a) The name of the person or persons making the request;

(b) The time of day and calendar date on which the request is made;

(c) The nature of the request, including description of the requested records by title, subject matter, date, and other means of enabling the staff of the department to identify the requested records and make them available.

(d) A signed statement that the material will not be used for commercial purposes, in the event that a list of any type is included in the material being requested.

(5) The staff of the department shall assist any person making a request, whether formal or informal, in identifying the requested record or records but in the event the records cannot be identified, the department shall so advise the person making the request, and, in the case of formal requests, return the formal request for resubmission with additional description of the requested records.

(6) When any request is made to inspect and copy material in files and public records where a right of privacy is involved, or when such files and records are exempt by any other provision of law, inspection and copying shall not be permitted until the authorization described in WAC 296-06-080, together with a formal request, is presented to the department.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-110, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-110, filed 9/28/76; Order 73-12, § 296-06-110, filed 7/31/73.]

WAC 296-06-120 Copying and fees. Where copies of public records are requested, the department may charge a fee, to be set by the public records officer, for reimbursement of its actual costs incident to such a request. The fees the contractor registration section charges for copies of material from a contractor's file are set out in WAC 296-200-900. Whenever copies of public records are mailed to the person making the request, the department may require reimbursement for postage costs. All copies made at the request of persons desiring copies on copy equipment of the department will be made by department staff at times when the making of such copies will not unreasonably disrupt the operations of the department. If the records to be copied contain information that would violate any right of personal privacy, the department staff member shall prevent such information from appearing on any copy. Where the use of such equipment does not harm the public records or impede the normal work

of the department, those requesting copies of public records may use their own copying equipment and paper without charge, but in such event the department staff will supervise the copying at all times.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-120, filed 3/9/90, effective 4/9/90. Statutory Authority: RCW 18.27.040, 42.17.290 and 42.17.300. 82-18-026 (Order 82-26), § 296-06-120, filed 8/25/82; Order 76-27, § 296-06-120, filed 9/28/76; Order 73-12, § 296-06-120, filed 7/31/73.]

WAC 296-06-130 Denials of requests for public records. Only the public records officer or his or her designee shall have the power to deny a request for public records. Action on all such requests shall be prompt. In cases of informal requests, any member of the department's staff to whom an informal request is made may require the person making the request to submit a formal request or such staff member may bring the matter to the attention of the assistant director or his designee of the division from which records are being requested.

A decision on a formal request may be deferred for a reasonable time but immediate written notice of such deferral shall be given. All denials of requests for public records shall be in written form. All denials shall include a statement specifying the reason for the denial, a statement of any exemption authorizing withholding the record and a brief explanation of how the exemption applies to the record withheld, and the signature of the public records officer or his or her designee.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-130, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-130, filed 9/28/76; Order 73-12, § 296-06-130, filed 7/31/73.]

WAC 296-06-140 Review of denials of requests for inspection or copying of public records. After any request for inspection or copying is denied, any person may petition the department to review its denial. Any such petition for review must be made in writing to the public records officer prior to the end of the second business day following the denial. Such petition shall specifically refer to the denial and shall contain a brief statement or any reasons for reconsideration of the denial. Any such petition shall be immediately referred to the director or such persons as he or she may designate to review such petitions. The person reviewing such petitions shall review and reconsider the matter and either affirm or reverse the denial and communicate the decision to the person submitting the petition prior to the end of the second business day following the petition for review.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-140, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-140, filed 9/28/76; Order 73-12, § 296-06-140, filed 7/31/73.]

WAC 296-06-150 Protection of public records. The department shall protect public records from damage or disorganization and prevent excessive interference with other essential functions of the department. All inspections of public records shall be supervised by a department staff member. Any staff member supervising public records inspection may decline to act upon the requests of person who are intoxicated, violent, abusive, threatening, or disruptive, and may terminate the inspection or copying of public records by such persons. Any staff member supervising public records inspection will at all times ensure that those inspecting the department's public records do not tear, mutilate, mark, or otherwise harm such records and shall terminate the inspection or copying of public records by any person who has harmed such records. The staff member may limit inspection and copying to any extent necessary to prevent such activity from unreasonably disrupting the department's operations. Any staff member supervising public records inspection shall at all times provide full, prompt, courteous assistance to persons requesting the inspection and copying of the department's public records.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-150, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-150, filed 9/28/76; Order 73-12, § 296-06-150, filed 7/31/73.]

WAC 296-06-170 Records index. The department of labor and industries will not maintain a current index as provided for in RCW 42.17.260(2). As provided in RCW 42.17.260(3), this formal order is issued and published specifying the reasons why and the extent to which maintenance of such a current index would unduly burden or interfere with the operations of the department.

(1) It would both unduly burden and interfere with department operations to maintain a current index with the items specified in RCW 42.17.260 (2)(a), "final opinions, including concurring and dissenting opinions, as well as orders, made in the adjudication of cases, " as the department through its several divisions, sections, and other subdivisions routinely and regularly issues a great number of determinative orders. The division of industrial insurance alone is estimated to issue daily an average of about 1, 200 to 2,000 or more determinative orders. To index all such orders would either require more personnel and consequent expense or reduce the level of handling the essential functions and result in constantly greater periods of delay. Furthermore, all indexes maintained for departmental use by the various divisions, sections, and subdivisions of the department for internal use will remain available for public inspection and copying where permitted by law. A listing of such indexes and other available material shall be available for public inspection and copying.

Accordingly, and for the above reasons, it is ordered that the public records officer not establish an index relative to such subject matter.

(2) It would both unduly burden and interfere with the department's operations to maintain a current index with all "instructions to staff that affect a member of the public" within the scope of RCW 42.17.260 (2)(c). The inclusion of every such instruction to the staff would require either more personnel to index such instructions or a reduction in the department's capacity to carry out its other functions. The department will, however, continue to make available to the public for inspection or copying all instructions of a general nature to its staff that affects members of the public. A listing of all manuals containing such instructions shall be available for public inspection and copying.

Accordingly, and for the above reasons, it is ordered that the public records officer not establish an index relative to such subject matter.

(3) It would both unduly burden and interfere with department operations to maintain a current index of the materials within the scope of RCW 42.17.260 (2)(f), that is, all "correspondence, and materials, referred to therein, by and with the agency relating to any regulatory, supervisory or enforcement responsibilities of the agency, whereby the agency determines, or opines upon, or is asked to determine or opine upon, the rights of the state, the public, a subdivision of state government, or of any private party." The department daily, routinely, and regularly receives and sends a vast amount of material fitting this description. It would require either a greatly increased staff to index everything of that nature or a drastic reduction of the department's ability to carry out its other essential functions.

Accordingly, and for the above reasons, it is ordered that the public records officer not establish an index relative to such subject matter.

(4) The department did maintain a current index of the matters not covered by subsections (1) through (3) for nearly three years following the promulgation of its initial set of public records rules which was filed with the office of the code reviser on July 31, 1973. That index was virtually never asked for, nor was it used to any extent at all by the public. The department devoted many manhours that could have been put to accomplishment of its statutory duties to prepare and maintain that current index. The department finds it has been unduly burdensome to make the extensive effort necessary to maintain such a current index. Therefore, pursuant to RCW 42.17.260(3), the department issues and publishes this formal order specifying the reasons why and the extent to which compliance with any of the provisions of RCW 42.17.260(2) requiring the maintenance of a current index would unduly burden or interfere with its operations. The department herewith states that it will not hereafter maintain such a current index. The department further states that it will, however, make available for public inspection and copying all indexes and lists, not otherwise exempt, maintained for normal agency use. Guidance to public records available through the department and a general listing of such records and how they may be obtained will be provided by the public records officer upon request.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-07-004, § 296-06-170, filed 3/9/90, effective 4/9/90; Order 76-27, § 296-06-170, filed 9/28/76; Order 73-12, § 296-06-170, filed 7/31/73.]

Chapter 296-07 WAC

STATE ENVIRONMENTAL POLICY ACT GUIDELINES

WAC

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WAC 296-07-010 Use of abbreviations. In this chapter the department of labor and industries shall be referred to as the "department"; the director of labor and industries as the "director"; the State Environmental Policy Act, chapter 43.21C RCW, as "SEPA"; chapter 197-10 WAC effective January 16, 1976 as the "SEPA guidelines"; and environmental impact statement as "EIS."

[Order 76-16, § 296-07-010, filed 5/20/76.]

WAC 296-07-020 Purpose and scope. The rules contained in this chapter are to carry out the policy and procedures of SEPA and the SEPA guidelines, and shall govern the application of SEPA requirements to the department. These rules are adopted pursuant to the requirement of and authority provided by chapter 43.21C RCW and chapter 197-10 WAC.

From the effective date of this chapter the department in undertaking nonexempt actions shall conform to those relevant and applicable policies and procedures declared mandatory by the provisions of SEPA or the SEPA guidelines. Such pertinent and mandatory policy and procedures are hereby incorporated by reference and adopted as the policy and procedures of the department.

[Order 76-16, § 296-07-020, filed 5/20/76.]

WAC 296-07-030 Meaning of words and terms. The words and terms in this chapter and in all proceedings of the department in compliance with SEPA shall be deemed to conform to the mandatory definitions contained in the SEPA guidelines.

[Order 76-16, § 296-07-030, filed 5/20/76.]

WAC 296-07-040 Exemptions. All activities under programs administered by the department as of December 12, 1975 are hereby exempted, except the issuance of any license for the manufacture of explosives or the adoption or amendment by the department of any regulations incorporating general standards respecting the issuance of licenses authorizing the storage of explosives pursuant to chapter 70.74 RCW.

The adoption of any industrial health or safety regulations containing noise standards shall be considered a major action under this chapter. In addition all other exemptions provided by SEPA or the SEPA guidelines shall apply.

[Order 76-16, § 296-07-040, filed 5/20/76.]

WAC 296-07-050 Sufficiency of compliance with SEPA guidelines. Compliance with the applicable mandatory SEPA guidelines as supplemented by this chapter shall be deemed to constitute compliance with this chapter.

[Order 76-16, § 296-07-050, filed 5/20/76.]

WAC 296-07-060 Designation of responsible official. The assistant director of any department, division, or head of any independent department section with major responsibility for any non-exempt action shall be the responsible official for the purpose of complying with SEPA. In any other case the director shall be the responsible official or he shall designate another person to be the responsible official.

[Order 76-16, § 296-07-060, filed 5/20/76.]

WAC 296-07-070 Department's SEPA public information center. There is hereby established a department public information center to carry out the functions contemplated by the SEPA guidelines, WAC 197-10-830, to be located in the offices of the department at Olympia, Washington. The department's public records officer shall have charge thereof.

[Order 76-16, § 296-07-070, filed 5/20/76.]

WAC 296-07-080 Maintenance of EIS available register. The department shall maintain an EIS available register at its SEPA public information center. Said register shall be in the charge of the department's public records officer and it shall be available for public inspection and copying.

[Order 76-16, § 296-07-080, filed 5/20/76.]

WAC 296-07-090 Exemption for emergency actions. When actions are exempted from the requirements of SEPA or the SEPA guidelines because they are actions which must be taken immediately, or within a time too short to allow full compliance with SEPA or the SEPA guidelines to avoid an imminent danger to public or private property, or to prevent an imminent threat of serious environmental degradation, the responsible official shall prepare a written statement showing the nature of the action and the reasons for immediate action. Such statement shall be filed in the department's SEPA public information center.

[Order 76-16, § 296-07-090, filed 5/20/76.]

WAC 296-07-100 Chapter to be amended when SEPA guidelines amended. When amendments are adopted to the SEPA guidelines the department shall adopt all amendments to this chapter within one hundred twenty days to bring this chapter into conformance with the SEPA guidelines as amended.

[Order 76-16, § 296-07-100, filed 5/20/76.]

WAC 296-07-110 Consideration of economic values. In promulgating rules in compliance with the SEPA guidelines and any environmental, social, health, safety, or other standards connected therewith, the department shall, pursuant to chapter 117, Laws of 1975-'76 2nd ex. sess., give appropriate consideration to economic values along with such other considerations.

[Order 76-16, § 296-07-110, filed 5/20/76.]

Chapter 296-08 WAC
PRACTICE AND PROCEDURE

WAC

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WAC 296-08-001 Effective date and validity. These rules of practice and procedure have been adopted by the department of labor and industries in accordance with the authority vested in it by law and pursuant to a hearing held at Olympia, Washington, on March 10, 1960. The effective date of these rules is March 18th, 1960.

[Rule .08.591, effective 3/18/60, filed 3/23/60.]

WAC 296-08-010 Appearance and practice before agency—Who may appear. No person may appear in a representative capacity before the department or any division, board, commission or council thereof or its designated hearing officer other than the following:

(1) Attorneys at law duly qualified and entitled to practice before the supreme court of the state of Washington.

(2) Attorneys at law duly qualified and entitled to practice before the highest court of record of any other state, if the attorneys at law of the state of Washington are permitted to appear in a representative capacity before administrative

agencies of such other state, and if not otherwise prohibited by our state law.

(3) Persons otherwise qualified as possessing the requisite skill to appear and expertly represent others who have applied to the department or the division, board, commission or council thereof and have been duly authorized by the same to appear before it in a representative capacity.

(4) A bona fide officer, partner, or full time employee of an individual firm, association, partnership, or corporation.

[Rule .08.010, effective 3/18/60, filed 3/23/60.]

WAC 296-08-020 Appearance and practice before agency—Appearance in certain proceedings may be limited to attorneys. In all hearings involving the taking of testimony and the formulation of a record subject to review by the courts, where the department or any division, board, commission or council thereof or its designated hearing officer determine that representative activity in such hearing requires a high degree of legal training, experience, and skill, the department or the division, board, commission or council thereof or its designated hearing officer may limit those who may appear in a representative capacity to attorneys at law.

[Rule .08.020, effective 3/18/60, filed 3/23/60.]

WAC 296-08-025 Attorney's fees. (1) The department of labor and industries (hereinafter department) shall fix a reasonable attorney fee to be paid by the worker, crime victim, or beneficiary for services rendered with the department if written application therefor is made by the attorney, worker, crime victim, or beneficiary, as provided in RCW 51.52.120.

(a) Fees will be set only for services rendered prior to the notice of appeal;

(b) On closed claims, fees will only be set if written application is received by the department within one year from the claim closure date as indicated on the department order.

(c) If such application for fixing of a fee is made by the attorney, it shall set forth therein the monetary amount which the attorney considers reasonable for all services rendered with the department, the reason such fee is considered to be reasonable, and a detailed breakdown of the time spent by the attorney in representing the injured worker.

(d) In all instances, the department shall afford to all parties affected a minimum of ten days in which to submit comment and material information which may be helpful to the department in setting a fair and reasonable fee.

(e) The department will provide copies of information sent to the department to the attorney, worker, crime victim, or beneficiary upon request.

(f) Informal contact may be made with the parties to determine the feasibility of reaching an agreement on the amount of the fees.

(g) Additional information necessary to reach a decision may be requested by the department.

(2) *Fee fixing criteria.* All attorney fees fixed by the department where application therefor has been made shall be established in accordance with the following general principles:

(a) Only one fee shall be fixed for legal services in any one claim regardless of the number of attorneys representing the worker, crime victim, or beneficiary, except that in cases of multiple beneficiaries represented by one or multiple attorneys the department has the discretion to set more than one attorney fee if so requested.

(b) The department shall defer fixing a fee until such time as information, which it deems sufficient upon which to base a fee, is available.

(c) A fee shall be fixed only in those cases where the attorney's services are instrumental in securing additional benefits to the worker, crime victim, or beneficiary.

(d) Where increased compensation is obtained, the fee may be fixed without regard to any medical benefits secured.

(e) In setting all fees, the following factors shall be carefully considered and weighed:

(i) Nature of the claim.

(ii) Novelty and complexity of the issues presented or other unusual circumstances.

(iii) Time and labor expended.

(iv) Skill and diligence in resolving the claim.

(v) Extent and nature of the relief.

(vi) The prevalent practice of charging contingency fees in the department.

(vii) The worker's or crime victim's circumstance and the remedial social purposes of the Industrial Insurance Act and of the Crime Victims Compensation Act, which are intended to provide sure and adequate relief to injured workers and crime victims and their families.

(3) The manager of the claims consultant division of the department is the director's designee to process all petitions to set attorney's fees and to issue orders setting those fees for services rendered by attorneys in securing industrial insurance benefits. The supervisor of the crime victims section of the department is the director's designee to process all petitions to set attorney's fees and to issue orders setting those fees for services rendered by attorneys in securing crime victims benefits.

[Statutory Authority: RCW 51.52.120, 51.04.020 and 7.68.110. 87-02-037 (Order 86-42), § 296-08-025, filed 1/2/87.]

WAC 296-08-030 Appearance and practice before agency—Solicitation of business unethical. It shall be unethical for persons acting in a representative capacity before the department or any division, board, commission or council thereof to solicit business by circulars, advertisements or by personal relations, provided that such representatives may publish or circulate business cards. It is equally unethical to procure business indirectly by solicitors of any kind.

[Rule .08.030, effective 3/18/60, filed 3/23/60.]

WAC 296-08-040 Appearance and practice before agency—Standards of ethical conduct. All persons appearing in proceedings before the department of any division, board, commission or council thereof in representative capacity shall conform to the standards of ethical conduct required of attorneys before the courts of Washington. If any such person does not conform to such standards, the department or the division, board, commission or council thereof

may decline to permit such person to appear in a representative capacity in any proceeding before it.

[Rule .08.040, effective 3/18/60, filed 3/23/60.]

WAC 296-08-050 Appearance and practice before agency—Appearance by former employee of agency or former member of attorney general's staff. No former employee of the department or any division, board, commission or council thereof or member of the attorney general's staff may at any time after severing his employment with the department or the division, board, commission or council thereof or the attorney general appear, except with the written permission and in compliance with RCW 42.22.040, in a representative capacity on behalf of other parties in a formal proceeding wherein he previously took an active part as a representative of the department or any division, board, commission or council thereof.

[Rule .08.050, effective 3/18/60, filed 3/23/60.]

WAC 296-08-060 Appearance and practice before agency—Former employee as expert witness. No former employee of the department or any division, board, commission or council thereof shall at any time after severing his employment with the department or the division, board, commission or council thereof appear, except with the written permission and in compliance with RCW 42.22.040, as an expert witness on behalf of other parties in a formal proceeding wherein he previously took an active part in the investigation as a representative of the department or any division, board, commission or council thereof.

[Rule .08.060, effective 3/18/60, filed 3/23/60.]

WAC 296-08-070 Computation of time. In computing any period of time prescribed or allowed by the rules or by the order of the department or any division, board, commission or council thereof or by any applicable statute, the day of the act, event, or default after which the designated period of time begins to run is not to be included. The last day of the period so computed is to be included, unless it is a Saturday, Sunday or a legal holiday, in which event the period runs until the end of the next day which is neither a Saturday, Sunday nor a holiday. When the period of time prescribed or allowed is less than seven days, intermediate Saturdays, Sundays and holidays shall be excluded in the computation.

[Rule .08.070, effective 3/18/60, filed 3/23/60.]

WAC 296-08-080 Notice and opportunity for hearing in contested cases. In any contested case, all parties shall be served with a notice at least 10 days before the date set for the hearing, unless otherwise prescribed by law, or unless all interested parties waive such notice in writing. The notice shall state the time, place, and issues involved, as required by RCW 34.04.090 (2)(i).

[Rule .08.080, effective 3/18/60, filed 3/23/60.]

WAC 296-08-090 Service of process—By whom served. The department or any division, board, commission or council thereof shall cause to be served all orders, notices and other papers issued by it, together with any other papers which it is required by law to serve. Every other paper shall be served by the party filing it.

[Rule .08.090, effective 3/18/60, filed 3/23/60.]

WAC 296-08-100 Service of process—Upon whom served. All papers served by either the department or any division, board, commission or council thereof or any party shall be served upon all counsel of record at the time such filing and upon parties not represented by counsel or upon their agents designated by them by law. Any counsel entering an appearance subsequent to the initiation of the proceeding shall notify all other counsel then of record and all parties not represented by counsel of such fact.

[Rule .08.100, effective 3/18/60, filed 3/23/60.]

WAC 296-08-110 Service of process—Service upon parties. The final order, and any other paper required to be served by the agency upon a party, shall be served upon such party or upon the agent designated by him or by law to receive service of such papers, and a copy shall be furnished to counsel of record.

[Rule .08.110, effective 3/18/60, filed 3/23/60.]

WAC 296-08-120 Service of process—Methods of service. Service of papers shall be made personally or, unless otherwise provided by law, by first-class, or registered, or certified mail; or by telegraph.

[Rule .08.120, effective 3/18/60, filed 3/23/60.]

WAC 296-08-130 Service of process—When service complete. Service upon parties shall be regarded as complete: By mail, upon deposit in the United States mail properly stamped and addressed; by telegraph, when deposited with a telegraph company properly addressed and with charges prepaid.

[Rule .08.130, effective 3/18/60, filed 3/23/60.]

WAC 296-08-140 Service of process—Filing with agency. Papers required to be filed with the department or any division, board, commission or council thereof shall be deemed filed upon actual receipt by the department or the division, board, commission or council thereof at the place specified in its rules accompanied by proof of service upon parties required to be served.

[Rule .08.140, effective 3/18/60, filed 3/23/60.]

WAC 296-08-150 Subpoenas—Where provided by law—Form. Every subpoena, where authorized by law, shall state "department of labor and industries, state of Washington (name of appropriate division, board, etc.)" and the title of the proceeding, if any, and shall command the person to whom it is directed to attend and give testimony or produce designated books, documents or things under his control at a specified time and place.

[Rule .08.150, effective 3/18/60, filed 3/23/60.]

WAC 296-08-160 Subpoenas—Issuance to parties. Upon application of counsel or other representative autho-

rized to practice before the agency for any party to a contested case, there shall be issued to such party subpoenas requiring the attendance and testimony of witnesses or the production of evidence in such proceeding. Where authorized by law, the department, or any division, board, commission or council thereof may issue subpoenas to parties not so represented upon request or upon a showing of general relevance and reasonable scope of the testimony or evidence sought.

[Rule .08.160, effective 3/18/60, filed 3/23/60.]

WAC 296-08-170 Subpoenas—Service. Unless the service of a subpoena is acknowledged on its face by the person subpoenaed, service shall be made by delivering a copy of the subpoena to such person and by tendering him on demand, if entitled to make such demand, the fees for one day's attendance and the mileage allowed by law.

[Rule .08.170, effective 3/18/60, filed 3/23/60.]

WAC 296-08-180 Subpoenas—Fees. Witnesses summoned before the department or any division, board, commission or council thereof shall be paid by the party at whose instance they appear the same fees and mileage that are paid to witnesses in the superior courts of the state of Washington.

[Rule .08.180, effective 3/18/60, filed 3/23/60.]

WAC 296-08-190 Subpoenas—Proof of service. The person serving the subpoena shall make proof of service by filing the subpoena and the required return, affidavit or acknowledgment of service with the department or the division, board, commission or council thereof or the officer before whom the witness is required to testify or produce evidence. If service is made by a person other than an officer of the department or the division, board, commission or council thereof and such service has not been acknowledged by the witness, such person shall make an affidavit of service. Failure to make proof of service does not affect the validity of the service.

[Rule .08.190, effective 3/18/60, filed 3/23/60.]

WAC 296-08-200 Subpoenas—Quashing. Upon motion made promptly, and in any event at or before the time specified in the subpoena for compliance, by the person to whom the subpoena is directed (and upon notice to the party to whom the subpoena was issued) the department or the division, board, commission or council thereof or its authorized member or officer may (1) quash or modify the subpoena if it is unreasonable or requires evidence not relevant to any matter in issue, or (2) condition denial of the motion upon just and reasonable conditions.

[Rule .08.200, effective 3/18/60, filed 3/23/60.]

WAC 296-08-210 Subpoenas—Enforcement. Upon application and for good cause shown, the department or any division, board, commission or council thereof will seek judicial enforcement of subpoenas, where authorized by law, issued to parties and which have not been quashed.

[Rule .08.210, effective 3/18/60, filed 3/23/60.]

WAC 296-08-220 Subpoenas—Geographical scope. Such attendance of witnesses and such production of evidence may be required from any place in the state of Washington, at any designated place of hearing.

[Rule .08.220, effective 3/18/60, filed 3/23/60.]

WAC 296-08-370 Official notice—Matters of law. The department or any division, board, commission or council thereof or its hearing officer upon request made before or during a hearing, will officially notice:

(1) **Federal law.** The Constitution; congressional acts, resolutions, records, journals and committee reports; decisions of federal courts and administrative agencies; executive orders and proclamations; and all rules, orders and notices published in the federal register.

(2) **State law.** The Constitution of the state of Washington, acts of the legislature, resolutions, records, journals and committee reports; decisions of administrative agencies of the state of Washington, executive orders and proclamations by the governor; and all rules, orders and notices filed with the code reviser.

(3) **Governmental organization.** Organization, territorial limitations, officers, departments, and general administration of the government of the state of Washington, the United States, the several states and foreign nations.

(4) **Agency organization.** The department's or any division's, board's, commission's or council's thereof organization, administration, officers, personnel, official publications, and practitioners before its bar.

[Rule .08.370, effective 3/18/60, filed 3/23/60.]

WAC 296-08-380 Official notice—Material facts. In the absence of controverting evidence, the department or any division, board, commission or council thereof and its hearing officers, upon request made before or during a hearing, may officially notice:

(1) **Agency proceedings.** The pendency of, the issue and position of the parties therein, and the disposition of any proceeding then pending before or theretofore concluded by the department or the division, board, commission or council thereof;

(2) **Business customs.** General customs and practices followed in the transaction of business;

(3) **Notorious facts.** Facts so generally and widely known to all well-informed persons as not to be subject to reasonable dispute, or specific facts which are capable of immediate and accurate demonstration by resort to accessible sources of generally accepted authority, including but not exclusively, facts stated in any publication authorized or permitted by law to be made by any federal or state officer, department, or agency;

(4) **Technical knowledge.** Matters within the technical knowledge of the department or the division, board, commission or council thereof as a body of experts, within the scope or pertaining to the subject matter of its statutory duties, responsibilities or jurisdiction;

(5) **Request or suggestion.** Any party may request, or the hearing officer or the department or the division, board, commission or council thereof may suggest, that official

notice be taken of a material fact, which shall be clearly and precisely stated, orally on the record, at any prehearing conference or oral hearing or argument, or may make such request or suggestion by written notice, any pleading, motion, memorandum, or brief served upon all parties, at any time prior to a final decision;

(6) **Statement.** Where an initial or final decision of the department or the division, board, commission or council thereof rests in whole or in part upon official notice of a material fact, such fact shall be clearly and precisely stated in such decision. In determining whether to take official notice of material facts, the hearing officer of the department or the division, board, commission or council thereof may consult any source of pertinent information, whether or not furnished as it may be, by any party and whether or not admissible under the rules of evidence;

(7) **Controversion.** Any party may controvert a request or a suggestion that official notice of a material fact be taken at the time the same is made if it be made orally, or by a pleading, reply or brief in response to the pleading or brief or notice in which the same is made or suggested. If any decision is stated to rest in whole or in part upon official notice of a material fact which the parties have not had a prior opportunity to controvert, any party may controvert such fact by appropriate exceptions if such notice be taken in an initial or intermediate decision or by a petition for reconsideration if notice of such fact be taken in a final report. Such controversion shall concisely and clearly set forth the sources, authority and other data relied upon to show the existence or nonexistence of the material fact assumed or denied in the decision;

(8) **Evaluation of evidence.** Nothing herein shall be construed to preclude the department or the division, board, commission or council thereof or its authorized agents from utilizing their experience, technical competence, and specialized knowledge in the evaluation of the evidence presented to them.

[Rule .08.380, effective 3/18/60, filed 3/23/60.]

WAC 296-08-390 Presumptions. Upon proof of the predicate facts specified in the following six subsections hereof without substantial dispute and by direct, clear, and convincing evidence, the department or the division, board, commission or council thereof with or without prior request or notice, may make the following presumptions, where consistent with all surrounding facts and circumstances:

(1) **Continuity.** That a fact of a continuous nature, provided to exist at a particular time, continues to exist as of the date of the presumption, if the fact is one which usually exists for at least that period of time;

(2) **Identity.** That persons and objects of the same name and description are identical;

(3) **Delivery.** Except in a proceeding where the liability of the carrier for nondelivery is involved, that mail matter, communications, express or freight, properly addressed, marked, billed and delivered respectively to the post office, telegraph, cable or radio company, or authorized common carrier of property with all postage, tolls and charges properly prepaid, is or has been delivered to the addressee or consignee in the ordinary course of business;

(4) **Ordinary course.** That a fact exists or does not exist, upon proof of the existence or nonexistence of another fact which in the ordinary and usual course of affairs, usually and regularly co-exists with the fact presumed;

(5) **Acceptance of benefit.** That a person for whom an act is done or to whom a transfer is made has, does or will accept same where it is clearly in his own self-interest so to do;

(6) **Interference with remedy.** That evidence, with respect to a material fact which in bad faith is destroyed, eloigned, suppressed or withheld by a party in control thereof, would if produced, corroborate the evidence of the adversary party with respect to such fact.

[Rule .08.390, effective 3/18/60, filed 3/23/60.]

WAC 296-08-400 Stipulations and admissions of record. The existence or nonexistence of a material fact, as made or agreed in a stipulation or in an admission of record, will be conclusively presumed against any party bound thereby, and no other evidence with respect thereto will be received upon behalf of such party, provided:

(1) **Upon whom binding.** Such a stipulation or admission is binding upon the parties by whom it is made, their privies and upon all other parties to the proceeding who do not expressly and unequivocally deny the existence or nonexistence of the material fact so admitted or stipulated, upon the making thereof, if made on the record at a prehearing conference, oral hearing, oral argument or by a writing filed and served upon all parties within five days after a copy of such stipulation or admission has been served upon them;

(2) **Withdrawal.** Any party bound by a stipulation or admission or record at any time prior to final decision may be permitted to withdraw the same in whole or in part by showing to the satisfaction of the hearing officer or the department or the division, board, commission or council thereof that such stipulation or admission was made inadvertently or under a bona fide mistake of fact contrary to the true fact and that its withdrawal at the time proposed will not unjustly prejudice the rights of other parties to the proceeding.

[Rule .08.400, effective 3/18/60, filed 3/23/60.]

WAC 296-08-410 Form and content of decisions in contested cases. Every decision and order, whether proposed, initial, or final, shall:

(1) Be correctly captioned as to name of agency and name of proceeding;

(2) Designate all parties and counsel to the proceeding;

(3) Include a concise statement of the nature and background of the proceeding;

(4) Be accompanied by appropriate numbered findings of fact and conclusions of law;

(5) Whenever practical, include the reason or reasons for the particular order or remedy afforded;

(6) Wherever practical, be referenced to specific provisions of the law and/or regulations appropriate thereto, together with reasons and precedents relied upon to support the same.

[Rule .08.410, effective 3/18/60, filed 3/23/60.]

WAC 296-08-420 Definition of issues before hearing. In all proceedings the issues to be adjudicated shall be made initially as precise as possible, in order that hearing officers may proceed promptly to conduct the hearings on relevant and material matter only.

[Rule .08.420, effective 3/18/60, filed 3/23/60.]

WAC 296-08-430 Prehearing conference rule—Authorized. In any proceeding the department or any division, board, commission or council thereof or its designated hearing officer upon its or his own motion, or upon the motion of one of the parties or their qualified representatives, may in its or his discretion direct the parties or their qualified representatives to appear at a specified time and place for a conference to consider:

(1) The simplification of the issues;

(2) The necessity of amendments to the pleadings;

(3) The possibility of obtaining stipulations, admissions of facts and of documents;

(4) The limitation of the number of expert witnesses;

(5) Such other matters as may aid in the disposition of the proceeding.

[Rule .08.430, effective 3/18/60, filed 3/23/60.]

WAC 296-08-440 Prehearing conference rule—Record of conference action. The department of the division, board, commission or council thereof or its designated hearing officer shall make an order or statement which recites the action taken at the conference, the amendments allowed to the pleadings and the agreements made by the parties or their qualified representatives as to any of the matters considered, including the settlement or simplification of issues, and which limits the issues for hearing to those not disposed of by admissions or agreements; and such order or statement shall control the subsequent course of the proceeding unless modified for good cause by subsequent order.

[Rule .08.440, effective 3/18/60, filed 3/23/60.]

WAC 296-08-450 Submission of documentary evidence in advance. Where practical the department or the division, board, commission or council thereof or its designated hearing officer may require:

(1) That all documentary evidence which is to be offered during the taking of evidence be submitted to the hearing examiner and to the other parties to the proceeding sufficiently in advance of such taking of evidence to permit study and preparation of cross-examination and rebuttal evidence.

(2) That documentary evidence not submitted in advance, as may be required by subsection (1), be not received in evidence in the absence of a clear showing that the offering party had good cause for his failure to produce the evidence sooner;

(3) That the authenticity of all documents submitted in advance in a proceeding in which such submission is required, be deemed admitted unless written objection thereto is filed prior to the hearing, except that a party will be permitted to challenge such authenticity at a later time upon a clear showing of good cause for failure to have filed such written objection.

[Rule .08.450, effective 3/18/60, filed 3/23/60.]

WAC 296-08-460 Excerpts from documentary evidence. When portions only of a document are to be relied upon, the offering party shall prepare the pertinent excerpts, adequately identified, and shall supply copies of such excerpts, together with a statement indicating the purpose for which such materials will be offered, to the hearing examiner and to other parties. Only the excerpts, so prepared and submitted, shall be received in the record. However, the whole of the original document shall be made available for examination and for use by all parties to the proceeding.

[Rule .08.460, effective 3/18/60, filed 3/23/60.]

WAC 296-08-470 Expert or opinion testimony and testimony based on economic and statistical data—Number and qualifications of witnesses. That the hearing examiner or other appropriate officer in all classes of cases where practicable make an effort to have the interested parties agree upon the witness or witnesses who are to give expert or opinion testimony, either by selecting one or more to speak for all parties or by limiting the number for each party; and, if the interested parties cannot agree, require them to submit to him to the other parties written statements containing the names, addresses and qualifications of their respective opinion or expert witnesses, by a date determined by him and fixed sufficiently in advance of the hearing to permit the other interested parties to investigate such qualifications.

[Rule .08.470, effective 3/18/60, filed 3/23/60.]

WAC 296-08-480 Expert or opinion testimony and testimony based on economic and statistical data—Written sworn statements. That the hearing examiner or other appropriate officer, in all classes of cases in which it is practicable and permissible, require, and when not so permissible, make every effort to bring about by voluntary submission, that all direct opinion or expert testimony and all direct testimony based on economic or statistical data be reduced to written sworn statements, and, together with the exhibits upon which based, be submitted to him and to the other parties to the proceeding by a date determined by the hearing officer and fixed a reasonable time in advance of the hearing; and that such sworn statements be acceptable as evidence upon formal offer at the hearing, subject to objection on any ground except that such sworn statements shall not be subject to challenge because the testimony is not presented orally, and provided that witnesses making such statements shall not be subject to cross-examination unless a request is made sufficiently in advance of the hearing to insure the presence of the witnesses.

[Rule .08.480, effective 3/18/60, filed 3/23/60.]

WAC 296-08-490 Expert or opinion testimony and testimony based on economic and statistical data—Supporting data. That the hearing examiner or other appropriate officer, in his discretion but consistent with the rights of the parties, cause the parties to make available for inspection in advance of the hearing, and for purposes of cross-examination at the hearing, the data underlying statements and exhib-

its submitted in accordance with WAC 296-08-480, but, wherever practicable that he restrict to a minimum the placing of such data in the record.

[Rule .08.490, effective 3/18/60, filed 3/23/60.]

WAC 296-08-500 Expert or opinion testimony and testimony based on economic and statistical data—Effect of noncompliance with WAC 296-08-470 or 296-08-480. Whenever the manner of introduction of opinion or expert testimony or testimony based on economic or statistical data is governed by requirements fixed under the provisions of WAC 296-08-470 or 296-08-480, such testimony not submitted in accordance with the relevant requirements shall not be received in evidence in the absence of a clear showing that the offering party had good cause for his failure to conform to such requirements.

[Rule .08.500, effective 3/18/60, filed 3/23/60.]

WAC 296-08-510 Continuances. Any party who desires a continuance shall, immediately upon receipt of notice of hearing, or as soon thereafter as requiring such continuance come to his knowledge, notify the department or the division, board, commission or council thereof or its designated hearing officer of said desire, stating in detail the reasons why such continuance is necessary. The department or the division, board, commission or council thereof or its designated hearing officer, in passing upon a request for continuance, shall consider whether such request was promptly and timely made. For good cause shown the department or the division, board, commission or council thereof or its designated hearing officer may grant such a continuance and may at any time order a continuance upon its or his own motion. During a hearing, if it appears in the public interest or in the interest of justice that further testimony or argument should be received, the examiner or other officer conducting the hearing may in his discretion continue the hearing and fix a date for introduction of additional evidence or presentation of argument. Such oral notice shall constitute final notice of such continued hearing.

[Rule .08.510, effective 3/18/60, filed 3/23/60.]

WAC 296-08-520 Rules of evidence—Admissibility criteria. Subject to the other provisions of these rules, all relevant evidence is admissible which, in the opinion of the officer conducting the hearing, is the best evidence reasonably obtainable, having due regard for its necessity, availability and trustworthiness. In passing upon the admissibility of evidence, the officer conducting the hearing shall give consideration to, but shall not be bound to follow, the rules of evidence governing civil proceedings in matters not involving trial by jury, in the superior court of the state of Washington.

[Rule .08.520, effective 3/18/60, filed 3/23/60.]

WAC 296-08-530 Rules of evidence—Tentative admission—Exclusion—Discontinuance—Objections. When objection is made to the admissibility of evidence such evidence may be received subject to a later ruling. The officer conducting the hearing may, in his discretion, either with or without objection, exclude inadmissible evidence or order cumulative evidence discontinued. Parties objecting to the introduction of evidence shall state the precise grounds of such objection at the time such evidence is offered.

[Rule .08.530, effective 3/18/60, filed 3/23/60.]

WAC 296-08-540 Petitions for rule making, amendment or repeal. Any interested person may petition the department or any division, board, commission or council thereof requesting the promulgation, amendment, or repeal of any rule.

[Rule .08.540, effective 3/18/60, filed 3/23/60.]

WAC 296-08-550 Petitions for rule making, amendment or repeal—Requisites. Where the petition requests the promulgation of a rule, the requested or proposed rule must be set out in full, the petition must also include all the reasons for the requested rule together with briefs of any applicable law. Where the petition requests the amendment or repeal of a rule presently in effect, the rule or portion of the rule in question must be set out as well as a suggested amended form, if any. The petition must include all reasons for the requested amendment or repeal of the rule.

[Rule .08.550, effective 3/18/60, filed 3/23/60.]

WAC 296-08-560 Petitions for rule making, amendment or repeal—Agency must consider. All petitions shall be considered by the department or the division, board, commission or council thereof and the department or the division, board, commission or council thereof may, in its discretion, order a hearing for the further consideration and discussion of the requested promulgation, amendment, repeal or modification of any rule.

[Rule .08.560, effective 3/18/60, filed 3/23/60.]

WAC 296-08-570 Petitions for rule making, amendment or repeal—Notice of disposition. The department or the division, board, commission or council thereof shall notify the petitioning party within a reasonable time of the disposition, if any, of the petition.

[Rule .08.570, effective 3/18/60, filed 3/23/60.]

WAC 296-08-580 Declaratory rulings. As prescribed by RCW 34.04.080, any interested person may petition the department or any division, board, commission or council thereof for a declaratory ruling. The department or the division, board, commission or council thereof shall consider the petition and within a reasonable time shall:

(1) Issue a nonbinding declaratory ruling; or

(2) Notify the person that no declaratory ruling is to be issued; or

(3) Set a reasonable time and place for a hearing or the submission of written evidence upon the matter, and give reasonable notification to the person of the time and place for such hearing or submission and of the issues involved.

If a hearing is held or evidence is submitted as provided in subsection (3), the department or the division, board, commission or council thereof shall within a reasonable time:

(1) Issue a binding declaratory rule; or

(2) Issue a nonbinding declaratory ruling; or

(3) Notify the person that no declaratory ruling is to be issued.

[Rule .08.580, effective 3/18/60, filed 3/23/60.]

WAC 296-08-590 Forms. (1) Any interested person petitioning the department or the division, board, commission or council thereof for a declaratory ruling pursuant to RCW 34.04.080, shall generally adhere to the following form for such purpose.

(a) At the top of the page shall appear the wording "before the department of labor and industries (name of appropriate division board, etc.)." On the left side of the page below the foregoing the following caption shall be set out: "In the matter of the petition of (name of petitioning party) for a declaratory ruling." Opposite the foregoing caption shall appear the word "petition."

(b) The body of the petition shall be set out in numbered paragraphs. The first paragraph shall state the name and address of the petitioning party. The second paragraph shall state all rules or statutes that may be brought into issue by the petition. Succeeding paragraphs shall set out the state of facts relied upon in form similar to that applicable to complaints in civil actions before the superior courts of this state. The concluding paragraphs shall contain the prayer of the petitioner. The petition shall be subscribed and verified in the manner prescribed for verification of complaints in the superior courts of this state.

(c) The original and two legible copies shall be filed with the agency. Petitions shall be on white paper, either 8-1/2" x 11" or 8-1/2" x 13" in size.

(2) Any interested person petitioning the department or any division, board, commission or council thereof requesting the promulgation, amendment or repeal of any rules shall generally adhere to the following form for such purpose:

(a) At the top of the page shall appear the wording, "before the department of labor and industries (name of appropriate division, board, etc.)." On the left side of the page below the foregoing the following caption shall be set out: "In the matter of the petition of (name of petitioning party) for (state whether promulgation, amendment or repeal) of rule (or rules)." Opposite the foregoing shall appear the word "petition."

(b) The body of the petition shall be set out in numbered paragraphs. The first paragraph shall state the name and address of the petitioning party and whether petitioner seeks the promulgation of new rule or rules, or amendment or repeal of existing rule or rules. The second paragraph, in case of a proposed new rule or amendment of an existing rule, shall set forth the desired rule in its entirety. Where the petition is for amendment, the new matter shall be underscored and the matter proposed to be deleted shall appear in double parentheses. Where the petition is for repeal of an existing rule, such shall be stated and the rule proposed to be repealed shall either be set forth in full or shall be referred to by agency rule number. The third paragraph shall be set forth concisely the reasons for the proposal of the petitioner and shall contain a statement as to the interest of the petitioner in the subject matter of the rule. Additional numbered paragraphs may be used to give full explanation of petitioner's reason for the action sought.

(c) Petitions shall be dated and signed by the person or entity named in the first paragraph or by his attorney. The original and two legible copies of the petition shall be filed with the agency. Petitions shall be on white paper, either 8-1/2" x 11" or 8-1/2" x 13" in size.

[Rule .08.590, effective 3/18/60, filed 3/23/60.]

Chapter 296-09 WAC

PRACTICE AND PROCEDURE—BOARD OF BOILER RULES

WAC

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WAC 296-09-010 Appearance and practice before agency—Who may appear. No person may appear in a representative capacity before the board of boiler rules or its designated hearing officer other than the following:

(1) Attorneys at law duly qualified and entitled to practice before the supreme court of the state of Washington.

(2) Attorneys at law duly qualified and entitled to practice before the highest court of record of any other state, if the attorneys at law of the state of Washington are permitted to appear in a representative capacity before administrative agencies of such other state, and if not otherwise prohibited by our state law.

(3) Persons otherwise qualified as possessing the requisite skill to appear and expertly represent others who have applied to the board of boiler rules and have been duly authorized by the same to appear before it in a representative capacity.

(4) A bona fide officer, partner, or full-time employee of an individual firm, association, partnership, or corporation.

[Rule .08.010, effective 3/10/60, filed 3/23/60.]

WAC 296-09-020 Appearance and practice before agency—Appearance in certain proceedings may be limited to attorneys. In all hearings involving the taking of testimony and the formulation of a record subject to review by the courts, where the board of boiler rules or its designated hearing officer determine that representative activity in such hearing requires a high degree of legal training, experience, and skill, the board or its designated hearing officer may limit those who may appear in a representative capacity to attorneys at law.

[Rule .08.020, effective 3/10/60, filed 3/23/60.]

WAC 296-09-030 Appearance and practice before agency—Solicitation of business unethical. It shall be unethical for persons acting in a representative capacity before the board of boiler rules to solicit business by circulars, advertisements or by personal relations, provided that such representatives may publish or circulate business cards. It is equally unethical to procure business indirectly by solicitors of any kind.

[Rule .08.030, effective 3/10/60, filed 3/23/60.]

WAC 296-09-040 Appearance and practice before agency—Standards of ethical conduct. All persons appearing in proceedings before the board of boiler rules in representative capacity shall conform to the standards of ethical conduct required of attorneys before the courts of Washington. If any such person does not conform to such standards, the board may decline to permit such person to appear in a representative capacity in any proceeding before it.

[Rule .08.040, effective 3/10/60, filed 3/23/60.]

WAC 296-09-050 Appearance and practice before agency—Appearance of former employee of board or former member of attorney general's staff. No former employee of the board of boiler rules or member of the attorney general's staff may at any time after severing his employment with the board or the attorney general appear, except with the written permission and in compliance with chapter 42.22 RCW, in a representative capacity on behalf of other parties in a formal proceeding wherein he previously took an active part as a representative of the board.

[Rule .08.050, effective 3/10/60, filed 3/23/60.]

WAC 296-09-060 Appearance and practice before agency—Former employee as expert witness. No former employee of the board of boiler rules shall at any time after severing his employment with the board appear, except with the written permission and in compliance with chapter 42.22 RCW, as an expert witness on behalf of other parties in a formal proceeding wherein he previously took an active part in the investigation as a representative of the board.

[Rule .08.060, effective 3/10/60, filed 3/23/60.]

WAC 296-09-070 Computation of time. In computing any period of time prescribed or allowed by the rules or by the order of the board of boiler rules or by any applicable statute, the day of the act, event, or default after which the designated period of time begins to run is not to be included. The last day of the period so computed is to be included, unless it is a Saturday, Sunday or a legal holiday, in which event the period runs until the end of the next day which is neither a Saturday, Sunday nor a holiday. When the period of time prescribed or allowed is less than seven days, intermediate Saturdays, Sundays and holidays shall be excluded in the computation.

[Rule .08.070, effective 3/10/60, filed 3/23/60.]

WAC 296-09-080 Notice and opportunity for hearing in contested cases. In any contested case, all parties shall be served with a notice at least 10 days before the date set for the hearing, unless otherwise prescribed by law, or unless all interested parties waive such notice, and such waiver be noted in the minutes. The notice shall state the time, place, and issues involved, as required by RCW 34.04.090(1).

[Rule .08.080, effective 3/10/60, filed 3/23/60.]

WAC 296-09-090 Service of process—By whom served. The board of boiler rules shall cause to be served all orders, notices and other papers issued by it, together with any other papers which it is required by law to serve. Every other paper shall be served by the party filing it.

[Rule .08.090, effective 3/10/60, filed 3/23/60.]

WAC 296-09-100 Service of process—Upon whom served. All papers served by either the board of boiler rules or any party shall be served upon all counsel of record at the time [of] such filing and upon parties not represented by counsel or upon their agents designated by them by law. Any counsel entering an appearance subsequent to the initiation of the proceeding shall notify all other counsel then of record and all parties not represented by counsel of such fact.

[Rule .08.100, effective 3/10/60, filed 3/23/60.]

WAC 296-09-110 Service of process—Service upon parties. The final order, and any other paper required to be served by the agency upon a party, shall be served upon such party or upon the agent designated by him or by law to receive service of such papers, and a copy shall be furnished to counsel of record.

[Rule .08.110, effective 3/10/60, filed 3/23/60.]

WAC 296-09-120 Service of process—Method of service. Service of papers shall be made personally or, unless otherwise provided by law, by first-class, or registered, or certified mail; or by telegraph.

[Rule .08.120, effective 3/10/60, filed 3/23/60.]

WAC 296-09-130 Service of process—When service complete. Service upon parties shall be regarded as complete: By mail, upon deposit in the United States mail properly stamped and addressed; by telegraph, when deposited with a telegraph company properly addressed and with charges prepaid.

[Rule .08.130, effective 3/10/60, filed 3/23/60.]

WAC 296-09-140 Service of process—Filing with agency. Papers required to be filed with the board of boiler rules shall be deemed filed upon actual receipt by the board at the place specified in its rules accompanied by proof of service upon parties required to be served.

[Rule .08.140, effective 3/10/60, filed 3/23/60.]

WAC 296-09-370 Official notice—Matters of law. The board of boiler rules or its hearing officer upon request made before or during a hearing, will officially notice:

(1) **Federal law.** The Constitution; congressional acts, resolutions, records, journals and committee reports; decisions of federal courts and administrative agencies; executive orders and proclamations; and all rules, orders and notices published in the Federal Register.

(2) **State law.** The Constitution of the state of Washington, acts of the legislature, resolutions, records, journals and committee reports; decisions of administrative agencies of the state of Washington, executive orders and proclamations by the governor; and all rules, orders and notices filed with the code reviser.

(3) **Governmental organization.** Organization, territorial limitations, officers, departments, and general administration of the government of the state of Washington, the United States, the several states and foreign nations.

(4) **Agency organization.** The board of boiler rules' organization, administration, officers, personnel, official publications, and practitioners before its bar.

[Rule .08.370, effective 3/10/60, filed 3/23/60.]

WAC 296-09-380 Official notice—Material facts. In the absence of controverting evidence, the board of boiler rules and its hearing officers, upon request made before or during a hearing, may officially notice:

(1) **Agency proceedings.** The pendency of, the issue and position of the parties therein, and the disposition of any proceeding then pending before or theretofore concluded by the board of boiler rules;

(2) **Business customs.** General customs and practices followed in the transaction of business;

(3) **Notorious facts.** Facts so generally and widely known to all well-informed persons as not to be subject to reasonable dispute, or specific facts which are capable of immediate and accurate demonstration by resort to accessible sources of generally accepted authority, including but not exclusively, facts stated in any publication authorized or permitted by law to be made by any federal or state officer, department, or agency;

(4) **Technical knowledge.** Matters within the technical knowledge of the board of boiler rules as a body of experts, within the scope or pertaining to the subject matter of its statutory duties, responsibilities or jurisdiction;

(5) **Request or suggestion.** Any party may request, or the hearing officer or the board of boiler rules may suggest, that official notice be taken of a material fact, which shall be clearly and precisely stated, orally on the record, at any prehearing conference or oral hearing or argument, or may make such request or suggestion by written notice, any pleading, motion, memorandum, or brief served upon all parties, at any time prior to a final decision;

(6) **Statement.** Where an initial or final decision of the board of boiler rules rests in whole or in part upon official notice of a material fact, such fact shall be clearly and precisely stated in such decision. In determining whether to take official notice of material facts, the hearing officer of the board may consult any source of pertinent information, whether or not furnished as it may be, by any party and whether or not admissible under the rules of evidence;

(7) **Controversion.** Any party may controvert a request or a suggestion that official notice of a material fact be taken at the time the same is made if it be made orally, or by a pleading, reply or brief in response to the pleading or brief or notice in which the same is made or suggested. If any decision is stated to rest in whole or in part upon official notice of a material fact which the parties have not had a prior opportunity to controvert, any party may controvert such fact by appropriate exceptions if such notice be taken in an initial or intermediate decision or by a petition for reconsideration if notice of such fact be taken in a final report. Such controversion shall concisely and clearly set forth the sources, authority and other data relied upon to show the existence or nonexistence of the material fact assumed or denied in the decision;

(8) **Evaluation of evidence.** Nothing herein shall be construed to preclude the board of boiler rules or its authorized agents from utilizing their experience, technical competence, and specialized knowledge in the evaluation of the evidence presented to them.

[Rule .08.380, effective 3/10/60, filed 3/23/60.]

WAC 296-09-390 Presumptions. Upon proof of the predicate facts specified in the following six subdivisions hereof without substantial dispute and by direct, clear, and convincing evidence, the board of boiler rules with or without prior request or notice, may take the following presumptions, where consistent with all surrounding facts and circumstances:

(1) **Continuity.** That a fact of a continuous nature, provided to exist at a particular time, continues to exist as of the date of the presumption, if the fact is one which usually exists for at least that period of time;

(2) **Identity.** That persons and objects of the same name and description are identical;

(3) **Delivery.** Except in a proceeding where the liability of the carrier for nondelivery is involved, that mail matter, communications, express or freight, properly addressed, marked, billed and delivered respectively to the post office, telegraph, cable or radio company, or authorized common carrier of property with all postage, tolls and charges properly prepaid, is or has been delivered to the addressee or consignee in the ordinary course of business;

(4) **Ordinary course.** That a fact exists or does not exist, upon proof of the existence or nonexistence of another fact which in the ordinary and usual course of affairs, usually and regularly co-exists with the fact presumed;

(5) **Acceptance of benefit.** That a person for whom an act is done or to whom a transfer is made has, does or will accept same where it is clearly in his own self-interest so to do,

(6) **Interference with remedy.** That evidence, with respect to a material fact which in bad faith is destroyed, eloigned, suppressed or withheld by a party in control thereof, would if produced, corroborate the evidence of the adversary party with respect to such fact.

[Rule .08.390, effective 3/10/60, filed 3/23/60.]

WAC 296-09-400 Stipulations and admissions of record. The existence or nonexistence of a material fact, as made or agreed in a stipulation or in an admission of record, will be conclusively presumed against any party bound thereby, and no other evidence with respect thereto will be received upon behalf of such party, provided:

(1) **Upon whom binding.** Such a stipulation or admission is binding upon the parties by whom it is made, their privies and upon all other parties to the proceeding who do not expressly and unequivocally deny the existence or nonexistence of the material fact so admitted or stipulated, upon the making thereof, if made on the record at a prehearing conference, oral hearing, oral argument or by a writing filed and served upon all parties within five days after a copy of such stipulation or admission has been served upon them;

(2) **Withdrawal.** Any party bound by a stipulation or admission or record at any time prior to final decision may be permitted to withdraw the same in whole or in part by showing to the satisfaction of the hearing officer or the board of boiler rules that such stipulation or admission was made inadvertently or under a bona fide mistake of fact contrary to the true fact and that its withdrawal at the time proposed will not unjustly prejudice the rights of other parties to the proceeding.

[Rule .08.400, effective 3/10/60, filed 3/23/60.]

WAC 296-09-410 Form and content of decisions in contested cases. Every decision and order, whether proposed, initial, or final, shall: (1) Be correctly captioned as to name of agency and name of proceeding;

(2) Designate all parties and counsel to the proceeding.

(3) Include a concise statement of the nature and background of the proceeding;

(4) Be accompanied by appropriate numbered findings of fact and conclusions of law;

(5) Whenever practical, include the reason or reasons for the particular order or remedy afforded;

(6) Wherever practical, be referenced to specific provisions of the law and/or regulations appropriate thereto, together with reasons and precedents relied upon to support the same.

[Rule .08.410, effective 3/10/60, filed 3/23/60.]

WAC 296-09-420 Definition of issues before hearing. In all proceedings the issues to be adjudicated shall be made initially as precise as possible, in order that hearing officers may proceed promptly to conduct the hearings on relevant and material matter only.

[Rule .08.420, effective 3/10/60, filed 3/23/60.]

WAC 296-09-430 Prehearing conference rule—Authorized. In any proceeding the board of boiler rules or its designated hearing officer upon its or his own motion, or upon the motion of one of the parties or their qualified representatives, may in its or his discretion direct the parties or their qualified representatives to appear at a specified time and place for a conference to consider

(1) The simplification of the issues;

(2) The necessity of amendments to the pleadings;

(3) The possibility of obtaining stipulations, admissions of facts and of documents;

(4) The limitation of the number of expert witnesses;

(5) Such other matters as may aid in the disposition of the proceeding.

[Rule .08.430, effective 3/10/63, filed 3/23/60.]

WAC 296-09-440 Prehearing conference rule—Record of conference action. The board of boiler rules or its designated hearing officer shall make an order or statement which recites the action taken at the conference, the amendments allowed to the pleadings and the agreements made by the parties or their qualified representatives as to any of the matters considered, including the settlement or simplification of issues, and which limits the issues for hearing to those not disposed of by admissions or agreements; and such order or statement shall control the subsequent course of the proceeding unless modified for good cause by subsequent order.

[Rule .08.440, effective 3/10/60, filed 3/23/60.]

WAC 296-09-450 Submission of documentary evidence in advance. Where practical the board of boiler rules or its designated hearing officer may require: (1) That all documentary evidence which is to be offered during the taking of evidence be submitted to the hearing examiner and to the other parties to the proceeding sufficiently in advance of such taking of evidence to permit study and preparation of cross-examination and rebuttal evidence.

(2) That documentary evidence not submitted in advance, as may be required by subsection (1), be not received in evidence in the absence of a clear showing that the offering party had good cause for his failure to produce the evidence sooner;

(3) That the authenticity of all documents submitted in advance in a proceeding in which such submission is

required, be deemed admitted unless written objection thereto is filed prior to the hearing, except that a party will be permitted to challenge such authenticity at a later time upon a clear showing of good cause for failure to have filed such written objection.

[Rule .08.450, effective 3/10/60, filed 3/23/60.]

WAC 296-09-460 Excerpts from documentary evidence. When portions only of a document are to be relied upon, the offering party shall prepare the pertinent excerpts, adequately identified, and shall supply copies of such excerpts, together with a statement indicating the purpose for which such materials will be offered, to the hearing examiner and to other parties. Only the excerpts, so prepared and submitted, shall be received in the record. However, the whole of the original document shall be made available for examination and for use by all parties to the proceeding.

[Rule .08.460, effective 3/10/60, filed 3/23/60.]

WAC 296-09-470 Expert or opinion testimony and testimony based on economic or statistical data—Number and qualifications of witnesses. That the hearing examiner or other appropriate officer in all classes of cases where practicable make an effort to have the interested parties agree upon the witness or witnesses who are to give expert or opinion testimony, either by selecting one or more to speak for all parties or by limiting the number for each party; and, if the interested parties cannot agree, require them to submit to him [and] to the other parties written statements containing the names, addresses and qualifications of their respective opinion or expert witnesses, by a date determined by him and fixed sufficiently in advance of the hearing to permit the other interested parties to investigate such qualifications.

[Rule .08.470, effective 3/10/60, filed 3/23/60.]

WAC 296-09-480 Expert or opinion testimony and testimony based on economic or statistical data—Written sworn statements. That the hearing examiner or other appropriate officer, in all classes of cases in which it is practicable and permissible, require, and when not so permissible, make every effort to bring about by voluntary submission, that all direct opinion or expert testimony and all direct testimony based on economic or statistical data be reduced to written sworn statements, and, together with the exhibits upon which based, be submitted to him and to the other parties to the proceeding by a date determined by the hearing officer and fixed a reasonable time in advance of the hearing; and that such sworn statements be acceptable as evidence upon formal offer at the hearing, subject to objection on any ground except that such sworn statements shall not be subject to challenge because the testimony is not presented orally, and provided that witnesses making such statements shall not be subject to cross-examination unless a request is made sufficiently in advance of the hearing to insure the presence of the witnesses.

[Rule .08.480, effective 3/10/60, filed 3/23/60.]

WAC 296-09-490 Expert or opinion testimony and testimony based on economic or statistical data—Supporting data. That the hearing examiner or other appropriate officer, in his discretion but consistent with the rights of the parties, cause the parties to make available for inspection in advance of the hearing, and for purposes of cross-examination at the hearing, the data underlying statements and exhibits submitted in accordance with WAC 296-09-480, but, wherever practicable that he restrict to a minimum the placing of such data in the record.

[Rule .08.490, effective 3/10/60, filed 3/23/60.]

WAC 296-09-500 Expert or opinion testimony and testimony based on economic or statistical data—Effect of noncompliance with WAC 296-09-470 or 296-09-480. Whenever the manner of introduction of opinion or expert testimony or testimony based on economic or statistical data is governed by requirements fixed under the provisions of WAC 296-09-470 or 296-09-480, such testimony not submitted in accordance with the relevant requirements shall not be received in evidence in the absence of a clear showing that the offering party had good cause for his failure to conform to such requirements.

[Rule .08.500, effective 3/10/60, filed 3/23/60.]

WAC 296-09-510 Continuances. Any party who desires a continuance shall, immediately upon receipt of notice of hearing, or as soon thereafter as requiring such continuance come to his knowledge, notify the board of boiler rules or its designated hearing officer of said desire, stating in detail the reasons why such continuance is necessary. The board or its designated hearing officer, in passing upon a request for continuance, shall consider whether such request was promptly and timely made. For good cause shown the board or its designated hearing officer may grant such a continuance and may at any time order a continuance upon its or his own motion. During a hearing, if it appears in the public interest or in the interest of justice that further testimony or argument should be received, the examiner or other officer conducting the hearing may in his discretion continue the hearing and fix a date for introduction of additional evidence or presentation of argument. Such oral notice shall constitute final notice of such continued hearing.

[Rule .08.510, effective 3/10/60, filed 3/23/60.]

WAC 296-09-520 Rules of evidence—Admissibility criteria. Subject to the other provisions of these rules, all relevant evidence is admissible which, in the opinion of the officer conducting the hearing, is the best evidence reasonably obtainable, having due regard for its necessity, availability and trustworthiness. In passing upon the admissibility of evidence, the officer conducting the hearing shall give consideration to, but shall not be bound to follow, the rules of evidence governing civil proceedings in matters not involving trial by jury, in the superior court of the state of Washington.

[Rule .08.520, effective 3/10/60, filed 3/23/60.]

WAC 296-09-530 Rules of evidence—Tentative admission—Exclusion—Discontinuance—Objections. When objection is made to the admissibility of evidence such

evidence may be received subject to a later ruling. The officer conducting the hearing may, in his discretion, either with or without objection, exclude inadmissible evidence or order cumulative evidence discontinued. Parties objecting to the introduction of evidence shall state the precise grounds of such objection at the time such evidence is offered.

[Rule .08.530, effective 3/10/60, filed 3/23/60.]

WAC 296-09-540 Petitions for rule making, amendment or repeal—Who may petition. Any interested person may petition the board of boiler rules requesting the promulgation, amendment, or repeal of any rule.

[Rule .08.540, effective 3/10/60, filed 3/23/60.]

WAC 296-09-550 Petitions for rule making, amendment or repeal—Requisites. Where the petition requests the promulgation of a rule, the requested or proposed rule must be set out in full, the petition must also include all the reasons for the requested rule together with briefs of any applicable law. Where the petition requests the amendment or repeal of a rule presently in effect, the rule or portion of the rule in question must be set out as well as a suggested amended form, if any. The petition must include all reasons for the requested amendment or repeal of the rule.

[Rule .08.550, effective 3/10/60, filed 3/23/60.]

WAC 296-09-560 Petitions for rule making, amendment or repeal—Agency must consider. All petitions shall be considered by the board of boiler rules and the board may, in its discretion, order a hearing for the further consideration and discussion of the requested promulgation, amendment, repeal or modification of any rule.

[Rule .08.560, effective 3/10/60, filed 3/23/60.]

WAC 296-09-570 Petitions for rule making, amendment or repeal—Notice of disposition. The board of boiler rules shall notify the petitioning party within a reasonable time of the disposition, if any, of the petition.

[Rule .08.570, effective 3/10/60, filed 3/23/60.]

WAC 296-09-580 Declaratory rulings. (1) As prescribed by RCW 34.04.080, any interested person may petition the board of boiler rules for a declaratory ruling. The board shall consider the petition and within a reasonable time shall:

(a) Issue a nonbinding declaratory ruling; or

(b) Notify the person that no declaratory ruling is to be issued; or

(c) Set a reasonable time and place for a hearing or the submission of written evidence upon the matter, and give reasonable notification to the person of the time and place for such hearing or submission and of the issues involved.

(2) If a hearing is held or evidence is submitted as provided in subsection (c), the department or the board shall within a reasonable time:

(a) Issue a binding declaratory rule; or

(b) Issue a nonbinding declaratory ruling; or

(c) Notify the person that no declaratory ruling is to be issued.

[Rule .08.580, effective 3/10/60, filed 3/23/60.]

WAC 296-09-590 Forms. (1) Any interested person petitioning the board of boiler rules thereof for a declaratory ruling pursuant to RCW 34.04.080, shall generally adhere to the following form for such purpose.

At the top of the page shall appear the wording "Before the board of boiler rules." On the left side of the page below the foregoing the following caption shall be set out: "In the matter of the petition of (name of petitioning party) for a declaratory ruling." Opposite the foregoing caption shall appear the word "petition."

The body of the petition shall be set out in numbered paragraphs. The first paragraph shall state the name and address of the petitioning party. The second paragraph shall state all rules or statutes that may be brought into issue by the petition. Succeeding paragraphs shall set out the state of facts relied upon in form similar to that applicable to complaints in civil actions before the superior courts of this state. The concluding paragraphs shall contain the prayer of the petitioner. The petition shall be subscribed and verified in the manner prescribed for verification of complaints in the superior courts of this state.

The original and two legible copies shall be filed with the agency. Petitions shall be on white paper, either 8 1/2" x 11" or 8 1/2" x 13" in size.

(2) Any interested person petitioning the board of boiler rules thereof requesting the promulgation, amendment or repeal of any rules shall generally adhere to the following form for such purpose.

At the top of the page shall appear the wording, "Before the board of boiler rules." On the left side of the page below the foregoing the following caption shall be set out: "In the matter of the petition of (name of petitioning party) for (state whether promulgation, amendment or repeal) of rule (or rules)." Opposite the foregoing caption shall appear the word "petition."

The body of the petition shall be set out in numbered paragraphs. The first paragraph shall state the name and address of the petitioning party and whether petitioner seeks the promulgation of new rule or rules, or amendment or repeal of existing rule or rules. The second paragraph, in case of a proposed new rule or amendment of an existing rule, shall set forth the desired rule in its entirety. Where the petition is for amendment, the new matter shall be underscored and the matter proposed to be deleted shall appear in double parentheses. Where the petition is for repeal of an existing rule, such shall be stated and the rule proposed to be repealed shall either be set forth in full or shall be referred to by agency rule number. The third paragraph shall set forth concisely the reasons for the proposal of the petitioner and shall contain a statement as to the interest of the petitioner in the subject matter of the rule. Additional numbered paragraphs may be used to give full explanation of petitioner's reason for the action sought.

Petitions shall be dated and signed by the person or entity named in the first paragraph or by his attorney. The original and two legible copies of the petition shall be filed with the agency. Petitions shall be on white paper, either 8 1/2" x 11" or 8 1/2" x 13" in size.

[Rule .08.590, effective 3/10/60, filed 3/23/60.]

Chapter 296-13 WAC
PRACTICE AND PROCEDURE—ELECTRICAL BOARD

WAC

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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-13-045 Duties of examining board. [Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-045, filed 8/27/84.] Repealed by 88-16-002 (Order 88-15), filed 7/21/88. Statutory Authority: RCW 19.28.060.

296-13-070 Solicitation of business unethical. [§ VI, filed 10/15/65.] Repealed by 84-18-009 (Order 84-16), filed 8/27/84. Statutory Authority: RCW 19.28.123 and 19.28.590.

296-13-120 Administrative Procedure Act. [§ XI, filed 10/15/65.] Repealed by 84-18-009 (Order 84-16), filed 8/27/84. Statutory Authority: RCW 19.28.123 and 19.28.590.

WAC 296-13-001 Foreword. (1) The electrical law, chapter 19.28 RCW, establishes the electrical board and fixes their responsibilities. The board's principal functions are: To advise the department in adopting rules with respect to electrical installations and appliances; to act as a board of appeals in contested cases regarding the application or interpretation of installation, alteration or maintenance standards prescribed in the electrical law, chapter 19.28 RCW or chapter 296-46 WAC, Safety standards—Installing electric wires and equipment—Administrative rules; to act as an appeals board in contested cases as provided for in chapter 296-402 WAC, Electrical testing laboratory accreditation; to act as an appeals board in contested cases as provided for in chapter 296-403 WAC, Amusement rides or structures; to establish tests and test procedures for electricians and administrators; and to act as a board of appeals in contested cases that have been heard by the office of administrative hearings regarding the revocation or suspension of an electrical contractor's license or an electrician's or administrator's certificate.

(2) The purpose of this chapter is to provide a uniform procedure for persons, firms, corporations, or other entities to: (a) Communicate with the department about rules that should be adopted, amended, or repealed; (b) appeal a decision of the department revoking or suspending a contractor's license, an electrician's certificate, or an administrator's certificate; (c) appeal a decision of the department suspending, revoking, refusing to renew, or reducing or refusing to renew the product categories for an electrical testing laboratory under chapter 296-402 WAC; and (d) appeal a decision of the department denying or revoking an amusement ride or structure operating permit or ordering the cessation of the operation of an amusement ride or structure, or suspending, revoking, or refusing to issue an amusement ride inspector certificate of competency under chapter 296-403 WAC.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-001, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-001, filed 8/27/84; Foreword, filed 10/15/65.]

WAC 296-13-010 Definitions. Whenever used in this chapter, the words:

(1) "Administrative law judge" means an administrative law judge appointed pursuant to chapter 34.12 RCW.

(2) "Board" means the electrical board established pursuant to RCW 19.28.065. The term "board" also includes an administrative law judge or a board member appointed by the board to hear a contested case.

(3) "Chapter" means chapter 296-13 WAC.

(4) "Contested case" means a contested case as defined by RCW 34.04.010(3). It includes appeals from decisions or orders of the department: (a) Revoking or suspending an electrical contractor's license or an administrator's or electrician's certificate; (b) revoking or suspending or refusing to renew an electrical testing laboratory accreditation or product categories; and (c) denying or revoking an amusement ride or structure operating permit, ordering the cessation of the operation of an amusement ride or structure or suspending, revoking, or refusing to issue an amusement ride inspector certificate of competency. It also includes challenges to the department's interpretation of the installation requirements of chapter 19.28 RCW and chapter 296-46 WAC and appeals of a citation issued by the department for violations of chapter

19.28 or 67.42 RCW, or chapter 296-46, 296-401, 296-402, or 296-403 WAC.

(5) "Department" means the department of labor and industries of the state of Washington.

(6) "Director" means the director of the department.

(7) "Proceeding" means any matter before the board other than a contested case.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-010, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-010, filed 8/27/84; Definitions, filed 10/15/65.]

WAC 296-13-020 Officers. In addition to the chairperson, the board shall elect from its members a vice chairperson who shall perform all functions of the chairperson in his or her absence. The department chief electrical inspector serves as secretary to the board.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-020, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-020, filed 8/27/84; § I, filed 10/15/65.]

WAC 296-13-030 Internal management. The board adopts *Roberts' Rules of Order,* revised as its rules of procedure.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-030, filed 8/27/84; § II, filed 10/15/65.]

WAC 296-13-035 Dates of meetings. (1) The board shall hold regular meetings on the last Thursday of January, April, July, and October of each year.

(2) The director or the chairperson of the board may call a special meeting at any other time.

(3) Each board member and the board secretary shall be notified in writing of the date, time, and place of each regular meeting and special meeting.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-035, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-035, filed 8/27/84.]

WAC 296-13-040 Duties of the board. (1) The board shall study proposed rules submitted to it by the department and shall make recommendations concerning their adoption.

(2) The board shall develop and submit for consideration to the department administrative procedures, organizational plans, and rules relating to improving the functions of the electrical section.

(3) The board shall at each meeting consider any written proposals made by any persons, firms, corporations, or other entities for electrical rules or for changes in administrative procedures of the electrical section.

(4) The board shall hear formal appeals in matters under its jurisdiction in contested cases involving a ruling or interpretation by the department of the provisions of chapter 19.28 RCW and chapters 296-46, 296-402, and 296-403 WAC.

(5) The board shall consider proposed expenditures from the electrical fund.

(6) The board shall establish tests and test procedures for journeyman and specialty electricians and for general and specialty administrators.

(7) The board will hear informal appeals in matters under its jurisdiction, including those from persons who desire to contest:

(a) Decisions of the department that they do not qualify to take an examination;

(b) The loss of a certificate because of a failure timely to renew the certificate; and

(c) Grades given on examinations for administrator or electrician certificates.

(8) The board will issue a decision on formal appeals that have been heard by an administrative law judge in contested cases involving an order or decision of the department as provided for in RCW 19.28.350 and WAC 296-401-170 that revokes or suspends an electrical contractor's license, an administrator's certificate, or an electrician's certificate, or lessens the number of hours of work a trainee electrician has accumulated.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-040, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-040, filed 8/27/84; § III, filed 10/15/65.]

WAC 296-13-050 Hearings. (1) The board will grant a formal hearing on contested cases. It will grant an informal hearing on all other proceedings that are within its jurisdiction.

(2) A person, firm, corporation, or other entity that desires a formal hearing on a contested case must file a written appeal of the department's decision, order, or interpretation with the secretary of the board. The written appeal must state the decision, order, or interpretation of the department that is being appealed and the relief that is desired. An appeal of a decision or order of the department must be filed within fifteen days of the day the appellant received notice of the department's decision, order, or interpretation.

(3) The board may delegate to an administrative law judge or a board member the responsibility to preside over the hearing and to issue a proposed decision and order. If the board does so, the administrative law judge or a board member shall set the time and place for the hearing. If the board retains the responsibility to preside over the hearing, the board shall set the time and place.

(4) The board shall assign to the office of administrative hearings each appeal of the department's decision, order citation, or interpretation regarding an electrical contractor license, administrator certificate, electrician certificate, or training certificate as provided for in RCW 19.28.350 and 19.28.620, or citation for the sale or exchange of electrical equipment associated with spas, hot tubs, swimming pools, and hydromassage bathtubs that does not bear the product certification mark of an electrical products testing laboratory that has been accredited by the department. The board shall be allowed a minimum of twenty days to review the proposed decision of the administrative law judge and shall issue its decision and order no later than the next regularly scheduled board meeting.

(5) A person, firm, corporation, or other entity desiring an informal hearing on a proceeding other than a contested case shall file a written request to that effect with the secretary of the board. The written request should describe con-

cisely the matters or proposals on which the informal hearing is requested and the relief that is desired.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-050, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-050, filed 8/27/84; § IV, filed 10/15/65.]

WAC 296-13-052 Hearing before administrative law judge or a board member. An administrative law judge or a board member to whom the board has delegated the authority to preside over a hearing in a contested case may exercise all powers the board could exercise in the course of the hearing. After the hearing, the administrative law judge or a board member shall serve on each party and file with the board a proposed decision.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-052, filed 8/27/84.]

WAC 296-13-053 Appeal of proposed decision to board. A party to a contested case may appeal a proposed decision to the full board within thirty days after a copy of the proposed decision is served upon that party. The appeal shall be filed with the board as provided in WAC 296-13-057. If no appeal is filed, the proposed decision becomes final with no further action on the part of the board.

The notice of appeal must specify the contentions of the appealing party, and must specify to which conclusions of law and findings of fact the party takes exception.

The appeal shall be based on the record of the hearing. The board shall not grant a hearing de novo.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-053, filed 8/27/84.]

WAC 296-13-055 Quorum. A majority of the board constitutes a quorum for purposes of making a decision in a contested case. If a majority does not attend a hearing on a contested case, the board may either continue the hearing to a date certain or may hear the testimony and arguments. If the board hears the testimony and arguments, the members of the board who are absent may make their decisions after hearing the tape recording or reading the transcript, of the hearing.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-055, filed 8/27/84.]

WAC 296-13-057 Place and time of filing. A paper that must be filed with the board shall be filed only at the Office of the Chief Electrical Inspector, Electrical Section, 805 Plum Street S.E., P.O. Box 9519, Olympia, WA 98504-9519. The paper may be filed by ordinary mail, certified or registered mail, telegram, or by personal delivery. The date of filing is the date the paper is actually received in the office of the chief electrical inspector.

[Statutory Authority: RCW 19.28.060. 88-16-002 (Order 88-15), § 296-13-057, filed 7/21/88. Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-057, filed 8/27/84.]

WAC 296-13-060 Appearance and practice before board. No person may appear as a representative in a contested case before the board other than the following:

(1) Attorneys at law qualified to practice before the supreme court of the state of Washington.

(2) Attorneys at law qualified to practice before the highest court of record of another state, if the attorneys at law of the state of Washington are permitted to appear as representatives before administrative agencies of the other state, and if not otherwise prohibited by Washington law.

(3) An owner, officer, partner, or full-time employee of a firm, association, organization, partnership, or corporation who appears for the firm, association, organization, partnership, or corporation.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-060, filed 8/27/84; § V, filed 10/15/65.]

WAC 296-13-080 Standards of ethical conduct. All persons appearing in proceedings or contested cases before the board as a representative shall conform to the standards of ethical conduct required of attorneys before the courts of Washington. If a person does not conform to these standards, the board may decline to permit the person to appear as a representative in any proceeding or contested case before the board.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-080, filed 8/27/84; § VII, filed 10/15/65.]

WAC 296-13-090 Appearance by former employee. No former employee of the board, the department, or the attorney general's staff may at any time after severing his or her employment with the board, the department, or the attorney general appear as a representative for another party in any proceeding or contested case in which he or she previously took an active part as a representative of the board or the department.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-090, filed 8/27/84; § VIII, filed 10/15/65.]

WAC 296-13-100 Former employee as expert witness. Except with the written permission of the board, no former employee of the board or the department shall appear, after severing his or her employment with the board or the department, as an expert witness for another party in any proceeding or contested case in which he or she previously took an active part in the investigation as a representative of the board or the department.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-100, filed 8/27/84; § IX, filed 10/15/65.]

WAC 296-13-110 Computation of time. In computing any period of time prescribed or allowed by any applicable statute or rule, the day of the act, event, or default after which the designated period of time begins to run is not to be included. The last day of the period so computed is to be included, unless it is a Saturday, Sunday, or legal holiday, in which case the period runs until the next day that is not a Saturday, Sunday, or holiday.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-110, filed 8/27/84; § X, filed 10/15/65.]

WAC 296-13-130 Notice and opportunity for hearing. (1) In any contested case the board shall serve all parties with a notice and opportunity for hearing not less than twenty days before the date set for hearing. The notice shall state the

time and place of the hearing and the issues involved, as required by RCW 34.04.090.

(2) In any other proceeding before the board, the board shall give reasonable notice and an opportunity to be heard by mail or by telephone not less than two days before the date set for the informal hearing.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-130, filed 8/27/84.]

WAC 296-13-140 Service of process—By whom served. The board shall cause to be served all orders, notices, and other papers it issues that pertain to a contested case, together with any other papers it is required by law to serve. Every other paper that must be served shall be served by the party that files it.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-140, filed 8/27/84.]

WAC 296-13-150 Service of process—Upon whom served. All papers served by either the board or a party shall be served upon all counsel of record at the time the paper is served and upon parties not represented by counsel or upon their representatives designated by them or by law. Any counsel that enters an appearance after the beginning of the contested case shall notify all other counsel then of record and all parties not represented by counsel of his or her appearance.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-150, filed 8/27/84.]

WAC 296-13-160 Service of process upon parties. The final order, and any other paper the board must serve upon a party, shall be served upon each party or upon his or her representative. If the board serves a paper on a party personally, the board shall furnish a copy to the representative of record of the party. Service on the counsel or other representative representing a party constitutes service on the party.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-160, filed 8/27/84.]

WAC 296-13-170 Method of service of process. Papers shall be served personally, by registered or certified mail, or by telegraph.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-170, filed 8/27/84.]

WAC 296-13-180 When service of process is complete. Service upon a party shall be regarded as complete: By mail, upon deposit in the United States mail properly stamped and addressed; by telegraph, when deposited with a telegraph company properly addressed and with charges prepaid.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-180, filed 8/27/84.]

WAC 296-13-190 Subpoenas. (1) In a contested case, upon application of a party or a representative, the board shall issue to the party subpoenas requiring the attendance and testimony of witnesses or the production of evidence in the contested case. The board may condition the issuance of the subpoenas upon a showing of the general relevance and reasonable scope of the testimony or evidence sought. An attorney of a party in a contested case may issue subpoenas under his or her own authority.

(2) Every subpoena shall state the name of the board and the title of the proceeding, and shall command the person to whom it is directed to attend at a specified time and place and give testimony or to produce designated books, documents, or things under his or her control.

(3) Attendance of witnesses and production of evidence may be required from any place in the state of Washington, at any designated place of hearing.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-190, filed 8/27/84.]

WAC 296-13-200 Subpoenas—Service and fees. (1) Unless the service of a subpoena is acknowledged on its face by the person subpoenaed, service shall be made by delivering a copy of the subpoena to the person and by tendering him or her on demand the fees for one day's attendance and the mileage allowed by law.

(2) Witnesses summoned before the agency shall be paid, by the party at whose instance they appear, the same fees and mileage that are paid to witnesses in the superior courts of the state of Washington.

(3) The person serving the subpoena shall make proof of service by filing the subpoena and the required return, affidavit, or acknowledgement of service with the board. Failure to make proof of service does not affect the validity of the service.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-200, filed 8/27/84.]

WAC 296-13-210 Quashing of subpoenas. Upon motion made at or before the time specified in the subpoena for compliance, by the person to whom the subpoena is directed and upon notice to the party to whom the subpoena was issued, the board may (1) quash or modify the subpoena if it is unreasonable or requires evidence not relevant to any matter in issue, or (2) condition denial of the motion upon just and reasonable conditions.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-210, filed 8/27/84.]

WAC 296-13-220 Enforcement of subpoenas. Upon application and for good cause shown a party may seek judicial enforcement of subpoenas that have been issued and that have not been quashed.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-220, filed 8/27/84.]

WAC 296-13-230 Right to take depositions and interrogatories in contested cases. (1) A party may take the testimony of any person, including a party, by deposition upon oral examination or written interrogatories for use as evidence in a contested case, except that leave of the deponent must be obtained if a proponent serves notice of the deposition or interrogatories on the deponent within twenty days after the filing of an appeal. The attendance of the deponent may be compelled by the use of a subpoena. Depositions

shall be taken only in accordance with this rule and the rule on subpoenas.

(2) Unless the board otherwise orders, the deponent may be examined regarding any matter that is relevant to the subject matter involved in the contested case and is not privileged.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-230, filed 8/27/84.]

WAC 296-13-240 Officer before whom depositions are taken. Within the United States, or within a territory or insular possession subject to the dominion of the United States, depositions shall be taken before an officer authorized to administer oaths by the laws of the state of Washington or of the place where the examination is held. Within a foreign country, depositions shall be taken before a secretary of an embassy or legation, consul general, vice consul or consular agent of the United States, or before a person designated by the board or agreed upon by the parties by stipulation in writing filed with the board. Except by stipulation, no deposition shall be taken before a person who is a party or the privy of a party, or a privy of any counsel of a party, or who is financially interested in the contested case.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-240, filed 8/27/84.]

WAC 296-13-250 Notice of depositions. A party that desires to take the deposition of any person upon oral examination shall give reasonable notice of not less than three days in writing to the board and all parties. The notice shall state the time and place for taking the deposition and the name and address of each person to be examined, if known. If the name is not known, the notice shall contain a general description sufficient to identify him or her or the particular class or group to which he or she belongs. On motion of a party upon whom the notice is served, the board may, for cause shown, enlarge or shorten the time. If the parties so stipulate in writing, depositions may be taken before any person, at any time or place, upon any notice, and in any manner.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-250, filed 8/27/84.]

WAC 296-13-260 Depositions and interrogatories in contested cases—Protection of parties and deponents. After notice is served for taking a deposition or of written interrogatories, upon the board's own motion or upon motion made by any party or by the deponent and upon notice and for good cause shown, the board may order that: (1) The deposition or interrogatories shall not be taken, (2) the deposition may be taken only at some designated place other than that stated in the notice, (3) the deposition may be taken only on written interrogatories, (4) the examination shall be limited to certain matters, (5) the examination shall be held with no one present except the parties to the action and their officers or counsel, (6) after being sealed, a deposition shall be opened only by order of the board, (7) business secrets or secret processes, developments, or research need not be disclosed, or (8) the parties shall simultaneously file specified documents, or information enclosed in sealed envelopes to be opened as directed by the board. The board may make any other order that justice requires to protect the party or witness from annoyance, embarrassment, or oppression. At any time during the taking of a deposition, on motion of any party or of the deponent and upon a showing that the examination is being conducted in bad faith or in a manner as unreasonably to annoy, embarrass, or oppress the deponent or party, the board may order the officer conducting the examination to cease taking the deposition, or may limit the scope and manner of the taking of the deposition as provided in subsections (1) through (8) of this section. If the order ends the examination, it shall be resumed thereafter only upon the order of the board. Upon demand of the objecting party or deponent, the taking of the deposition shall be suspended for the time necessary to move for an order.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-260, filed 8/27/84.]

WAC 296-13-270 Oral examination and cross-examination in depositions. Examination and cross-examination during oral examination shall proceed as at an oral hearing. In lieu of participating in the oral examination, a party may transmit written interrogatories to the person taking the disposition who, without previously disclosing them to any person, and after the direct testimony is complete, shall propound them seriatim to the deponent and record the answers verbatim.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-270, filed 8/27/84.]

WAC 296-13-280 Recording of depositions. The person before whom the deposition is to be taken shall put the deponent on oath and shall personally, or by someone acting under his or her direction and in his or her presence, record the testimony. Objections to the notice, the qualifications of the person taking the deposition, the manner of taking the deposition, to the evidence presented, or to the conduct of the person taking the deposition or of any party, shall be noted in the record. All objections by any party not made are waived.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-280, filed 8/27/84.]

WAC 296-13-290 Depositions in contested cases—Signing attestation and return. (1) When the testimony of a deposition is fully transcribed, the deposition shall be submitted to the deponent for examination and shall be read to or by him or her, unless the examination and reading are waived by the deponent and by the parties. Any changes in form or substance that the deponent desires to make shall be entered upon the deposition by the person taking the deposition with a statement of the reasons given by the deponent for making them. The deposition shall then be signed by the deponent, unless the parties by stipulation waive the signing or the deponent is ill or cannot be found or refuses to sign. If the deponent does not sign the deposition, the person taking the deposition shall sign it and state on the record whether the deponent did not sign because of a waiver, an illness or absence, or a refusal to sign together with the reason, if any, given for a refusal. The deposition may then be used as fully as though signed, unless on a motion to suppress, the board

holds that the reasons given for the refusal to sign require rejection of the deposition in whole or in part.

(2) The person taking the deposition shall certify on the deposition that the deponent was duly sworn by him or her and that the deposition is a true record of the testimony given by the witness. He shall then securely seal the deposition in an envelope indorsed with the title of proceeding and marked "Deposition of (here insert name of witness)" and shall promptly send it by registered or certified mail to the board, for filing. The party taking the deposition shall give prompt notice of its filing to all other parties.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-290, filed 8/27/84.]

WAC 296-13-300 Use and effect of depositions. Subject to rulings by the board upon objections, a deposition taken and filed as provided in WAC 296-13-290 will not become a part of the record in the proceeding until received in evidence by the board upon its own motion or the motion of a party. Except by agreement of the parties or ruling of the board, a deposition will be received only in its entirety. A party does not make a party, or the privy of a party, or any hostile witness its witness by taking his or her deposition. A party may rebut any relevant evidence contained in a deposition whether introduced by him or her or by any other party.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-300, filed 8/27/84.]

WAC 296-13-310 Fees of deponents. Deponents are entitled to the same fees as are paid for similar services in the superior courts of the state of Washington. The fees shall be paid by the party at whose instance the depositions are taken.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-310, filed 8/27/84.]

WAC 296-13-320 Submission of interrogatories. If a deposition is taken upon written interrogatories, the party offering the testimony shall consecutively number each interrogatory, file them with the board, and serve them on all parties and the person who is to answer them with a notice stating the name and address of the person who is to answer them.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-320, filed 8/27/84.]

WAC 296-13-330 Attestation and return of interrogatories. The person before whom the interrogatories are answered shall (1) certify under his or her official signature and seal that the deponent was duly sworn by him or her, that the interrogatories and answers are a true record of the deponent's testimony, and (2) promptly file the original copy of the deposition and exhibits with his or her attestation to the board, serve one copy on the counsel who submitted the interrogatories, and serve a copy on the deponent and on each other party.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-330, filed 8/27/84.]

WAC 296-13-340 Official notice—Matters of law. The board, upon request made before or during a hearing, will officially notice:

(1) **Federal law.** The Constitution; congressional acts, resolutions, records, journals, and committee reports; decisions of federal courts and administrative agencies; executive orders and proclamations; and all rules, orders, and notices published in the Federal Register;

(2) **State law.** The Constitution of the state of Washington, acts of the legislature, resolutions, records, journals, and committee reports; decisions of administrative agencies of the state of Washington, and executive orders and proclamations by the governor; and all rules, orders, and notices published in the Washington State Register.

(3) **Governmental organization.** The organization, territorial limitations, officers, departments, and general administration of the governments of the state of Washington, the United States, the several states, and foreign nations.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-340, filed 8/27/84.]

WAC 296-13-350 Official notice—Material facts. (1) In the absence of controverting evidence, the board, upon request made before or during a hearing, may officially notice:

(a) The pendency of, the issues and position of the parties in, and the disposition of any proceeding then pending before or previously concluded by the board.

(b) General customs and practices followed in the transaction of business;

(c) Facts so generally and widely known to all well-informed persons as not to be subject to reasonable dispute, or specific facts that are capable of immediate and accurate demonstration by resort to accessible sources of generally accepted authority, including facts stated in any publication authorized or permitted by law to be made by any federal or state officer, department, or agency; and

(d) Matters within the technical knowledge of the board as a body of experts, or within the scope of its statutory duties, responsibilities, or jurisdiction.

(2) At any prehearing conference, or a hearing, or argument, a party may request, or the board may suggest, that official notice be taken of a material fact, which shall be stated on the record. A party or the board may also make such a request or suggestion by written notice, or in any pleading, motion, memorandum, or brief, served upon all parties, at any time before a final decision.

(3) If an initial or final decision of the board rests in whole or in part upon official notice of a material fact, the fact shall be clearly stated in the decision. In determining whether to take official notice of material facts, the board may consult any source of pertinent information, whether or not it is admissible under the rules of evidence.

(4) A party may controvert a request or a suggestion that official notice of a material fact be taken. If a decision is stated to rest in whole or in part upon official notice of a material fact that a party has not had a prior opportunity to controvert, the party may controvert the fact by exception if the decision is a proposed decision, or by a petition for reconsideration if the decision is a final decision. The controver-

sion shall concisely and clearly set forth the sources, authority, and other data relied upon to show the existence or nonexistence of the material fact assumed or denied in the decision.

(5) Nothing herein shall be construed to preclude the board from using its experience, technical competence, and specialized knowledge in evaluating the evidence presented to them.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-350, filed 8/27/84.]

WAC 296-13-360 Presumptions. Upon proof of the predicate facts specified in this section by clear and convincing evidence, and without substantial dispute, the board, with or without prior request or notice, may make the following presumptions, where consistent with all surrounding facts and circumstances:

(1) That a fact of a continuous nature, proved to exist at a particular time, continues to exist as of the date of the presumption, if the fact is one that usually exists for at least that period of time;

(2) That persons or objects of the same name and description are identical;

(3) That mail matter, communications, express, or freight that are properly addressed, marked, billed, and delivered as appropriate to the post office, telegraph, cable or radio company, or authorized common carrier of property, and for which with all postage, tolls, or charges are properly prepaid, is or has been delivered to the addressee or consignee in the ordinary course of business;

(4) That a fact exists or does not exist, upon proof of the existence or nonexistence of another fact that, in the ordinary and usual course of affairs, usually and regularly coexists with the fact presumed;

(5) That a person for whom an act is done or to whom a transfer is made has, does, or will accept the act or transfer where it is clearly in his or her own self-interest so to do;

(6) That evidence, with respect to a material fact which in bad faith is destroyed, eloigned, suppressed, or withheld by a party in control of the fact, would, if produced, corroborate the evidence of the adversary party with respect to the fact.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-360, filed 8/27/84.]

WAC 296-13-370 Stipulations and admissions of record. The existence or nonexistence of a fact, as made or agreed in a stipulation or in an admission of record, will be conclusively presumed against any party bound by the stipulation or admission, and no other evidence with respect to the fact will be received upon behalf of the party.

The stipulation or admission is binding upon the parties by whom it is made and their privies, and upon all other parties to the proceeding who do not expressly deny the existence or nonexistence of the fact, upon the making thereof, if made on the record at a prehearing conference, oral hearing, or oral argument, or by a writing filed and served upon all parties within five days after a copy of the stipulation or admission has been served upon them.

A party bound by a stipulation or admission of record at any time before the final decision may be permitted to withdraw it in whole or in part by showing to the satisfaction of the hearing officer of the agency that the stipulation or admission was made inadvertently or under a bona fide mistake of fact and that its withdrawal at the time proposed will not unjustly prejudice the rights of other parties to the proceeding.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-370, filed 8/27/84.]

WAC 296-13-380 Form and content of board decisions in contested cases. (1) Every proposed and final decision and order in a contested case shall:

(a) Contain the correct names of the board and the case;

(b) Name all parties and counsel in the case;

(c) State concisely the nature and background of the case; and

(d) Contain numbered findings of fact and conclusions of law.

(2) Whenever practical, (a) the conclusions of law shall include the reasons for and precedents supporting the particular order or remedy afforded; and (b) the conclusions and order shall refer to the appropriate laws and rules.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-380, filed 8/27/84.]

WAC 296-13-390 Definition of issues before hearing. In all contested cases the issues to be adjudicated shall be made as precise as possible, in order that the board may proceed promptly to conduct the hearing on relevant and material matter only.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-390, filed 8/27/84.]

WAC 296-13-400 Prehearing conference. (1) In a contested case the board, upon its own motion or the motion of one of the parties, may direct the parties to appear at a specified time and place for a conference to consider:

(a) The settlement or simplification of issues;

(b) The necessity of amendments to the pleadings;

(c) The possibility of obtaining stipulations, or admissions of facts and of documents;

(d) The limitation of the number of expert witnesses; or

(e) Other matters that may help dispose of the proceeding.

(2) The board shall make an order that recites the action taken at a prehearing conference and the agreements made by the parties as to any of the matters considered and that limits the issues for hearing to those not disposed of by admission or agreement. The order shall control the subsequent course of the contested case unless modified for good cause by a later order.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-400, filed 8/27/84.]

WAC 296-13-410 Submission of documentary evidence in advance. Where practicable the board may require that:

(1) All documentary evidence that is to be offered during a hearing, deposition, or prehearing conference be submitted to the board and to the other parties sufficiently in advance of

the taking of evidence to permit study and preparation of cross-examination and rebuttal evidence;

(2) Documentary evidence not submitted in advance, as required by subsection (1) of this section, be not received in evidence in the absence of a clear showing that the offering party had good cause for its failure to produce the evidence sooner;

(3) The authenticity of all documents submitted in advance, as required by subsection (1) of this section, be deemed admitted unless a written objection to admission is filed before the time for taking the evidence. A party will be permitted to challenge the authenticity at a later time upon a clear showing of good cause for failure to have filed a written objection.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-410, filed 8/27/84.]

WAC 296-13-420 Continuances. A party who wants a continuance shall, immediately upon receipt of notice of a hearing, prehearing conference, or deposition, or as soon thereafter as facts requiring a continuance come to his or her knowledge, notify the board of his or her desire, stating in detail the reasons why a continuance is necessary. A formal motion is not required. The board, in ruling on a request for continuance, shall consider whether the request was timely made. For good cause shown, the board may grant a continuance and may at any time order a continuance upon its own motion. During a hearing, if it appears in the public interest or in the interest of justice that further testimony or argument should be received, the board may continue the hearing. Oral notice of a continuance, given at a hearing, shall constitute final notice of the continuance.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-420, filed 8/27/84.]

WAC 296-13-430 Rules of evidence—Admissibility criteria. Subject to the other provisions of this chapter, all relevant evidence is admissible that, in the opinion of the board, is the best evidence reasonably obtainable, having due regard for its necessity, availability, and trustworthiness. In passing upon the admissibility of evidence, the board shall consider, but need not follow, the rules of evidence governing civil proceedings in the superior court of the state of Washington.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-430, filed 8/27/84.]

WAC 296-13-440 Rules of evidence—Tentative admission—Exclusion—Discontinuance—Objections. When a party objects to the admissibility of evidence, the evidence may be received subject to a later ruling. The board may, either with or without objection, exclude inadmissible evidence or order cumulative evidence discontinued. A party that objects to the introduction of evidence shall state the precise grounds of the objection at the time the evidence is offered.

[Statutory Authority: RCW 19.28.123 and 19.28.590. 84-18-009 (Order 84-16), § 296-13-440, filed 8/27/84.]

Chapter 296-14 WAC
INDUSTRIAL INSURANCE

WAC

296-14-100 Definition of voluntary retirement and no longer attached to the work force.
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296-14-900 Authority to use special assistant attorneys general.
296-14-910 Lists of special assistant attorneys general.
296-14-920 Qualifications of special assistant attorneys general.
296-14-930 Applying for special assistant attorney general.
296-14-940 Removal of special assistant attorneys general.
296-14-970 Worker's review of claim file.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-14-010 Reciprocal agreements—Industrial insurance. [Statutory Authority: RCW 51.32.110 and 51.32.190(6). 90-19-028, § 296-14-010, filed 9/12/90, effective 10/13/90. Statutory Authority: RCW 51.04.020(1). 84-06-018 (Order 84-3), § 296-14-010, filed 2/29/84; Order 74-29, § 296-14-010, filed 5/29/74, effective 7/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-14-015 Industrial insurance labor-management cooperation program. [Statutory Authority: 1991 c 172. 92-03-053, § 296-14-015, filed 1/13/92, effective 2/13/92.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-14-950 Appointment of attorney as special assistant. [Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-950, filed 3/31/88.] Repealed by 93-23-060, filed 11/15/93, effective 1/1/94. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304.

296-14-960 Limitations of appointment. [Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-960, filed 3/31/88.] Repealed by 93-23-060, filed 11/15/93, effective 1/1/94. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304.

WAC 296-14-100 Definition of voluntary retirement and no longer attached to the work force. (1) For the purpose of this title a claimant will be deemed to be voluntarily retired and no longer attached to the work force if all of the following conditions are met:

(a) The claimant is no longer receiving income, salary or wages from any gainful employment.

(b) The claimant has provided no evidence, if requested by the department or the self-insurer, of a bona fide attempt to return to gainful employment after retirement.

(2) Payment made by the worker or on his or her behalf in the form of premiums, for the purpose of continuation of life or medical insurance coverage, union dues or similar payments shall not constitute attachment to the work force.

(3) The claimants of new or reopened claims will not be deemed voluntarily retired if the injury or occupational disease was a proximate cause of the decision to retire and sever the attachment to the work force.

[Statutory Authority: RCW 51.32.060, 51.32.090, 51.32.160, 51.21.220(6) [51.32.220(6)] and 51.32.240 (1), (2) or (3). 86-18-036 (Order 86-33), § 296-14-100, filed 8/28/86.]

WAC 296-14-150 Definition of gainful employment for wage. Gainful employment for wages for the purposes of RCW 51.32.160 shall mean performing work at any regular gainful occupation for income, salary or wages.

[Statutory Authority: RCW 51.32.060, 51.32.090, 51.32.160, 51.21.220(6) [51.32.220(6)] and 51.32.240 (1), (2) or (3). 86-18-036 (Order 86-33), § 296-14-150, filed 8/28/86.]

WAC 296-14-200 Waiver of recovery for worker compensation benefits overpayments. Whenever the director determines whether to exercise the discretion granted by RCW 51.32.240 (1), (2) or (3) or 51.32.220(6) the following shall apply:

(1) The decision of the director shall apply to the state fund or to the self-insurer, as the case may be.

(2) In the case of recoupment of an overpayment from any future payments, the director will entertain a request to exercise his or her discretion to waive recovery up to sixty days after communication of the order and/or notice to the recipient that benefits are being withheld to satisfy the previous overpayment.

(3) A finding by the director that recovery of an overpayment would be against equity and good conscience shall be required before the overpayment can be waived in whole or in part. The director shall consider the following factors and any other factors relevant to the particular case:

(a) Whether the claimant was without fault in applying for and accepting benefits which gave rise to the overpayment;

(b) Whether recovery of the overpayment, in whole or in part, would defeat the purposes of Title 51 RCW;

(c) Whether the claimant reasonably relied upon the benefits, or notice that such benefits would be paid and relinquished a valuable right or changed his or her position for the worse;

(d) Whether the claimant reasonably relied upon misinformation from an official source (i.e., a representative of the department or self-insurer, as the case may be) in accepting the benefit payment which gave rise to the overpayment.

(4) The claimant's application for waiver of an overpayment contemplated under RCW 51.32.240 (1), (2), or (3), or 51.32.220(6) shall clearly set forth the reason(s) that he or she believes that recovery of the overpayment in whole or in part, as the case may be, is against equity and good conscience.

[Statutory Authority: RCW 51.32.060, 51.32.090, 51.32.160, 51.21.220(6) [51.32.220(6)] and 51.32.240 (1), (2) or (3). 86-18-036 (Order 86-33), § 296-14-200, filed 8/28/86.]

WAC 296-14-300 Mental condition/mental disabilities. (1) Claims based on mental conditions or mental disabilities caused by stress do not fall within the definition of an occupational disease in RCW 51.08.140.

Examples of mental conditions or mental disabilities caused by stress that do not fall within occupational disease shall include, but are not limited to, those conditions and disabilities resulting from:

(a) Change of employment duties;

(b) Conflicts with a supervisor;

(c) Actual or perceived threat of loss of a job, demotion, or disciplinary action;

(d) Relationships with supervisors, coworkers, or the public;

(e) Specific or general job dissatisfaction;

(f) Work load pressures;

(g) Subjective perceptions of employment conditions or environment;

(h) Loss of job or demotion for whatever reason;

(i) Fear of exposure to chemicals, radiation biohazards, or other perceived hazards;

(j) Objective or subjective stresses of employment;

(k) Personnel decisions;

(l) Actual, perceived, or anticipated financial reversals or difficulties occurring to the businesses of self-employed individuals or corporate officers.

(2) Stress resulting from exposure to a single traumatic event will be adjudicated with reference to RCW 51.08.100.

[Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-14-300, filed 6/24/88.]

WAC 296-14-350 Claim allowance and wage determination in occupational disease cases. (1) The liable insurer in occupational disease cases is the insurer on risk at the time of the last injurious exposure to the injurious substance or hazard of disease during employment within the coverage of Title 51 RCW which gave rise to the claim for compensation. Such Title 51 RCW insurer shall not be liable, however, if the worker has a claim arising from the occupational disease that is allowed for benefits under the maritime laws or Federal Employees' Compensation Act.

(2) The compensation schedules and wage base for claims shall be based on the schedule in effect on the date of disease manifestation. Compensation shall be based on the monthly wage of the worker as follows:

(a) If the worker was employed at the time the disease required medical treatment or became totally or partially disabling, whichever occurred first, compensation shall be based on the monthly wage paid on that date regardless of whether the worker is employed in the industry that gave rise to the disease or in an unrelated industry.

(b) If the worker was not employed, for causes other than voluntary retirement, at the time the disease required medical treatment or became totally or partially disabling, whichever occurred first, compensation shall be based upon the last monthly wage paid.

(3) Benefits shall be paid in accordance with the schedules in effect on the date of manifestation. Manifestation is the date the disease required medical treatment or became totally or partially disabling, whichever occurred first, without regard to the date of the contraction of the disease or the date of filing the claim.

[Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-350, filed 11/15/93, effective 1/1/94. Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-14-350, filed 6/24/88.]

WAC 296-14-400 Reopenings for benefits. The director at any time may, upon the workers' application to reopen

for aggravation or worsening of condition, provide proper and necessary medical and surgical services as authorized under RCW 51.36.010. This provision will not apply to total permanent disability cases, as provision of medical treatment in those cases is limited by RCW 51.36.010.

The seven-year reopening time limitation shall run from the date the first claim closure becomes final and shall apply to all claims regardless of the date of injury. In order for claim closure to become final on claims where closure occurred on or after July 1, 1981, the closure must include documentation of medical recommendation, advice or examination. Such documentation is not required for closing orders issued prior to July 1, 1981. First closing orders issued between July 1, 1981, and July 1, 1985, shall for the purposes of this section only, be deemed issued on July 1, 1985.

The director shall, in the exercise of his or her discretion, reopen a claim provided objective evidence of worsening is present and proximately caused by a previously accepted asbestos-related disease.

In order to support a final closure based on medical recommendation or advice the claim file must contain documented information from a doctor, or nurse consultant (departmental) or nurse practitioner supervised by a doctor. The doctor or nurse practitioner may be in private practice, acting as a member of a consultation group, employed by a firm, corporation, or state agency.

For the purpose of this section, a "doctor" is defined in WAC 296-20-01002.

When a claim has been closed by the department or self-insurer for sixty days or longer, the worker must file a written application to reopen the claim. An informal written request filed without accompanying medical substantiation of worsening of the condition will constitute a request to reopen, but the time for taking action on the request shall not commence until a formal application is filed with the department or self-insurer as the case may be.

A formal application occurs when the worker and doctor complete and file the application for reopening provided by the department. Upon receipt of an informal request without accompanying medical substantiation of worsening of the worker's condition, the department or self-insurer shall promptly provide the necessary application to the worker for completion.

If, within seven years from the date the first closing order became final, a formal application to reopen is filed which shows by "sufficient medical verification of such disability related to the accepted condition(s)" that benefits are payable, the department, or the self-insurer, pursuant to RCW 51.32.210 and 51.32.190, respectively shall mail the first payment within fourteen days of receiving the formal application to reopen. If the application does not contain sufficient medical verification of disability, the fourteen-day period will begin upon receipt of such verification. If the application to reopen is granted, compensation will be paid pursuant to RCW 51.28.040. If the application to reopen is denied, the worker shall repay such compensation pursuant to RCW 51.32.240.

Applications for reopenings filed on or after July 1, 1988, must be acted upon by the department within ninety days of receipt of the application by the department or the self-insurer. The ninety-day limitation shall not apply if the worker files an appeal or request for reconsideration of the department's denial of the reopening application.

The department may, for good cause, extend the period in which the department must act for an additional sixty days. "Good cause" for such an extension may include, but not be limited to, the following:

(1) Inability to schedule a necessary medical examination within the ninety-day time period;

(2) Failure of the worker to appear for a medical examination;

(3) Lack of clear or convincing evidence to support reopening or denial of the claim without an independent medical examination;

(4) Examination scheduled timely but cannot be conducted and a report received in sufficient time to render a decision prior to the end of the ninety-day time period.

The department shall make a determination regarding "good cause" in a final order as provided in RCW 51.52.050.

The ninety-day limitation will not apply in instances where the previous closing order has not become final.

[Statutory Authority: RCW 51.32.190 and 51.32.210. 90-22-054, § 296-14-400, filed 11/5/90, effective 12/6/90. Statutory Authority: Chapters 34.04 [34.05], 51.04, 51.32 and 51.36 RCW. 90-04-007, § 296-14-400, filed 1/26/90, effective 2/26/90. Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-14-400, filed 6/24/88.]

WAC 296-14-410 Reduction, suspension, or denial of compensation as a result of noncooperation. In accordance with RCW 51.32.110, workers claiming benefits under this title are required to attend and cooperate at medical examinations and vocational evaluations requested by the department or self-insurer, to refrain from unsanitary or injurious practices which imperil or retard recovery, and to accept medical and surgical treatment reasonably essential for recovery from the industrial injury or occupational disease.

When a worker obstructs or delays recovery from the industrial injury or occupational disease or fails to attend or cooperate, without good cause, at scheduled examinations or evaluations, or engages in unsanitary or injurious practices, or refuses, without good cause, to undergo proper and necessary treatment, the department, or self-insurer upon approval of the department, may reduce, suspend, or deny benefits to the worker.

Actions of a worker's representative that result in refusal, obstruction, delay, or noncooperation will be imputed to the worker.

The department or self-insurer, upon approval of the department, may reduce, suspend, or deny benefits by any of the following means so long as the refusal, obstruction, delay, or noncooperation continues without good cause: Reduce current or future time-loss compensation by the amount of the charge incurred by the department or self-insurer for any examination, evaluation, or treatment which the worker fails to attend; reduce, suspend, or deny time-loss compensation in whole or in part; or suspend or deny medical benefits.

Unless otherwise agreed to by the worker, the department or self-insurer shall mail written notice of any requested examination directly to the worker and to the worker's representative, if any, at least fourteen calendar days prior to the requested examination but not greater than sixty days. The

notice shall state the date, time, and location of the examination.

A worker shall not be deemed to have refused to attend a scheduled examination if:

(1) The department or self-insurer did not mail notice of the examination at least fourteen calendar days prior to the examination;

(2) The worker arrives at the examination location within thirty minutes after the scheduled time of examination; or

(3) The worker leaves the examination location later than one hour after the scheduled time of examination and the worker has not yet been called for the examination.

Prior to the issuance of an order reducing, suspending or denying benefits, the department or self-insurer must request, in writing, from the worker or worker's representative the reason for the refusal, obstruction, delay, or noncooperation.

If the department determines no good cause exists, or if the worker fails to respond to the department's request for the reason for the refusal, obstruction, delay or noncooperation, within thirty days after the letter is issued the department will issue an order reducing, suspending, or denying benefits.

[Statutory Authority: RCW 51.32.110 and 51.32.190(6). 90-19-028, § 296-14-410, filed 9/12/90, effective 10/13/90.]

WAC 296-14-420 Payment of benefits—Aggravation reopening/new injury. (1) Whenever an application for benefits is filed where there is a substantial question whether benefits shall be paid pursuant to the reopening of an accepted claim or allowed as a claim for a new injury or occupational disease, the department shall make a determination in a single order. Where one of the claims is with a self-insured employer and another is with a state fund employer, such determination shall be made jointly by the program managers for claims administration and self insurance, or their respective designees.

(2) Pending entry of the order, benefits shall be paid promptly by the entity which would be responsible if the claim were determined to be a new injury or occupational disease.

(3) The department is required to act under this rule only if:

(a) There is substantial evidence that the worker will be determined to be entitled to benefits on one of the claims; and

(b) There is uncertainty regarding which of the entities is responsible.

(4) Time-loss compensation shall be paid at the lesser of the two entitlements that may apply to the claim until responsibility has been determined between state fund and self-insured employer, two self-insured employers, or two state fund employers.

(5) If, upon final determination of the responsible insurer, the entity that paid benefits under subsection (2) of this section is determined not to be responsible for payment of benefits, such entity shall be reimbursed by the responsible entity for all amounts paid.

[Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-420, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.32.110 and 51.32.190(6). 90-19-028, § 296-14-420, filed 9/12/90, effective 10/13/90.]

WAC 296-14-600 Payment of benefits on asbestos-related disease claims. The department shall furnish the benefits provided under Title 51 RCW to any worker or beneficiary who may have a right or claim for benefits under the maritime laws of the United States resulting from an asbestos-related disease if there are objective clinical findings to substantiate that the worker has an asbestos-related claim for occupational disease; and the worker's employment history has a prima facie indicia of injurious exposure to asbestos fibers while employed in the state of Washington in employment covered under Title 51 RCW.

(1) A worker's employment history will be deemed to have a prima facie indicia of injurious exposure to asbestos fibers if the employment history as contained in the department's file permits a reasonable conclusion that the worker was exposed to asbestos fibers and that such exposure was of sufficient duration to be injurious. "Injurious" means impairing to either a partial or total extent, and may be either permanent or temporary.

(2) Whenever the department has determined to pay benefits pursuant to chapter 271, Laws of 1988, the department shall render a decision as to the liable insurer and shall continue to pay benefits until the liable insurer initiates payments or benefits are otherwise properly terminated.

The department shall render its decision in a final order as provided in RCW 51.52.050.

Initiation of payments by a liable insurer shall be deemed to occur on the date such insurer issues a check or warrant or otherwise remits to the worker, beneficiary, or any provider any payment of any benefits owed by such insurer on the claim for asbestos.

(3) Benefits shall be paid on all pending asbestos-related claims as of July 1, 1988. Pending claims are those which have not been finally adjudicated by order of the department or the board of industrial insurance appeals or by the entry of a judgment of a superior court or decision of the court of appeals or the supreme court.

If any order of the department granting such benefits is appealed, benefits shall continue, if otherwise available, until a final determination is made by the board of industrial insurance appeals or the courts, or upon initiation of payments by a liable insurer.

(4) If benefits are paid by the department from the medical aid fund on an asbestos-related claim, and it is determined by the department that such benefits are owed to the worker or beneficiary by an insurer under the maritime laws of the United States or by another federal program other than the Federal Social Security, Old Age Survivors and Disability Insurance Act, 42 U.S.C., the department shall pursue such insurer or program to recover such benefits as may have been paid by the department.

The determination by the department shall be expressed in a final order as provided by RCW 51.52.050.

(5) Whenever a self-insured employer is determined to be liable, the self-insured employer shall reimburse benefits to the department within ten days after the department order becomes final and binding. Failure to do so shall subject the employer to a penalty as authorized in RCW 51.48.080.

(6) The director's discretion to waive recovery of the benefits paid to the claimant or beneficiary shall be exercised in accordance with WAC 296-14-200 (3)(c).

(7) No information obtained under this section is subject to release by subpoena or other legal process. The department will release information only to those persons authorized access to claim files by RCW 51.28.070.

[Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-14-600, filed 6/24/88.]

WAC 296-14-900 Authority to use special assistant attorneys general. WAC 296-14-900 through 296-14-940 implement RCW 51.12.102 and 51.24.110, which authorize the department to use private attorneys as special assistant attorneys general.

[Statutory Authority: RCW 51.24.110 and 51.12.102. 98-19-001, § 296-14-900, filed 9/2/98, effective 10/5/98. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-900, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-900, filed 3/31/88.]

WAC 296-14-910 Lists of special assistant attorneys general. (1) The department must determine from the application and other sources if an attorney qualifies to be placed on the lists of attorneys eligible to represent the department as special assistant attorneys general. The department may consult with the Washington State Bar Association and the office of the attorney general to make the determination.

(2) The office of the attorney general must appoint qualified attorneys as special assistant attorneys general. Once appointed, these attorneys become eligible to represent the department. Appointed attorneys serve at the pleasure of the office of the attorney general, and the appointments may be canceled without cause.

(3) The department must compile and maintain lists of attorneys eligible to represent the department as special assistant attorneys general. Referrals may be made from the lists and contracts entered into.

(4) Once a year, the department must provide a current copy of its lists of attorneys to the office of the attorney general and to the Washington State Bar Association.

[Statutory Authority: RCW 51.24.110 and 51.12.102. 98-19-001, § 296-14-910, filed 9/2/98, effective 10/5/98. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-910, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-910, filed 3/31/88.]

WAC 296-14-920 Qualifications of special assistant attorneys general. To be eligible for placement on the department's lists of attorneys, an attorney must:

(1) Be an active member of the Washington State Bar Association;

(2) Meet bar association requirements of the state the action is in, if other than Washington;

(3) Maintain a trust account in compliance with the rules of professional conduct; and

(4) Have and maintain in force professional liability insurance.

[Statutory Authority: RCW 51.24.110 and 51.12.102. 98-19-001, § 296-14-920, filed 9/2/98, effective 10/5/98. Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-920, filed 3/31/88.]

WAC 296-14-930 Applying for special assistant attorney general. (1) Application forms may be obtained from the office of the attorney general, the Washington State Bar Association, or the department.

(2) The applicant must:

(a) Complete the form and send it to the department; and

(b) Inform the department and the office of the attorney general immediately of any changes in his or her qualifications.

[Statutory Authority: RCW 51.24.110 and 51.12.102. 98-19-001, § 296-14-930, filed 9/2/98, effective 10/5/98. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-930, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-930, filed 3/31/88.]

WAC 296-14-940 Removal of special assistant attorneys general. (1) RCW 51.12.102 and 51.24.110 and WAC 296-14-900 through 296-14-940 do not give private attorneys on the special assistant attorneys general lists any right to expect employment.

(2) Private attorneys, unless representing the department in a specific case, must not:

(a) Refer to themselves as "special assistant attorney general"; or

(b) Include this designation on any correspondence or pleadings relating to services.

(3) The department, in conjunction with the office of the attorney general and the Washington State Bar Association, may remove an attorney for cause from the lists of attorneys eligible to represent the department. Cause includes, but is not limited to:

(a) Misuse of the designation "special assistant attorney general";

(b) Lapse of any qualification; or

(c) Failure to meet performance requirements of the department contract.

(4) After one year an attorney may write to the department and request to be placed on the lists of attorneys eligible to represent the department again. The department in its discretion may place the attorney on its lists again.

(5) If the department removes an attorney from the lists a second time, or if the department decides not to place a removed attorney on its lists again, the department must notify the office of the attorney general to cancel the appointment. The department may refer the attorney to the Washington State Bar Association for consideration of disciplinary action. The attorney must reapply for appointment.

[Statutory Authority: RCW 51.24.110 and 51.12.102. 98-19-001, § 296-14-940, filed 9/2/98, effective 10/5/98. Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-14-940, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.24.110. 88-08-026 (Order 88-03), § 296-14-940, filed 3/31/88.]

WAC 296-14-970 Worker's review of claim file. (1) Pursuant to RCW 51.28.070, workers may be allowed to review their claim file(s) upon written request to the depart-

ment or self-insurer. The written request should contain the worker's name, claim number, signature, and the information requested. If the request is approved, the department or self-insurer shall provide a copy of the claim file to the worker.

(2) Reasons for denying release of a claim file, to a worker shall include, but not be limited to the following:

(a) Presence of psychological, mental health, or physical treatment records, investigative reports or other records, release of which may not be in the interest of the worker.

(b) Medical opinion or other documented information indicates the worker is a danger to himself or herself or others.

(3) If, pursuant to the criteria established under subsection (2) of this section, the self-insured employer determines that release of the claim file, in whole or in part, may not be in the worker's interest, the employer must submit a request for denial with explanations along with a copy of that portion of the claim file not previously submitted to the self-insurance section within twenty days after receipt of the request from the worker.

(4) If the request for the claim file is denied, in whole or in part, a written order of denial will be issued by the department and mailed to the worker. The worker may appeal the order to the board of industrial insurance appeals.

(5) The provisions of this rule will apply to all claims regardless of the date of injury.

[Statutory Authority: RCW 51.28.070. 90-18-002, § 296-14-970, filed 8/23/90, effective 9/23/90.]

Chapter 296-15 WAC

WORKERS' COMPENSATION SELF-INSURANCE RULES AND REGULATIONS

WAC

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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-15-02606 Self-insured employee rights. [Statutory Authority: RCW 51.04.020. 94-05-042, § 296-15-02606, filed 2/9/94, effective 3/14/94.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-040 Payment of deficit. [Order 77-19, § 296-15-040, filed 9/26/77; Order 73-24, § 296-15-040, filed 11/23/73; Order 71-15, § 296-15-040, filed 12/1/71.] Repealed by 81-10-052 (Order 81-8), filed 5/1/81. Statutory Authority: RCW 51.04.020(1) and 51.14.020(4).

296-15-044 Payment of deficit. [Statutory Authority: RCW 51.04.020(1) and 51.14.020(4). 81-10-052 (Order 81-8), § 296-15-044, filed 5/1/81, effective 6/1/81.] Repealed by 83-07-075 (Order 83-9), filed 3/23/83. Statutory Authority: RCW 51.14.020(1).

296-15-070 Accident reports and claims procedures. [Statutory Authority: RCW 51.32.190 and 51.14.090. 96-21-145, § 296-15-070, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 51.04.020. 94-17-069, § 296-15-070, filed 8/15/94, effective 9/15/94; 90-14-009, § 296-15-070, filed 6/25/90, effective 8/1/90; 88-12-096 (Order 88-07), § 296-15-070, filed 6/1/88; 86-18-037 (Order 86-35), § 296-15-070, filed 8/28/86. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-070, filed 12/1/83, effective 1/1/84. Statutory Authority: RCW 51.04.020 and Title 51 RCW. 82-12-035 (Order 82-23), § 296-15-070, filed 5/27/82, effective 7/1/82; 81-24-040 (Order 81-29), § 296-15-070, filed 11/30/81; Order 77-19, § 296-15-070, filed 9/26/77; Order 72-15, § 296-15-070, filed 8/4/72; Order 71-15, § 296-15-070, filed 12/1/71.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-072 Employer claim closures. [Statutory Authority: RCW 51.04.020. 94-17-069, § 296-15-072, filed 8/15/94, effective 9/15/94; 86-18-037 (Order 86-35), § 296-15-072, filed 8/28/86.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-100 Permanent partial disability awards. [Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-100, filed 7/1/86; Order 77-19, § 296-15-100, filed 9/26/77; Order 74-38, § 296-15-100, filed 11/18/74, effective 1/1/75.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-160 Order on self-insured claims. [Statutory Authority: RCW 51.04.020. 94-17-069, § 296-15-160, filed 8/15/94, effective 9/15/94; 86-14-079 (Order 86-25), § 296-15-160, filed 7/1/86; Order 77-19, § 296-15-160, filed 9/26/77; Order 75-28, § 296-15-160, filed 8/29/75, effective 1/1/76.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-180 Examinations for rating disability. [Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-180, filed 7/1/86; Order 75-28, § 296-15-180, filed 8/29/75, effective 1/1/76.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-190 Notification of rights and obligations. [Statutory Authority: RCW 51.32.190 and 51.14.090. 96-21-145, § 296-15-190, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 51.04.020. 88-12-096 (Order 88-07), § 296-15-190, filed 6/1/88; Order 75-28, § 296-15-190, filed 8/29/75, effective 1/1/76.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

296-15-21001 Form—SIF #3—Self-insured employer's notice of acceptance of claim. [Order 71-15, Form SIF #3 (codi-

	fied as WAC 296-15-21001), filed 12/1/71.] Repealed by 84-06-031 (Order 83-38), filed 3/1/84, effective 4/1/84. Statutory Authority: RCW 51.04.020(1).
296-15-21002	Form—SIF #4—Self-insured employer's notice of denial of claim. [Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), §296-15-21002, filed 7/1/86; Order 71-15, Form SIF #4 (codified as WAC 296-15-21002), filed 12/1/71.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).
296-15-21003	Form—SIF #5—Supplemental or final report on occupational injury or disease. [Order 71-15, Form SIF #5 (codified as WAC 296-15-21003), filed 12/1/71.] Repealed by 86-18-037 (Order 86-35), filed 8/28/86. Statutory Authority: RCW 51.04.020.
296-15-230	Third party actions. [Statutory Authority: RCW 51.04.020. 85-06-031 (Order 85-6), § 296-15-230, filed 3/1/85. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-230, filed 12/1/83, effective 1/1/84; Order 77-19, § 296-15-230, filed 9/26/77.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).
296-15-240	Procedure in cases appealed to the superior court. [Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-240, filed 7/1/86; Order 77-19, § 296-15-240, filed 9/26/77.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).
296-15-250	Representation in self-insured appeals. [Statutory Authority: RCW 51.04.020. 88-12-096 (Order 88-07), § 296-15-250, filed 6/1/88. Statutory Authority: RCW 51.14.020(1). 83-18-038 (Order 83-28), § 296-15-250, filed 9/1/83.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).
296-15-265	Penalties. [Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-265, filed 12/1/83, effective 1/1/84.] Repealed by 98-24-121, filed 12/2/98, effective 1/2/99. Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a).

WAC 296-15-001 Definitions. "Substantially similar" means:

(1) The text of the department's document has not been altered or deleted; and

(2) The self-insurer's document has the text:

(a) In approximately the same font size;

(b) With the same emphasis (bolding, italics, underlining, etc.); and

(c) In approximately the same location on the page as the department's document.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-001, filed 12/2/98, effective 1/2/99.]

WAC 296-15-010 Preamble and authority. These rules and regulations governing workers' compensation self-insurance plans were adopted by the director of the department of labor and industries in accordance with sections 27, 47, and 59, chapter 289, Laws of 1971 1st ex. sess., and chapter 51.14 RCW. These rules and regulations were adopted to implement and make specific those sections of chapter 289, Laws of 1971 1st ex. sess., relating to workers' compensation self-insurance.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-010, filed 7/1/86; Order 71-15, § 296-15-010, filed 12/1/71.]

WAC 296-15-020 Certification to self-insure. (1) The application for certification to self-insure will be made only by those firms who have been in business for a minimum of three years, on a form prescribed by the department which will elicit necessary information as to an employer's qualifications for self-insurance. The application form must be accompanied by independently audited financial statements for the most recent three years of the applicant firm's operation. Provided that, in cases where the majority of employees of a currently certified self-insurer purchase the controlling interest in that business or a portion of that business pursuant to an employees' stock ownership plan (ESOP), the three-year requirement of this subsection shall not apply. In these instances, an ESOP may apply for certification to self-insure on a form prescribed by the department, which must be accompanied by an independently audited financial statement covering a minimum of one year of the new entity's operation. Any such new entity must meet all other qualifications and requirements to obtain and maintain certification, provided that, until such time that independently audited financial statements covering three years of the applicant firm's operation are provided, such entities shall provide surety at a level equal to one hundred twenty-five percent of the amount which would otherwise be required by the department as specified in WAC 296-15-030.

(2) The application shall be supplied by the department to an employer upon the employer's request. It shall be completely and accurately filled out by the employer, and forwarded, with all necessary supporting documents, to the director.

(3) The director shall consider all matters relating to the applicant's qualifications to perform as a self-insurer, and shall advise the employer of the action taken on the application thirty days before the requested certification date. If deemed necessary for obtaining further information, the director may extend the time for acting on the application. Employers who are denied certification due to deficient accident prevention programs may be required to wait six months before being considered for certification again.

(4) An employer granted approval to self-insure will be required to acknowledge, in writing, its responsibility for the payment of benefits on all claims occurring during its period of self-insurance. This obligation will continue whether the employer voluntarily surrenders its certificate to self-insure or the certificate is withdrawn by the department.

[Statutory Authority: RCW 51.04.020. 94-05-042, § 296-15-020, filed 2/9/94, effective 3/14/94; 90-14-036, § 296-15-020, filed 6/29/90, effective 7/30/90; 88-12-096 (Order 88-07), § 296-15-020, filed 6/1/88; 86-14-079 (Order 86-25), § 296-15-020, filed 7/1/86. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-020, filed 12/1/83, effective 1/1/84; Order 77-19, § 296-15-020, filed 9/26/77; Order 71-15, § 296-15-020, filed 12/1/71.]

WAC 296-15-022 Corporate guarantee. If an applicant for self-insurance certification is a subsidiary, the parent firm shall furnish the department with its guarantee to assume and be responsible for the workers' compensation liabilities of the subsidiary in the event the subsidiary firm is unable or unwilling to cover these liabilities. If a self-insurer is purchased by another firm, which becomes its parent, the parent shall provide the department with its most recent audited financial statement and its guarantee. This guarantee is to be on a form provided by the department. For the purposes of this rule, a parent firm is defined as one which owns fifty percent, and/or has a controlling interest in, another firm which

shall be considered to be a subsidiary. Failure by a parent to provide a guarantee for its self-insured subsidiary will result in the surety requirement of the subsidiary being established at one hundred twenty-five percent of what would otherwise be required as specified in WAC 296-15-030. Surety at the level of one hundred twenty-five percent of the normal requirement will continue to be required as long as no parental guarantee has been provided.

[Statutory Authority: RCW 51.04.020. 93-11-064, § 296-15-022, filed 5/14/93, effective 6/14/93; 88-12-096 (Order 88-07), § 296-15-022, filed 6/1/88. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-022, filed 12/1/83, effective 1/1/84.]

WAC 296-15-023 Entities included in certification. (1) The certification of a firm will include all of its subsidiaries or divisions doing business in the state of Washington. A subsidiary is defined, for the purpose of this rule, as an entity which is fifty percent owned and/or has its interest controlled by another single firm.

(2) One certificate will be issued to an approved self-insurer, including all subsidiaries or divisions. The entities will be considered as one employer for all purposes of Title 51 RCW.

[Statutory Authority: RCW 51.04.020. 93-11-064, § 296-15-023, filed 5/14/93, effective 6/14/93; 88-12-096 (Order 88-07), § 296-15-023, filed 6/1/88; 86-14-079 (Order 86-25), § 296-15-023, filed 7/1/86. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-023, filed 12/1/83, effective 1/1/84.]

WAC 296-15-025 Joint venture. (1) An application for certification to self-insure will be made on a form prescribed by the department which will set forth the necessary information regarding the qualifications of the joint venture to self-insure.

(2) The application form, (SIF 1-A), will be supplied by the department upon written request. It will be completed by the applicant and submitted to the department with all supporting documents attached.

(3) Applications will be acted upon within fourteen calendar days of receipt, provided, that if deemed necessary for obtaining additional information, the director may extend the time for acting on the application. Processing the application will include an evaluation of the financial condition of all parties with interest greater than twenty percent in the assets and profits of the joint venture and an evaluation of the written safety program to be in effect at all job sites of the joint venture.

(4) Certification will be effective on the first day of a calendar month following receipt of surety and all required documentation. The director will consider the qualifications of the applicant and will advise the applicant of the action taken.

(5) Applicant joint ventures must include a sponsoring party. The word "sponsor" defines an employer presently self-insured in the state of Washington, with a majority interest in the assets and profits of the joint venture. The sponsor shall be responsible for the management of all industrial insurance claims, and shall accept full responsibility for all compensation due claimants. In the event of insolvency, bankruptcy, or dissolution of a party to the joint venture or the joint venture itself, the sponsoring party shall be held primarily responsible for all workers' compensation benefits due, with all parties to the joint venture being held jointly and severally responsible for payment of all compensations and assessments which may become due until all obligations are released by the department. At the discretion of the director and by written request from the sponsoring party, the department may release a minority party from its obligations one year after fulfillment of the construction contract and a final settlement of the joint venture account has been made.

(6) The agreement under which the joint venture will perform shall be attached to the application form. The joint venture agreement shall contain a description of the obligations and responsibilities of each party for the industrial insurance program of the joint venture. The sponsor shall accept full responsibility for the management and payment for all incurred claims during the life of and after dissolution of the joint venture.

(7) Surety will be required in an amount deemed by the department to insure sufficient financial ability to make certain the prompt payment of all compensation under this title and all assessments which may become due, but not less than the employer's normal expected annual claim liabilities. The surety bond or escrow account will name the joint venture and all the parties thereof as principal. WAC 296-15-030 shall govern the posting of surety by the joint venture.

(8) The joint venture shall be subject to all regulations, reports, and assessments set forth in Title 51 RCW and accompanying WAC rules.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-025, filed 7/1/86; 82-07-019 (Order 82-8), § 296-15-025, filed 3/10/82.]

WAC 296-15-026 Group self-insurance application. (1) An application from qualified employers for group self-insured workers' compensation coverage shall be made to the department on a form prescribed by the department and shall contain answers to all questions. Answers shall be given under oath.

(2) The application, as submitted by the initial board of trustees of the self-insurers' trust fund, shall have the following attached:

(a) A copy of the bylaws of the proposed group self-insurers' trust fund.

(b) Individual applications of each employer applying for coverage in the trust fund.

(c) A current financial statement of each member of the group and a financial statement collectively reflecting the financial condition of prospective members of the trust fund in compliance with WAC 296-15-02602(2).

(d) A listing of the estimated standard premium to be developed for each member individually and in a total as a group.

(e) The group shall engage a department-approved administrator or enter into a contract with an approved service company. A copy of the signed agreement with the service company shall be submitted with the application.

(f) Designation of the initial board of trustees and administrator.

(g) An indemnity agreement jointly and severally binding the trust fund and each member thereof to comply with the provisions of the Industrial Insurance Act. The indemnity

agreement shall be in a form that has been approved by the department.

(h) A detailed budget of all projected administrative expenses for the fund year.

[Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-026, filed 12/1/83, effective 1/1/84. Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-026, filed 12/17/82.]

WAC 296-15-02601 Group self-insurers admission of new members, termination of individual members. (1) After the inception date of the trust fund, prospective new members of the trust fund shall submit an application for membership to the board of trustees, or its administrator, on a form provided by the department. The trustees or administrator may approve the application for membership pursuant to the bylaws of the group self-insurers' trust fund. The application for membership shall then be filed with the department. Membership shall take effect the first day of the calendar quarter after reporting the approval to the department.

(2) Individual members may elect to terminate their participation in a group self-insurer's program or be subject to cancellation by the group trust fund pursuant to the bylaws of the group. Such termination or cancellation shall be effective at the end of the month in which it was reported to the department.

(3) Contributions to the trust fund for purposes of meeting the requirements of WAC 296-15-02605 shall be paid under a schedule of dates and amounts specified by the group's board of trustees, subject to the following requirement: At no time during any coverage period shall the amount collected by the trust fund to apply to costs and/or reserves for that coverage period be less than the result obtained by multiplying the fraction of the coverage period which has elapsed by the total contribution expected to be necessary to satisfy requirements of WAC 296-15-02605 for the entire coverage period.

[Statutory Authority: RCW 51.04.020. 94-17-069, § 296-15-02601, filed 8/15/94, effective 9/15/94. Statutory Authority: RCW 51.04.020(1). 84-06-031 (Order 83-38), § 296-15-02601, filed 3/1/84, effective 4/1/84; 83-24-027 (Order 83-22), § 296-15-02601, filed 12/1/83, effective 1/1/84. Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-02601, filed 12/17/82.]

WAC 296-15-02602 Group self-insurance reports. Reports as to financial standing, payroll records, coverage, accident experience, compensation payments, and such other reports as are required to be filed with the department shall be made at the following times and in the following manner:

(1) Summary loss data shall be maintained by the trust fund and shall be available to the department when requested.

(2) Each trust fund shall, not later than July of each year, comply with WAC 296-15-080 with respect to the financial condition of the trust.

(3) Quarterly reports shall be filed with the department within sixty days from the end of a calendar quarter. A listing of any and all delinquent accounts as defined by the bylaws shall be attached as a part of this report.

(4) A certified copy of the minutes of all trustees meetings shall be retained by the trust fund administrator. The minutes shall be made available to the department upon request.

[Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-02602, filed 12/17/82.]

WAC 296-15-02603 Group self-insurance trustee responsibilities. (1) To ensure the financial stability of the operations of each group self-insurers' trust fund, the board of trustees shall be responsible for all operations of the trust fund. Trustees shall be a group of members elected by members of a self-insurers' trust fund for stated terms of office to direct the administration of a self-insurers' trust fund. The duties of the trustees include the responsibility of approving applications for new members of the fund. The trustees shall be chosen from members of the self-insurers' group, but a trustee shall not be an owner or any employee of a company under contractual obligation to the fund or officer or employee of a service organization independent of the employer as defined in WAC 296-15-110. The board of trustees of each trust fund shall take all necessary precautions to safeguard the assets of the trust fund, including but not limited to all of the following:

(a) Designate a fiscal agent and/or administrator to administer the financial affairs of the trust fund in accordance with Title 51 RCWs, appropriate WACs and/or RCWs pertaining to the conduct of the group self-insured trust regarding investments of funds and budget and accounting procedures as applicable. The fiscal agent or administrator shall furnish a fidelity bond with the trust fund in an amount sufficient to protect the trust fund against the misappropriation or misuse of any moneys or securities. Evidence of such bond shall be filed with the department. The bond is one of the conditions required for approval of the establishment and continued operation of a group self-insurers' trust fund. Such fiscal agent or administrator shall not be an owner, officer, or employee of a service organization independent of the employer as defined in WAC 296-15-110.

(b) Manage deposits to and disbursements from the trust fund in accordance with WAC 296-15-02605.

(c) Audit the accounts and records of the trust fund annually or at any time required by the department. Copies of audits shall be filed with the department within six months after the close of the trust fund year.

(d) The trustees shall not extend credit to individual members for payment of premium.

(e) The board of trustees or its fiscal agent or administrator shall not utilize any moneys collected as premiums for any purpose unrelated to workers' compensation. Further, it shall not borrow any moneys from the fund or in the name of the fund without advising the department of the nature and purpose of the loan and obtaining prior department approval.

(2) The board of trustees may delegate authority for specific functions to the administrator of the group self-insurers' trust fund. The functions that may be delegated include but are not limited to such matters as contracting with a service organization agent, determining the premium charged to, and refunds payable to, members subject to the restrictions of the department for investing surplus moneys set forth in subsection (1)(e) of this section, and approving applications for

membership. All delegated authority shall be specifically defined in the written minutes of the trustees' meetings.

(3) Prior to certification date excess workers' compensation coverage shall be purchased providing adequate protection against catastrophic or unexpected loss. Adequate coverage shall be maintained throughout the period of group self-insurance.

[Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-02603, filed 12/1/83, effective 1/1/84. Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-02603, filed 12/17/82.]

WAC 296-15-02604 Group self-insurance funds—Surplus distribution—Deficit. (1) Any surplus moneys for a fund year in excess of the amount necessary to fulfill all obligations under the act, including maintenance of reserves specified in WAC 296-15-02605 may be declared refundable by the trustees, and the amount of the declaration shall become a liability of the fund at the time of the declaration.

(2) In the event of a deficit in any fund year, the deficit shall be made up from any of the following:

(a) Unencumbered surplus from a fund year other than the current fund year, after approval by the department.

(b) By assessment of the membership of the deficit fund year if ordered by the department.

(c) By such alternative method as the department may approve.

[Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-02604, filed 12/17/82.]

WAC 296-15-02605 Reserves. (1) The group shall maintain adequate reserves to cover claim liabilities and the overhead expense of paying claims liabilities. It shall also maintain a reserve to pay the department administrative assessment which would apply to outstanding claim costs if the group were to be discontinued. Additionally, the group shall maintain a contingency reserve equal to fifteen percent of the claim liabilities, or twenty-five percent of annual premium volume, whichever is greater, as a safeguard against adverse development of costs. Reserves may be discounted for anticipated investment income. Notwithstanding the reserves otherwise calculated under this section, the maximum reserve for any particular coverage period for which the group has purchased an aggregate excess reinsurance policy from a reinsurer shall be the difference between the group's retention under the policy and the amount which it has already paid for claim costs for the particular coverage period plus expense items not recoverable from the reinsurer: *Provided,* That the reinsurer is authorized by the insurance commissioner to transact such business in the state of Washington. Any coverage period, or periods, for which the difference between aggregate excess retention and amounts already paid for claim costs is carried as a reserve shall not be subject to the additional requirement of maintaining a contingency reserve.

(2) Reserve requirements for group self-insurance may not be satisfied in whole or in part by posting of a surety bond or bonds. Minimum required reserves for claim liabilities are described below. The group may set aside higher reserves if it perceives a greater liability than calculated under the following methods:

(a) **Reserve Method I**

This method shall apply until the group has passed the runoff test described under Method II or until five years after the group has submitted its first annual report covering at least one full year of operation, whichever comes first. Under Method I, the groups' reserves other than the contingency reserves, shall be based on the accident and medical aid fund premiums which it would have paid had it been insured with the state fund. Such premiums shall be determined each year by multiplying the hours of employment in each risk classification by the base rates for each risk classification, and by the group's composite experience modification. The group's composite experience modification shall be based on combined state fund experience of its members and shall be calculated using the formulas and procedures specified in WAC 296-17-850 through 296-17-870. If the group becomes ineligible for an experience modification under WAC 296-17-850(1) by virtue of having insufficient state fund experience, it shall retain its last previous experience modification for the balance of time during which Reserve Method I is in use. Chapter 296-17 WAC shall govern the computation of hours and the assignment of risk classification.

This group shall deposit such premiums in a reserve account. Payments or withdrawals therefrom may be made only for the following conditions:

(i) Payment of administrative expenses of operating the group self-insurance program including claims handling expenses, legal costs and department administrative assessments.

(ii) Payment of claim costs other than supplemental pension fund claim payments. Supplemental pension fund benefits may be paid from the reserve account, provided that reimbursement for such payments is claimed under provisions of WAC 296-15-210, and provided that such reimbursement is deposited in the reserve account when received. Any interest earned by the reserve account must remain in the account during the period in which this method is in effect.

(iii) The group may pay its reinsurance premium from the reserve account, provided the reinsurer is authorized by the insurance commissioner to transact reinsurance in the state of Washington and provided the group retains amounts recovered from the reinsurer in the reserve account. Within eighteen months after the end of the coverage period, the group shall return the reinsurance premium, less any recoveries already received, into the reserve account. Thereafter it may include amounts which it reasonably expects to recover from the reinsurer, based on case estimates, as an asset. Such assets may be used for satisfying reserve requirements, provided the group retains amounts recovered from the reinsurer in the reserve account.

(b) **Reserve Method II**

The group shall report its claim payments and its estimated claim liabilities annually. For the purpose of applying Methods II and III, the group's estimate of its claim liabilities shall be based on its own reckoning regardless of the amount of reserves actually required by department regulations. The department will perform a runoff test of the adequacy of the group's estimate of liabilities by tracking the subsequent costs

of claims (subsequent payments plus the group's updated estimates of remaining liabilities). If the subsequent costs over a three year development period following the effective date of an annual report covering at least one full year of operation do not exceed original liability estimates by more than fifteen percent, then the group's estimation of claim liabilities will be considered adequate and required reserves will thenceforth be based on the group's own estimates until such time in the future as the runoff test may demonstrate an inadequacy in reserving methodology.

(c) **Reserve Method III**

This method shall apply if the group fails the runoff test described in Method II, provided at least five years has elapsed since the group filed its first annual report covering at least one full year of operation. Under Method III the department shall determine the extent to which past liability estimates of the group have been inadequate as determined by the runoff test. The department shall apply a correction factor to the group's current estimates of its liabilities to compensate for anticipated repetition of inadequate estimates.

Methods II and III presume a consistency in reserving methodology by the group. If the department determines that the group has changed its reserving methodology in such a way as to invalidate Method II or III, then it shall make such adjustment to the procedure as may be appropriate under the circumstances. The group may devise its own method for calculating individual member's premiums under Reserve Methods I, II and III, provided the total premiums are sufficient to set up the required reserves.

[Statutory Authority: RCW 51.14.150 and 51.14.160. 83-01-076 (Order 82-43), § 296-15-02605, filed 12/17/82.]

WAC 296-15-030 Surety requirement. Subsections (2) through (7) and (10) through (12) of this section shall apply only to individual self-insurers and joint ventures and shall not apply to counties, cities, school districts, municipal corporations, and individual accounts participating in group self-insurance programs. Subsection (9) of this section shall apply only to counties, cities, municipal corporations, and school districts not participating in group self-insurance programs. Group self-insurance programs are subject to subsection (8) of this section and reserve requirements set forth in WAC 296-15-02601(3) and 296-15-02605. Subsections (1) and (13) of this section apply to all self-insurers.

(1) For the purposes of this section, the following definitions apply:

(a) "Default" means the financial inability to continue the payment of benefits and assessments. A default results in a payment stoppage which is not due to a claims administration decision.

(b) "Developed reserves" means an estimate of the total remaining cost of the claims of an accident year made by use of development factors.

(c) "Development factor" means an actuarially determined factor which expresses the changes in either incurred or paid liability from one year to the next.

(d) "Incurred liability" means the total cumulative amount paid plus the total amount reserved for future payments on all claims of an accident year.

(e) "Loss development" means the historical change in the incurred or paid liability of an accident year due to the additional payment of benefits or the revaluation of claim reserves as a result of changes in the claimant's condition, the reopening of claims, or the opening of claims incurred but not previously reported.

(f) "Loss development analysis" means the actuarial projection of ultimate claim liability which a self-insured employer may expect to pay for all claims reported to the department each year as of December 31 based on the historical development of liability.

(g) "Paid liability" means the total cumulative amount paid on the claims of an accident year.

(h) "Reported reserves" means the estimated dollar amount adequate to cover claim costs through closure.

(2) The surety required of self-insurers is for the sole purpose of providing for the payment of benefits and assessments in the event of a default under Title 51 RCW, as defined in subsection (1)(a) of this section. Surety is not considered to be an asset of the estate of the debtor and will not be released by the department in the event the self-insurer files or has filed a petition for dissolution or relief under bankruptcy laws. Upon approval of an application for certification to self-insure, the director shall review the matter and notify the employer of the amount of surety which must be provided pursuant to RCW 51.14.020 as now or hereafter amended. This amount as so established may be satisfied by the employer's supplying of cash, corporate or governmental securities approved by the director, or a bond, written by a company admitted to transact surety business in this state, in favor of the department. A self-insurer with a net worth of not less than five hundred million dollars may also provide surety in the form of an irrevocable standby letter of credit issued by a federally or state chartered commercial bank authorized to conduct business in this state. Cash and securities of a self-insurer shall be deposited with an escrow agent approved by the director and administered pursuant to a written agreement between the department, the self-insurer and the escrow agent. Cash and securities shall be registered in the name of the escrow agent on behalf of the self-insurer. Securities which represent cash deposited in a bank with which the self-insurer has a borrowing relationship shall not be an asset available to that bank in the event of a default on any obligation to that bank by the self-insurer. The originals of all surety documents submitted by self-insurers after acceptance by the director will be kept on file in the department.

(3) The minimum amount of surety required for initial certification as a self-insurer shall be the projected average current cost of a permanent total disability claim including medical, time-loss, pension reserve, and any other miscellaneous claim costs paid prior to award of the pension. This average cost shall be calculated by the department on an annual basis.

The surety required for initial certification as a self-insurer may be greater than the minimum amount described above. In establishing such surety requirements, the department shall estimate the following amounts:

(a) The estimated amount of accident and medical aid fund premium that the self-insurer would have paid to the

state fund during the first year of self-insurance, if it had remained in the state fund.

(b) The estimated amount of incurred benefits for the first year of self-insurance, based on past experience with the state fund, adjusted for intervening changes in benefit schedules and exposure.

If either or both of the above amounts exceed the minimum surety requirement described in this section, the department will require the larger of (a) or (b) of this subsection as the surety requirement for initial certification as a self-insurer.

(c) Provided that, the initial surety requirement for a self-insurer may be based on an estimate of the expected average annual incurred losses, made by an independent qualified actuary.

(d) The surety required in accordance with the above procedures may be adjusted by the department if there are other known conditions which may alter the self-insurer's potential claim costs and/or its ability to pay them.

(4) The surety requirement for each self-insurer will be subject to review and increased or decreased at such times as the director deems necessary to maintain the adequacy of these requirements. To facilitate this review a self-insurer's annual report (SIF #7) shall be required in the form prescribed by the director and supplied to all self-insurers.

Surety requirements shall not be increased unless and until one or more of the following conditions are met:

(a) An estimate of the self-insurer's outstanding claim liabilities, made by either the self-insured employer or the department, exceeds the amount of surety in force; or

(b) The projected average current cost of a permanent total pension claim including medical, time-loss, pension reserve, and any other miscellaneous claim costs paid prior to award of the pension, exceeds the surety in force for the employer by twenty-five thousand dollars or more.

(5) In determining the surety requirement after the initial three years of certification, the department will make an analysis of the self-insurer's loss development using both incurred and paid methods. The analysis will result in factors for each period of loss development.

(a) These factors will be used to estimate the developed reserves within each method, as follows:

(i) The reported incurred liability for each accident year will be multiplied by its development factor resulting in the developed incurred liability after any appropriate subtraction of amounts for secured pensions and anticipated recoveries from excess insurance.

(ii) The reported paid liability for each accident year, without these subtractions, will be multiplied by its development factor resulting in the developed paid liability.

(iii) The developed reserve estimates made by the incurred and paid methods will be the result of subtracting the amount of benefits paid to date from the developed liability estimated by the respective methods.

(b) The surety required to secure the self-insurance reserves reported at the end of each calendar year will be determined by the percent of difference between the developed reserves estimated by the incurred method and the developed reserves estimated by the paid method. Whether the paid estimate is higher or lower than the incurred estimate, the paid estimate will be subtracted from the incurred estimate. The resulting difference will be divided by the incurred estimate to determine the percent of difference. The surety requirement will then be established as follows:

(i) In cases where the difference between the estimates is less than twenty-five percent, the surety will be established at the level of the incurred estimate.

(ii) In cases where the difference between the estimates is twenty-five percent or more but less than forty percent, the surety will be established at the average of the two estimates.

(iii) In cases where the difference between the estimates is forty percent or more, the department will make such adjustments to its procedure for estimating developed reserves as necessary. The surety will be established at the resulting estimate.

(iv) The surety required of a self-insurer will not be less than the current minimum surety requirement, with the exception that surety will not be required to increase to the minimum level unless the conditions indicated in subsection (4) of this section are met.

(c) The following special considerations shall apply in adjusting surety requirements for a self-insurer:

(i) Pension claims - Reserve amounts attributable to death or permanent total disability claims independently secured by means of a bond or assignment of account, and which are included in estimates of outstanding claim liabilities as shown on the self-insurer's annual report (SIF #7), shall be deducted from estimates of outstanding claim liabilities made in accordance with other provisions of this section.

(ii) Reinsurance - Anticipated recoveries under reinsurance policies held by a self-insurer must be documented by the self-insurer and reported to the department to qualify for consideration in establishing surety requirements. Such anticipated recoveries shall be applied to either the self-insurer's estimate of outstanding claim liabilities as shown on the most current self-insurer's annual report (SIF #7) or the department's estimate of the self-insurer's outstanding liabilities made in accordance with this rule, whichever is greater. If the resulting estimate of claim liabilities net of reinsurance recoveries is less than the surety requirement imposed by this rule without adjustment for reinsurance, the surety requirement shall be reduced accordingly; provided, that surety requirement imposed upon initial certification of a self-insurer or the minimum surety requirement may be retained by the department regardless of other estimates of claim liabilities for the self-insurer.

(iii) Strict application of loss development factors based upon the loss development analysis presumes a consistency of reserving methodology and results for the self-insurer. If the department determines that an employer has changed its reserving methodology in such a way as to invalidate loss development factors based upon past experience, then the department shall make such adjustments to the procedure as it may deem appropriate under the circumstances.

(iv) The department will give due consideration to any estimate of the self-insured employer's outstanding claim liabilities made by an independent qualified actuary. Such independent actuarial estimates are optional and not required by this rule.

(v) The department may allow a cap to the surety required of a self-insurer for each policy period in which there has been aggregate excess workers' compensation insurance. The cap will be equal to the dollar amount resulting by subtraction of the total benefits paid for the period from the policy retention amount.

(A) This cap shall be allowed only if the following criteria have been met prior to the annual determination of the surety requirement:

(I) The excess insurance company shall specify in writing that it will reimburse the department for any claims costs the department may incur if the self-insurer defaults and the department has paid the benefits.

(II) The self-insurer shall provide, in addition to its regular annual report (SIF-7), a report showing the claims costs and reserves by policy period for the time there is aggregate excess insurance.

(III) Any change in the retention amount for a policy period shall be communicated in writing to the department by the excess insurance company.

(B) The department will compare its estimate of the self-insurer's developed reserves for each policy period to the policy retention amount for that period less the benefits paid to date. The cap will be allowed if the developed reserves are greater. A reduction in a self-insurer's surety requirement will not be allowed for an anticipated recovery from specific excess insurance if a cap is allowed for aggregate excess insurance. The self-insurer shall provide surety for the amount of developed reserves exceeding any limit of the excess insurance coverage for a policy period.

(d) Any changes to the existing surety required by the department based on the loss development analysis shall be due by July 1 of each year, or an authorized extension date, and such changes shall provide adequate surety for all self-insured workers' compensation liabilities of the employer, regardless of when those liabilities were incurred.

(6) Surety must be submitted on a department-approved form. This form requires coverage of all past, present, and future liabilities. The only exceptions which would allow coverage from the effective date forward are the self-insurer's initial surety or surety which continues coverage provided by other cancelled surety. If a bond is provided in an amount equal to the self-insurer's current surety requirement, on a department-approved form covering all liabilities, all other surety will be released. The department will have sole authority to determine in which order surety is used in the event of a default.

(7) When an employer surrenders its certificate to self-insure or its certificate is withdrawn by the department, it must continue to provide for the payment of benefits on claims occurring during its period of self-insurance and to provide surety at the level determined by the department. Surety shall not be reduced from the level last required until three full calendar years after the date of surrender of certificate. The Annual Report of Self-Insured Business (SIF #7) must continue to be filed as long as quarterly reporting is required. A bond existing at the time of surrender of certificate may be cancelled, but it continues to provide surety for claims occurring prior to its cancellation. Any increase in surety required must be in the form of cash or securities deposited into an escrow account if a bond or letter of credit cannot be provided. The department will consider release of surety to the self-insurer or its successor when all of the following have occurred:

(a) All claims against the self-insurer are closed; and

(b) The self-insurer has been released from quarterly reporting of claims costs as required by WAC 296-15-060; and

(c) Ten years have passed from the date of release from reporting requirements. Claims reopened, or new filings for occupational diseases which occurred during the period of self-insurance, after release of surety shall be the obligation of the former self-insurer. Any benefits paid by the department as a result of a default by the former self-insurer after the release of surety shall be recovered by assessment against all self-insurers through the self-insurers' insolvency trust.

(8) A self-insurer's annual report (SIF #7) shall be required of group self-insurance programs on the form supplied by the department.

(9) The surety requirement for counties, cities, school districts, and municipal corporations shall provide for sufficient revenues to satisfy one hundred percent of the estimated claims for the succeeding fiscal period. The minimum security requirement shall be one hundred thousand dollars. In addition, a cumulative reserve of not less than twenty-five percent of the surety requirement must also be established. This cumulative reserve may be in the form of a bond, cash or securities in an escrow account, or any acceptable legal source of funding.

By July 1 of each year, each county, city, school district, or municipal corporation shall certify, on a form supplied by the department, its estimated claims liability and the revenues to meet those obligations. Documentation must be provided showing the estimated claims liabilities, the source(s) of revenues, and detailing accounts identified for the self-insurance obligations. Documentation of the cumulative reserve must specify the type of funding and reflect the account balance. Surety requirements for governmental units shall be subject to a periodic review by the department.

(10) An employer meeting the financial requirements specified in RCW 51.14.020(2) may provide the department with an irrevocable standby letter of credit to satisfy the surety requirement specified for its self-insurance obligations. An employer using a letter of credit must provide the department with a memorandum of understanding, on a form supplied by the department, agreeing to the following conditions:

(a) The letter of credit providing surety for the self-insurer's workers' compensation claims liability will cover all past, present, and future liability of the self-insurer regardless of any date of injury.

(b) Unless the department is notified otherwise, by registered mail at least sixty days prior to its expiration date, the letter of credit will be automatically extended without amendment for an additional one-year period.

(c) The self-insurer may substitute a bond and/or cash or securities deposited into an escrow account, in an amount designated by the department, as replacement for the letter of credit.

(d) If the department is notified that the letter of credit will not be renewed and no acceptable replacement surety is provided within thirty days of receipt of such notice, the department will draw the full value of the letter of credit. All proceeds of the letter of credit will be deposited with the accident fund under a subsidiary ledger account. Accrued interest in excess of the self-insurer's surety requirement will be returned semiannually. If the self-insurer provides acceptable replacement surety at a later date, the proceeds will be returned.

(e) If, in addition to not providing replacement surety for a nonrenewed letter of credit, the self-insurer then defaults on payment of its workers' compensation liabilities, the proceeds of the letter of credit previously deposited with the accident fund and the accrued interest will be used to provide for payment of the self-insurer's workers' compensation liabilities.

(f) If the self-insurer's letter of credit remains in force and the self-insurer defaults on the payment of its workers' compensation liabilities, the department will draw the full value of the letter of credit. The proceeds will be deposited and accounted for as indicated in (d) of this subsection and, with the accrued interest, used to provide for payment of the self-insurer's workers' compensation liabilities.

(g) Legal proceedings initiated by any party with respect to the letter of credit shall be subject to the courts and laws of the state of Washington.

(11) Letters of credit provided by self-insurers as surety are subject to acceptance by the department. Acceptance will include, but not be limited to, approval of the financial condition of the banking institution issuing the letter of credit.

(a) A bank must provide to the department an audited financial statement or call report made to the banking regulatory agencies for the most recent fiscal year. The financial information from such banks must be provided with the first letter of credit issued and annually during the period that any letter of credit is in effect.

(b) A letter of credit will not be accepted if the amount of the credit exceeds the legal limit allowed to the bank.

(c) A letter of credit will not be accepted unless the issuing bank is able to accept presentment of drawings on the credit at an office in this state.

(12) Letters of credit and any amendments to letters of credit must be on forms supplied by the department. The department's interest in a letter of credit will be released if the self-insurer provides a bond or acceptable cash or securities deposited into an escrow account in the amount required by the department.

(13) Failure to provide active surety in the amount required by the department will result in the withdrawal of certification.

[Statutory Authority: RCW 51.04.020. 94-05-042, § 296-15-030, filed 2/9/94, effective 3/14/94; 93-11-064, § 296-15-030, filed 5/14/93, effective 6/14/93; 90-24-039, § 296-15-030, filed 11/30/90, effective 12/31/90; 88-12-096 (Order 88-07), § 296-15-030, filed 6/1/88; 87-05-008 (Order 87-02), § 296-15-030, filed 2/9/87; 86-14-079 (Order 86-25), § 296-15-030, filed 7/1/86; 85-06-031 (Order 85-6), § 296-15-030, filed 3/1/85; Order 77-19, § 296-15-030, filed 9/26/77; Order 72-4, § 296-15-030, filed 4/25/72; Order 71-15, § 296-15-030, filed 12/1/71.]

WAC 296-15-045 Payment of deficit. In determining a self-insurer's proper share of any deficit which must be paid to the department, pursuant to section 27(4), chapter 289, Laws of 1971 ex. sess., RCW 51.14.020(4), the following procedures shall apply.

(1) **State fund deficit.** The state fund deficit shall be the excess of liabilities over assets as shown on the state fund balance sheet for the last date of state fund coverage of the self-insurer. If assets exceed liabilities, the deficit shall be zero. If the last date of state fund coverage is other than March 31, June 30, September 30 or December 31, the state fund deficit shall be obtained by performing linear interpolation between the asset figures and between the liability figures on the two balance sheets spanning the date of last coverage, and then computing the excess of interpolated liabilities over interpolated assets. The state fund deficit shall be based on the combined status of the accident and medical aid funds, and that portion of the pension reserve fund which applies to state fund claims.

(2) **Premium.** The premium used for calculating deficit assessments shall be the combined accident and medical aid fund premiums due for the one year coverage period ending March 31, June 30, September 30 or December 31, whichever date most immediately precedes the effective date of self-insurance.

(3) **Deficit assessment formula.** The self-insurer's deficit assessment shall be determined by multiplying the state fund deficit, if any, by a "deficit share factor, " said factor to be the ratio of the self-insurer's premium to total state fund premium for the one year coverage period specified in paragraph (2), above. Members of a group self-insurance program shall be treated as individual employers for the purpose of determining their deficit assessments.

(4) **Initial deficit assessment estimate.** Prior to the effective date of self-insurance, the department shall make its best estimate of the prospective self-insurer's deficit assessment, and the prospective self-insurer shall be required to pay the estimated amount prior to being issued a certificate of self-insurance.

(5) **Subsequent adjustment of deficit assessments.** As soon as the actual data specified under the deficit assessment formula becomes available the deficit assessment shall be recalculated based on the actual data, and the self-insurer shall either receive a refund or be required to pay an additional amount, depending on the results of the calculation. The department shall make no further adjustment of the deficit assessment, except when an employer's premium is changed as the result of an audit or through discovery of a clerical error in calculation of the firm's premium. In such cases, the self-insurer's "deficit share factor" shall be recalculated based on the revised premium. Deficit share factors shall not be recalculated because of premium adjustments made under the retrospective rating plan. Payment of a deficit assessment based upon the recalculation using actual data as specified in this rule shall be a requirement for retaining a certificate of self-insurance.

(6) **Effective date.** This rule shall become effective on July 1, 1983 and shall apply to all firms self-insuring on or after that date.

[Statutory Authority: RCW 51.14.020(1). 83-07-075 (Order 83-9), § 296-15-045, filed 3/23/83.]

WAC 296-15-050 Reinsurance. (1) A self-insurer who desires to reinsure a portion of his liability, pursuant to RCW 51.14.020(5) as now or hereafter amended, shall notify the department of the name of the insurance carrier which will carry such reinsurance policy, and full details as to the extent and period of coverage of such policy. The director may periodically require information from all self-insurers as to their reinsurance program, if any, in order to determine that there is continued compliance with RCW 51.14.020(5).

(2) All copies of any insurance policy in force shall be submitted to the department, together with any modification or renewal provisions thereto which the employer has acquired for the purposes authorized in RCW 51.14.020(5) of reinsuring a portion of the employer's liability: *Provided,* That the supervisor upon request and for good cause may accept a certificate of insurance in lieu of the self-insured employer's policy of reinsurance which certifies to the monetary limits, all conditions and exceptions pertaining to payments under the self-insured employer's policy of reinsurance and in addition contains a certification that the company providing reinsurance and its personnel do not participate in the administration of the responsibilities of the self-insurer under Title 51 RCW and that such policy of reinsurance does not provide for payments in excess of eighty percent of the self-insured employer's liabilities under the provisions of Title 51 RCW.

(3) Each such policy of insurance issued or renewed on or after July 1, 1975 shall contain a provision which in substance states: That such policy is not intended to provide for the payment of any of the costs, benefits or compensation which the self-insured employer may be obligated to pay pursuant to the provisions of Title 51 RCW, in excess of eighty percent of any such liabilities as required by RCW 51.14.020(5).

[Statutory Authority: RCW 51.04.020. 85-06-031 (Order 85-6), § 296-15-050, filed 3/1/85; Order 77-19, § 296-15-050, filed 9/26/77; Order 71-15, § 296-15-050, filed 12/1/71.]

WAC 296-15-060 Administrative cost assessment. (1) Assessments levied by the department against each self-insurer shall be based on the self-insured employer's proportionate share of the administrative costs determined to be attributable to self-insurers, including expenses of other divisions of the department, the University of Washington environmental research facility, the board of industrial insurance appeals, appeals expenses and other general administrative expenses.

(2) The administrative assessment rate shall be determined on a fiscal year basis as prescribed in subsection (1) of this section. Employers certified to self-insure after the fiscal period for which costs were used to determine the assessment rate shall be assessed at a rate which does not include adjustments made for prior periods. The administrative assessment shall be based on the payments made on all claims involving the self-insured employer: *Provided,* That in any event a self-insured employer shall be subject to the payment of a minimum quarterly assessment of twenty-five dollars.

(3) Administrative cost assessments shall be payable for each quarter, by the thirtieth day following the receipt of a quarterly report form supplied by the department (SIF #6). This quarterly report form shall also provide for payment of the supplemental pension fund assessment.

(4) A self-insured employer who has, or shall hereafter, voluntarily, or involuntarily, surrender his certification as a self-insurer shall pay an adjusted administrative assessment. The amount of this adjusted administrative assessment will be determined annually and shall represent such self-insurer's portion of the administrative assessment which can be attributed directly to the operational costs of the self-insurance section. This adjusted administrative assessment shall continue until such time as all liabilities and all responsibilities of such employer have been terminated. The amount of this adjusted administrative assessment shall in no case be less than $25.00 per calendar quarter.

When such an employer has had no self-insured claim activity, excluding activity in cases of total permanent disability or death, for a period of one year, a request may be made to the department for a review to determine if there is a need to continue the adjusted administrative assessment, in which circumstances, the minimum assessment will not apply.

[Statutory Authority: RCW 51.04.020. 94-17-069, § 296-15-060, filed 8/15/94, effective 9/15/94; 93-11-064, § 296-15-060, filed 5/14/93, effective 6/14/93; 86-14-079 (Order 86-25), § 296-15-060, filed 7/1/86; Order 77-19, § 296-15-060, filed 9/26/77; Order 75-28, § 296-15-060, filed 8/29/75, effective 1/1/76; Order 74-38, § 296-15-060, filed 11/18/74, effective 1/1/75; Order 73-24, § 296-15-060, filed 11/23/73; Order 71-15, § 296-15-060, filed 12/1/71.]

WAC 296-15-065 Self-insurers' insolvency trust. (1) For the purpose of interpretation of this section, the term "insolvent self-insurer" means a self-insurer who has defaulted upon any obligation under Title 51 RCW, and with respect to which default the director has taken action authorized by RCW 51.14.060.

(2) A self-insurance insolvency fund shall be established in the office of the state treasurer. The purpose of this fund shall be to pay, to the injured workers of insolvent self-insured employers under Title 51 RCW, any unsecured benefits to which such injured workers had become entitled, and to pay for the department's associated administrative costs, including attorneys' fees.

(3) This fund shall be financed by assessment, as follows: (a) Assessments shall be levied on a post-insolvency basis against all self-insurers, including any of which have surrendered certification at any time during the thirty-six months prior to the close of a quarter for which assessments to the insolvency fund are payable: *Provided, however,* That school districts, cities and counties are exempt from assessment(s) to finance such self-insurers' insolvency fund: *Provided, further,* That school districts, cities and counties shall not have their obligations discharged, in full or in part, with moneys from said self-insurers' insolvency fund; (b) each assessment shall be a percentage of the payments made on all claims involving the self-insured employer; (c) assessments shall be levied on a quarterly basis as prescribed by the department; (d) assessments shall be payable each quarter, by the thirtieth day following the notice of assessment.

(4) The administration of an insolvent self-insurer's claims shall be the responsibility of the department until the security deposit as required by RCW 51.14.020 and/or the

recovery from any court action concerning the self-insurer's workers' compensation liabilities have been exhausted.

(5) Establishing self-insurance insolvency fund assessment rates and administering the claims of insolvent self-insurers upon depletion of remedies for reimbursement of workers' compensation expenditures made by the department as specified under subsection (4) of this section shall be the responsibility of the director, or the director's designee, after due consideration of the recommendations of a five-member insolvency trust advisory board established in this section.

(6) Assessments for the self-insurers' insolvency fund shall be in amounts deemed adequate to reimburse the accident, medical aid and/or pension reserve funds for benefits paid from these funds to injured workers of insolvent self-insurers, and for associated administrative costs, including attorneys' fees. Any and all interest earned on assessments levied and collected by the department shall become a part of the self-insurers' insolvency fund, and be distributed only for the purposes for which the fund was established.

(7) The insolvency trust advisory board shall be comprised of the director or the director's designee, three representatives of self-insured employers, and one representative of workers. Initially and thereafter, the director shall appoint the self-insurer representatives from a list of names submitted by state-wide organizations of self-insurers and others. Initially and thereafter, the director shall appoint the worker representative from a list of names submitted by an organization, state-wide in scope, which through its affiliates embraces a cross section and a majority of the organized labor of the state. Initial appointments shall be made within thirty days of the effective date of this section. Two of the initial appointees shall serve three-year terms, and two shall serve two-year terms. Thereafter, appointed representatives shall serve two-year terms. Each representative on the insolvency trust advisory board shall have one vote. The board shall act in an advisory capacity; all final decisions regarding the insolvency trust shall be made by the director or the director's designee.

(8) No later than March 31 of each year, the board shall report in writing to the workers' compensation advisory committee regarding the status of the insolvency fund as of the previous December 31, and summarize any events or transactions of interest or importance to the ongoing operation of the insolvency fund.

[Statutory Authority: RCW 51.04.020. 93-11-064, § 296-15-065, filed 5/14/93, effective 6/14/93; 88-12-096 (Order 88-07), § 296-15-065, filed 6/1/88; 86-24-014 (Order 86-40), § 296-15-065, filed 11/24/86.]

WAC 296-15-080 Statement of financial condition. Every self-insured employer shall, not later than six months following the end of its financial reporting period, submit a fully audited financial statement to the department. This statement shall be for the year just ended, and must be prepared by accountants independent of the employer. It may be the financial statement of the self-insurer's parent, but must include the financial condition of all subsidiary operations. A self-insurer whose financial statement is not available from an accounting firm within this time must make a written request to the department for an extension of the filing time. Any self-insured employer who is a political subdivision of the state, a municipal corporation, or other public entity who is subject to audit by the state auditor may submit a state auditor's report containing the employer's audited financial statement. Public entities which are audited less than once a year by the state auditor must submit a financial statement prepared internally for the years between reports of the state auditor.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-080, filed 7/1/86. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-080, filed 12/1/83, effective 1/1/84; Order 77-19, § 296-15-080, filed 9/26/77; Order 74-38, § 296-15-080, filed 11/18/74, effective 1/1/75; Order 74-29, § 296-15-080, filed 5/29/74, effective 7/1/74.]

WAC 296-15-090 Application of supplemental moneys in payment of compensation. Each employer authorized to self-insure the liabilities imposed by the industrial insurance law (Title 51 RCW) shall provide the department with a statement of their current policy of applying sick leave, health and welfare insurance benefits or any other compensation in conjunction with or as a substitute for the time loss compensation required in RCW 51.32.090.

(a) Where a self-insurer maintains a person on full salary during a period of temporary total disability due to an injury or illness compensable under Title 51 RCW, a report shall be filed with the department in accordance with WAC 296-15-070.

This report shall indicate the amount of compensation the injured worker is entitled to when computed in accordance with RCW 51.32.060. The amount, so computed and reported, shall be included in the self-insurers total claim costs and therefore be included on the quarterly report of self-insured employer (SIF #6) for the purpose of computing their administrative assessment.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-090, filed 7/1/86; Order 77-19, § 296-15-090, filed 9/26/77; Order 74-38, § 296-15-090, filed 11/18/74, effective 1/1/75.]

WAC 296-15-110 Contract with a service organization. Every self-insuring employer utilizing a service organization independent of the self-insurers firm, to aid or participate in any manner in the administration of their responsibilities; including but not limited to: Claims-handling, payment of compensation, accumulation of data and completion of required reports, (both quarterly and annual) or any other such administrative function; shall forward to the department, a copy of the contract which exists between the two, or more, parties for such services: *Provided,* That any clause or clauses in such contract relating to the monetary consideration between the parties may be deleted: *Provided further,* That any provision in such contract relating to the monetary consideration which may increase or decrease such consideration on the basis of an increase or decrease of an employer's claims must be explained in detail and the department may require the employer to supply an unaltered copy of the agreement where it appears reasonably necessary for the purpose of clarification.

Any time a self-insurer elects to change service organizations, or change or modify the existing contract, a copy shall be forwarded to the department within ten working days of the effective date of the new contract or change.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-110, filed 7/1/86; Order 74-38, § 296-15-110, filed 11/18/74, effective 1/1/75.]

WAC 296-15-120 Log of occupational injuries and illnesses. Each self-insured employer shall, upon request, provide the department any or all information contained on the log of occupational injuries and illnesses (WISHERS #100) maintained in accordance with chapter 296-27 WAC.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-120, filed 7/1/86; Order 74-38, § 296-15-120, filed 11/18/74, effective 1/1/75.]

WAC 296-15-130 Administration of self-insurance. Every self-insurer shall conduct the administration of its self-insurance plan through the services of a person knowledgeable in the application of the industrial insurance law and the rules and regulations for self-insurance.

The person or persons employed or retained as administrators, by either a self-insurer or an employer making application for certification as a self-insurer, must be able to:

(1) Demonstrate, in a manner satisfactory to the department, a thorough knowledge of the industrial insurance laws and the rules and regulations for self-insurance, and

(2) Demonstrate, in a manner satisfactory to the department, an expertise in the adjudication of claims, and

(3) Have the authority and ability to make prompt payment of all compensation and assessments which may become due from such self-insurer; and

(4) Have the authority to make prompt decisions regarding claims adjudication and awards required by Title 51 RCW.

[Order 74-38, § 296-15-130, filed 11/18/74, effective 1/1/75.]

WAC 296-15-135 Contact person. Each self-insurer shall provide the department with the name, title, address, and phone number of a contact person who will be the liaison with the department regarding self-insurance matters, and to whom all self-insurance correspondence will be sent. The self-insurer is to give written notice of any change in contact person within ten working days of the change.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-135, filed 7/1/86.]

WAC 296-15-140 Expense of out-of-state audit. The audit of self-insurance plans at locations outside the state of Washington, shall be at the expense of the self-insurer and the expense incurred in making such audit shall be paid by the self-insurer.

Such expenses shall be calculated at the usual and normal per diem and travel expense rates established by law and in effect at the time the expenses are incurred.

[Order 74-38, § 296-15-140, filed 11/18/74, effective 1/1/75.]

WAC 296-15-145 Expense of withdrawn certificate audit. A self-insurer whose certificate has been withdrawn, whether surrendered voluntarily with the director's approval or involuntarily by order of the director, shall pay expenses incurred by the director, or his representative, in conducting an audit as may be required for the purposes of RCW 51.14.050 through 51.14.090.

[Order 74-38, § 296-15-145, filed 11/18/74, effective 1/1/75.]

WAC 296-15-150 Accident prevention program. Applicants for self-insurance certification are required by RCW 51.14.030(4) to demonstrate to the department the existence of a safety organization which indicates a record of accident prevention within their places of business. Chapter 296-24 WAC sets forth the requirements for an employer's accident prevention program. Accident prevention programs must comply with these rules in order for certification to be granted. Applicants whose programs do not meet these requirements will be denied certification. Employers who are denied certification due to deficient accident prevention programs may be required to wait six months before being considered for certification again. The self-insurer's maintenance of an accident prevention program is also a requirement for continued certification. (RCW 51.14.080(1).)

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-150, filed 7/1/86; Order 74-38, § 296-15-150, filed 11/18/74, effective 1/1/75.]

WAC 296-15-170 Cessation of business—Change of status. (1) A self-insurer that proposes to cease doing business entirely, or proposes to cease doing business in Washington, or proposes to dispose of, by sale or otherwise, the controlling interest of the business for which the certificate was issued shall immediately notify the department in writing of such proposed action and shall, upon request, surrender its certificate for cancellation.

(2) A self-insurer that amends its articles, charter or agreement of incorporation, association, copartnership or sole proprietorship so as to change its identity or business structure or in any manner so as to materially alter its status as a self-insured employer as it existed at the time of the issuance of its certificate shall, within thirty days, notify the department, in writing, of such action and provide the department with information regarding any change in the status of such self-insured employer. The department may, at its discretion, ask for copies of any documents deemed necessary regarding such transactions.

(3) When a self-insurer sells, divests, or spins off a part of itself, self-insurance coverage for the separated part ends with the date of separation from the self-insurer. The selling self-insurer remains responsible for the liability for claims against the separated part occurring up to the date of the separation unless the department approves an alternative. If the separating part desires to be a self-insurer, an application for certification must be received by the department thirty days before the date of certification. If certification cannot be granted before the date of separation, industrial insurance coverage must be purchased effective with the date of separation.

(4) An employer which voluntarily surrenders its certificate to self-insure or which has had its certificate withdrawn by the department must continue to provide for the payment of benefits on all claims occurring during its period of self-insurance.

[Statutory Authority: RCW 51.04.020. 94-05-042, § 296-15-170, filed 2/9/94, effective 3/14/94; 88-12-096 (Order 88-07), § 296-15-170, filed 6/1/88; Order 75-28, § 296-15-170, filed 8/29/75, effective 1/1/76.]

WAC 296-15-200 Claims log—Evaluation. Beginning January 1, 1976, each self-insurer shall maintain a log of all claims filed by any worker injured in its employ or any worker having contracted an occupational disease as a result of his/her employment with the self-insurer.

The claims log shall contain the following minimum information: The injured worker's name, the date of the injury or first knowledge of an occupational disease, the claim number assigned by the department, the date the claim is closed, and whether the claim is compensable or treatment only. Additional information may be recorded at the discretion of the employer.

[Statutory Authority: RCW 51.04.020. 86-14-079 (Order 86-25), § 296-15-200, filed 7/1/86; 83-07-009 (Order 83-8), § 296-15-200, filed 3/8/83; Order 77-19, § 296-15-200, filed 9/26/77; Order 75-28, § 296-15-200, filed 8/29/75, effective 1/1/76.]

WAC 296-15-210 Supplementation of temporary total disability compensation by self-insured employers. Self-insured employers shall make benefit payments to workers injured in their employ in accordance with RCW 51.32.090 and such increased payments as required by RCW 51.32.073.

When a self-insured employer is required to increase the amount of temporary total disability benefits being paid an injured worker and where legislation provides for such increased benefits to be paid from the supplemental pension fund, the department will reimburse the employers in the amount of the increase.

Self-insured employers will be reimbursed from the supplemental pension fund upon their certification that payment was made of such increased benefits to qualified injured workers. Applications for reimbursement from the supplemental pension fund shall be filed quarterly on forms provided by the department.

[Order 77-19, § 296-15-210, filed 9/26/77; Order 75-36, § 296-15-210, filed 10/28/75.]

WAC 296-15-215 Cash, bond or assignment of account alternative for death or permanent total disability. An "assignment of account" as used in this rule means a legal instrument executed by a self-insurer and a federally or state charted [chartered] commercial banking institution authorized to conduct business in the state of Washington, for the benefit of the department of labor and industries, which accomplishes the following:

(1) Identifies an existing account on deposit with the banking institution in the name of the self-insurer, which account contains an amount no less than the amount deemed by the department to be sufficient to insure the payment of pension benefits required by law for the claim on which the assignment of account is made, above and beyond any and all other existing assignments on that account.

(2) Binds the self-insurer to maintain a balance in that account at least equal to the current present cash value of the pension benefits provided by law on the claim for which the assignment of account is made, above and beyond all other assignments on that account, for the life of the claim. Present cash values shall be revised annually by the department in conjunction with the insurance commissioner's report as prescribed in RCW 51.44.140. Quarterly payments of pension, if made from the assigned account, shall not reduce the account balance below the present cash value last established by the department on the claim.

(3) Authorizes the department of labor and industries, upon default of the self-insurer, in any payment of any obligation on the claim for which the assignment of account has been made, to immediately without notice withdraw from the account without obligation of reimbursement of any amount, up to and including the entire amount specified in the assignment of account document, necessary to implement the cash alternative prescribed in RCW 51.44.070(1).

Upon establishment of a death or permanent total disability obligation, the self-insured employer may elect to pursue the bond or assignment of account alternative outlined in RCW 51.44.070(2). In all such cases, cash, bond or assignment of account, the department shall commence to pay benefits immediately upon issuance of an order establishing such obligation. In the event there is a retroactive payment of benefits in the establishment of such obligation, and the self-insured employer elects to pursue RCW 51.44.070(2), this payment shall be made at the time the employer submits the required cash deposit. All further obligations paid by the department from the pension reserve fund shall be reimbursed to the department by the self-insured through the quarterly report system in accordance with RCW 51.44.070(2). Upon election of RCW 51.44.070(2) the self-insured employer shall submit a bond or assignment of account in the amount deemed by the insurance commissioner to be reasonably sufficient to insure payment of the pension benefits provided by law. Such bond or assignment of account and required cash deposit shall be filed with the self-insurance section no later than sixty days after the funding order establishing the amount of the death or permanent total disability obligation was communicated to the parties. The bond or assignment of account alternative as prescribed by RCW 51.44.070(2) shall be allowed only once on any given claim elected at the time of the establishment of such obligation. In the event the amount of the bond is subsequently deemed insufficient and the self-insurer is unable to secure the required bond obligation the employer shall deposit cash into the reserve fund, pursuant to RCW 51.44.070(1), to replace the bond obligation. In the event the amount of the assignment of account is subsequently deemed insufficient and the self-insurer is unable to provide the required assignment of account, the employer shall deposit cash into the reserve fund, pursuant to RCW 51.44.070(1), to replace the assignment of account. Funds available within the existing assignment of account shall, in this instance, be withdrawn by the department, deposited in the reserve fund, and credited toward the employer's obligation for the claim pursuant to RCW 51.44.070(1).

A separate assignment of account shall be established for each pension and, in case of failure of a banking institution carrying an assignment of account, the employer is responsible for the total amount of the obligation. Upon such failure of a banking institution, the self-insured employer shall,

within thirty days, 1) establish a new assignment of account pursuant to this rule, or 2) deposit cash into the reserve fund to replace the obligation. If an employer terminates its self-insured status, the assignment of account will be placed with the department. The required reserve will be determined by the insurance commissioner and any excess will be returned to the employer.

[Statutory Authority: RCW 51.04.020. 88-12-096 (Order 88-07), § 296-15-215, filed 6/1/88; 85-06-031 (Order 85-6), § 296-15-215, filed 3/1/85. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-215, filed 12/1/83, effective 1/1/84. Statutory Authority: RCW 51.04.020 and Title 51 RCW. 81-23-047 (Order 81-27), § 296-15-215, filed 11/18/81.]

WAC 296-15-220 Second injury fund. This rule is promulgated pursuant to RCW 51.16.120 and 51.44.040 and is intended to administrate the second injury fund requirements in RCW 51.16.120 and 51.44.040:

(1) There will be a separate accounting of state fund and self-insurance transactions within the second injury fund. Self- insurance second injury claim costs and contributions will be recorded in the self-insurers' account. State fund second injury claim costs and contributions will be recorded in the state fund account.

(2) Self-insurer contributions into the second injury fund will be made quarterly in amounts deemed sufficient to meet anticipated self-insurers' second injury claim costs. The self-insurer assessment base shall be total claim payments, as defined for administrative assessments. During the period of time before the first self-insurer second injury claim is approved, self-insurer contributions will be discontinued if the balance in the self-insurer account exceeds $200,000.

(3) State fund payments into the second injury fund will be made from the accident fund and will be the difference between the total cost of all second injury fund claims and the contributions received from self-insurers.

[Order 77-19, § 296-15-220, filed 9/26/77.]

WAC 296-15-255 Hearings for corrective action or withdrawal of certification. (1) This section applies only to proceedings to withdraw certification or for corrective action instituted by the director in response to a petition filed with the department pursuant to RCW 51.14.090. This section shall not apply to actions instituted by the director to withdraw certification pursuant to RCW 51.14.080 nor to corrective action instituted by the director pursuant to RCW 51.14.095.

(2) When there is a petition for such action by any employee or union or association having a substantial number of employees in the employ of the self-insured, the director or the director's designee may, in the director's or designee's sole discretion, hold a hearing to determine whether or not there are grounds for action. In reviewing such a petition, the director or the designee may require additional information from a petitioner before deciding whether to hold a hearing under this section.

(3) Any such hearing shall be conducted in accordance with the department's rules governing administrative hearings. The director will notify all parties at least twenty days prior to the date of the hearing. The notice shall include the following:

(a) Nature of proceedings;

(b) Legal authority for holding the hearing;

(c) Reference to the section of statutes and rules involved;

(d) A description of matters asserted;

(e) The date, time, and place of the hearing.

All parties will be allowed to respond and present evidence and arguments on the issues involved.

Within thirty days of the hearing date, the department will provide written notification of the proceedings, findings, and conclusions to all hearing participants.

(4) If, following the hearing, the decision is to withdraw certification or take corrective action, such action shall comply with the provisions of RCW 51.14.090 and/or 51.14.095.

[Statutory Authority: RCW 51.32.190 and 51.14.090. 96-21-145, § 296-15-255, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 51.04.020. 86-18-037 (Order 86-35), § 296-15-255, filed 8/28/86.]

WAC 296-15-260 Corrective action or withdrawal of certification. (1) Corrective action against a self-insured employer shall be by order and notice. A notice of corrective action shall include the nature and specifics of the findings and may include the following:

(a) Probationary certification status for the self-insured employer for a period not to exceed one year;

(b) Mandatory training to correct areas of program deficiency to be approved by the department.

The subject matter to be covered shall be specified in the notice of corrective action. Personnel required to attend and the time period within which the training is to be conducted will also be identified.

(c) Monitoring activities of the self-insured employer for a specified period of time to determine progress regarding correction of program deficiencies may be required. The department may require submission of complete and accurate records and/or conduct an audit to verify program compliance.

(d) If there is a contract between the self-insured employer and a service organization which has been filed with the department (WAC 296-15-110), the corrective action order may specify and require that the service organization be subject to mandatory training and monitoring of activity provisions of the order.

(e) The corrective action order shall specify a time frame for submission of progress reports to the department's self-insurance section.

(f) During the first thirty days following the corrective action order, the self-insured employer shall submit a plan for the implementation of corrective action which shall include specific completion dates. If the plan is determined to be incomplete or inadequate, the department's self-insurance administrator shall notify the self-insurer of the necessary requirements or changes needed, and shall specify the date by which an amended plan shall be submitted.

(2) If sufficient grounds for decertification exist, an order and notice will be issued. The order and notice will include the following:

(a) The grounds upon which the determination is based.

(b) The period of time within which the grounds existed or arose.

(c) The date, not less than ninety days after the self-insured employer's receipt of the order and notice, when certification will be withdrawn.

(d) Provisions as stipulated by RCW 51.14.090.

(3) Upon conclusion of the probationary certification period in the case of corrective action, the program deficiencies requiring corrective action by the self-insured employer shall be evaluated by the department and a written report sent to affected parties. Program activities may be reaudited beyond the stated time period in order to assess continuing compliance with the objectives of the corrective action directives.

(4) If, at the conclusion of the probationary period, program deficiencies continue to exist, the department shall decide whether to extend the period of probation, require additional corrective action or proceed with decertification of the self-insured employer. An order and notice stating the decision shall be issued.

[Statutory Authority: RCW 51.32.190 and 51.14.090. 96-21-145, § 296-15-260, filed 10/23/96, effective 11/25/96. Statutory Authority: RCW 51.04.020. 86-18-037 (Order 86-35), § 296-15-260, filed 8/28/86. Statutory Authority: RCW 51.04.020(1). 83-24-027 (Order 83-22), § 296-15-260, filed 12/1/83, effective 1/1/84.]

WAC 296-15-400 Self-insured workers' rights and obligations. How must a self-insurer notify its workers of their rights and obligations under the industrial insurance laws?

Self-insurers must notify workers of their industrial insurance rights and obligations at the following times:

(1) Within thirty days of hire, provide a form substantially similar to the one page Workers' Compensation Filing Information L&I form F207-155-000.

(2) When a worker files a claim, provide the following information in writing:

(a) The current edition of the department's pamphlet Employees of Self-Insured Businesses Guide to Industrial Insurance Benefits L&I pamphlet P207-085-000 or this same information in substantially similar format; and

(b) The name, address, and phone number of the person or organization handling the worker's claim.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-400, filed 12/2/98, effective 1/2/99.]

WAC 296-15-405 Filing a self-insured claim. (1) **What form is used to report a self-insured worker's industrial injury or occupational illness?**

The reporting form for a self-insured worker's industrial injury or occupational illness is the Self-Insurer Accident Report (SIF-2) L&I form F207-002-000. Self-insurers must obtain these forms from the department and must report their workers' industrial injuries and illnesses to the department with SIF-2s. The department tracks the claim numbers assigned to self-insurers.

When notified of injury or illness, the self-insurer must provide the worker with this prenumbered form and assistance in filing a claim. The self-insurer must provide the worker the designated copy of the completed SIF-2 (which includes an explanation of the worker's rights and responsibilities) within five working days of completion.

(2) **What form does a doctor use to report a self-insured worker's industrial accident or occupational illness?**

Physicians should report a self-insured claim with a Physician's Initial Report (PIR) L&I form F207-028-000 when a self-insured worker has an industrial injury or is notified of an occupational illness. Replacements are acceptable.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-405, filed 12/2/98, effective 1/2/99.]

WAC 296-15-420 After a self-insured claim is filed. (1) **What must a self-insurer do when beginning time loss (TL) benefits on a claim?**

When beginning time loss payments, a self-insurer must:

	Send to the worker	Send to the department	The department will
At the same time as the first TL payment.	A complete and accurate SIF-5[1] and SIF-5A[2].		
Within 5 working days of first TL payment.		Copies of the SIF-2, SIF-5, and SIF-5A.	Allow the claim UNLESS a request for interlocutory order (see subsection (2)) or denial (see subsection (3)) has been received.

[1] The SIF-5 is the Self-Insurer's Report on Occupational Injury or Disease. Use a form substantially similar to L&I form F207-005-000.

[2] The SIF-5A is the Time Loss Calculation Rate Notice. Use a form substantially similar to L&I form F207-156-000.

(2) **How must a self-insurer request an interlocutory[1] order?**

When requesting an interlocutory order from the department, a self-insurer must:

	Send to the worker	Send to the department	The department will	And the self-insurer pays
Within 60[2] days of claim filing.	A complete and accurate SIF-5 and SIF-5A if TL was paid.	Copies of the SIF-2, SIF-5 (with the interlocutory order box checked), SIF-5A, AND all medical and other pertinent information AND a reasonable explanation why an investigation is needed.	If it agrees, issue an interlocutory order.	Provisional TL if the worker is eligible AND other benefits as entitled. Ongoing medical treatment and vocational services are NOT PAYABLE unless the claim is allowed.
			If it disagrees, issue an allowance order if the facts show the claim should be allowed.	TL if the worker is eligible, and other entitled benefits.

[1] An interlocutory order places a claim in provisional status while the self-insurer investigates the validity of the claim.

[2] When not specified, time is in calendar days.

(3) **How must a self-insurer request claim denial from the department?**

When requesting claim denial from the department, a self-insurer must:

	Send to the worker	Send to the department	The department will	And the self-insurer pays
Within 60 days of claim filing.	SIF-4.* Copy to the attending or treating doctor.	SIF-4 AND all medical and other pertinent information supporting denial.	If it agrees, issue a denial order. The denial order will restate the self-insurer's right to request reimbursement of provisional TL from the worker.	For all medical evaluations and diagnostic studies used to make the determination.
			If it finds insufficient information to make a decision, issue an interlocutory order AND direct the employer to obtain the necessary information.	Provisional TL if the worker is eligible and other benefits as entitled. Ongoing medical treatment and vocational services are NOT PAYABLE unless the claim is allowed.
			If it disagrees, issue an allowance order if the facts show the claim should be allowed.	TL if the worker is eligible AND other entitled benefits.

* The SIF-4 is the Self-Insured Employer's Notice of Denial of Claim. Use a form substantially similar to L&I form F207-163-000.

(4) **What if a self-insurer does not request allowance, denial, or an interlocutory order for a claim within sixty days?**

If a self-insurer does not request allowance, denial, or an interlocutory order within sixty days, the department will intervene and adjudicate the claim. The department may obtain additional medical information to make the determination. The claim remains in provisional status until the department makes the determination.

The exception to this requirement is the allowance of medical only claims. Self-insurers are not required to request allowance for medical only claims.

(5) **Must a self-insurer submit an SIF-5 each time the department requests one?**

A self-insurer must submit a complete and accurate SIF-5 within ten working days of receipt of a written request from the department.

(6) **What must a self-insurer do when the department requests information on a claim by certified mail?**

A self-insurer must submit all information in its possession concerning the claim within ten working days of receipt of the department's request by certified mail.

(7) **How long does a self-insurer have to provide a copy of the claim file to the worker or worker's representative?**

A self-insurer must provide a copy of the claim file within fifteen days of receiving a written request from the worker or worker's representative. Unless the worker or representative requests a particular portion of the file, the self-insurer must provide a copy of the entire file.

(8) **When may a self-insurer charge a worker or his/her representative for a copy of the claim file?**

A self-insurer must provide the first copy of a claim file free of charge. Upon receipt of a subsequent written request, the self-insurer must provide any material not previously supplied free of charge. The self-insurer may charge the worker or any representative a reasonable fee for any material previously supplied.

(9) **What must a self-insurer do when it terminates time loss because it has found the worker ineligible for vocational services?**

Within five working days of time loss termination, a self-insurer must notify the department it has found the worker ineligible for vocational services. Use an Employability Assessment Report (EAR) substantially similar to L&I form F207-121-000.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-420, filed 12/2/98, effective 1/2/99.]

WAC 296-15-450 Closure of self-insured claims. (1) **Who closes self-insured claims?**

The department has the authority to close all self-insured claims. Self-insurers have the authority to close certain claims.

Within two years of claim closure, the department may require a self-insurer to pay additional benefits on a claim the self-insurer closed if the self-insurer:

(a) Made an error in benefits paid; or

(b) Violated the conditions of claim closure.

(2) **What claims may a self-insurer close?**

A self-insurer may close	If the	With time loss?	Other requirements?	With PPD?	If a previous determinative order was issued?
Medical only (MO) claims	Claim was filed on or after 07/26/81	Without	None.	Without[1]	May not be closed by the employer.
Time loss (TL) claims	Injury/illness occurred on or after 07/01/86	With	1. Not if the department issued an order resolving a dispute; AND 2. Only if the worker returned to work with the employer of record at the same job or at a job with comparable wages and benefits.[2]	Without[1]	May be closed by the employer if the order did not resolve a dispute
Permanent partial disability (PPD) claims	Injury/illness occurred on or after 08/01/97	With or without	1. Not if the department issued an order resolving a dispute; AND 2. Only if the worker returned to work with the employer of record at the same job or at a job with comparable wages and benefits;[2] AND 3. Only if the closing medical report was sent to the attending or treating doctor and 14[3] days allowed for response.	With	May be closed by the employer if the order did not resolve a dispute.

[1] A self-insurer may not close a claim with PPD if the injury or illness occurred before 08/01/97.

[2] Comparable means the wages and benefits are at least ninety-five percent of the wages and benefits received by the worker at the time of injury.

[3] When not specified, time is in calendar days.

(3) **When a self-insurer is closing a PPD claim, what must it do with the closing medical report?**

When a self-insurer is closing a PPD claim, it must send the closing medical report to the attending or treating doctor, and the doctor must be allowed fourteen days to respond. When the attending or treating doctor responds:

Within 14 days	And the doctor AGREES with	And the doctor DISAGREES with	Then the self-insurer	
Within	Fixed and stable and PPD rating		MAY	Close the claim.
Does not respond			MAY	Close the claim
Within or before the order is issued		Fixed and stable	MUST	1. Obtain a supplemental medical opinion from (an) examiner(s) listed on the department's approved examiner's list; OR 2. Forward the claim to department for closure. The department may require additional medical examinations.
Within or before the order issued	Fixed and stable	PPD rating	MUST	1. Obtain a supplemental medical opinion from (an) examiner(s) listed on the department's approved examiner's list; OR 2. Forward the claim to department for closure. The department may require additional medical examinations.
Not within, after the order is issued, but before the order is final		Fixed and stable and/or PPD rating	MUST	Forward the claim including the doctor's response to the department as a protest within five working days of receipt.

(4) **What must a self-insurer do with a closing medical report, regardless of who is closing the claim?**

A self-insurer must send the closing medical report to the attending or treating doctor. If the doctor responds that he/she does not concur with the results, the self-insurer must:

(a) Obtain a supplemental medical opinion from (an) examiner(s) listed on the department's approved examiner's list in order to do the closing action itself; OR

(b) Forward the claim to department for closure. The department may require additional medical examinations.

(5) **When a self-insurer is closing a claim, what written notice must it provide to the worker and attending or treating doctor?**

At claim closure, a self-insurer must send the closing order to the worker and attending or treating doctor.

(a) For a MO claim, use a Self Insurer's Claim Closure Order and Notice substantially similar to F207-020-111.

(b) For a TL claim, use a Self Insured Employers' Time Loss Claim Closure Order and Notice substantially similar to F207-070-000. Include a complete and accurate SIF-5 substantially similar to L&I form F207-005-000 with the worker's copy.

(c) For a PPD claim:

(i) When no TL or loss of earning power (LOEP) was paid, use a form substantially similar to L&I form F207-165-000 (MO with PPD). Include a complete and accurate SIF-5 with the worker's copy.

(ii) When TL or LOEP was paid, use a form substantially similar to L&I form F207-164-000 (TL with PPD). Include a complete and accurate SIF-5 with the worker's copy.

(6) **When a self-insurer is closing a claim, what information must it submit to the department?**

A self-insurer must submit to the department:

(a) MO claim closures by the end of the month following closure. These may be transferred electronically or reported by paper.

(i) Closures transferred electronically must be in the department's format.

(ii) Closures submitted in paper must include the SIF-2 L&I form F207-002-000 showing the date of closure and any vocational services provided.

(b) TL and PPD claim closures at the time of closure. Include copies of each of the following:

(i) SIF-2 if not previously submitted.

(ii) Closure order.

Note: If no one protests the self-insurer's closure order, it will become final and binding in sixty days, just like a department order.

(iii) A PPD Payment Schedule, if necessary, substantially similar to L&I form F207-162-000.

(A) A payment schedule is required when the amount of the award is more than three times the state's average monthly wage at the date of injury. At initial/down payment, send copies to the worker and the department.

(B) The first payment of the PPD award must be paid within five working days of claim closure. Continuing payments must be paid according to the established payment schedule.

(iv) A complete and accurate SIF-5 (with the Rehabilitation Outcome Report (ROR) portion completed if vocational services were provided) showing all requirements for closure have been met, any TL or LOEP paid, period of payment, and total amount paid.

(7) **When the department is closing a claim, what must the self-insurer submit when requesting claim closure?**

When a self-insurer is asking the department to close the claim, it must submit:

(a) A complete and accurate SIF-5 (with the ROR portion completed if vocational services were provided); and

(b) All medical and other pertinent information (not previously submitted to the department).

(8) **When the department has closed a PPD claim, when must the self-insurer create a payment schedule?**

When the department has closed a PPD claim, the self-insurer must create a PPD Payment Schedule substantially similar to L&I form F207-162-000 when the amount of the award is more than three times the state's average monthly wage at the date of injury. At initial/down payment, send copies to the worker and the department.

(9) **When the department has closed a PPD claim, when must the self-insurer make the first payment of the award?**

When the department has closed a PPD claim, the self-insurer must make the first payment of the award without delay. Continuing payments must be paid according to the established payment schedule.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-450, filed 12/2/98, effective 1/2/99.]

WAC 296-15-480 After a self-insured claim is closed. (1) **When must a self-insurer submit a worker's written protest or appeal to the department?**

A self-insurer must submit a written protest or appeal by a worker to the department within five working days of receipt. The date the protest or appeal is received by the self-insurer is considered the date the protest or appeal is received by the department.

(2) **When must a self-insurer forward an application to reopen a claim to the department?**

A self-insurer must forward an application to reopen a claim to the department within five working days of receipt.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-480, filed 12/2/98, effective 1/2/99.]

WAC 296-15-490 When a self-insured claim is on appeal. (1) **How may department orders be defended in self-insured appeals?**

The department may ask the office of the attorney general to represent the department at the board of industrial insurance appeals.

(2) **What must a self-insurer send to the department when any party appeals a claim to superior or appellate court?**

When any party appeals a claim to superior or appellate court, the self-insurer must promptly send to the department copies of the notice of appeal, judgment, and all other relevant information.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-490, filed 12/2/98, effective 1/2/99.]

WAC 296-15-495 Third party action on a self-insured claim. What must a self-insurer send to the department when there is a third party action?

When there is a third party action, in addition to fulfilling the statutory requirements, the self-insurer must send the department copies of:

When	What
Upon notification	Written indication of the worker's election.
After recovery of damages	1. Signed settlement agreement or court order; and 2. Total amount of attorney fees and costs; and 3. Total amount of benefits paid, including TL, PPD, and medical, excluding payments for IMEs.

[Statutory Authority: RCW 51.32.190(6), 51.32.055 (8)(a) and (9)(a). 98-24-121, § 296-15-495, filed 12/2/98, effective 1/2/99.]

Chapter 296-15A WAC
INDUSTRIAL INSURANCE DISCRIMINATION

WAC

296-15A-010 Definitions.
296-15A-020 Filing a complaint of discrimination.

WAC 296-15A-010 Definitions. For the purposes of this chapter, the following words shall have these meanings:

(1) "Director" shall mean the director of the department of labor and industries of the state of Washington.

(2) "Employee" shall have the same meaning as that defined in [RCW] 51.08.180 and 51.08.185.

(3) "Employer" shall have the same meaning as defined in RCW 51.08.070.

[Statutory Authority: 1985 c 347 § 8 and RCW 51.04.020. 86-01-016 (Order 85-35), § 296-15A-010, filed 12/9/85.]

WAC 296-15A-020 Filing a complaint of discrimination. (1) Any employee who believes that he or she has been discharged or otherwise discriminated against by an employer in violation of this section may file a complaint with the director alleging discrimination within ninety days of the date of the alleged violation. Upon receipt of such complaint, the director shall cause an investigation to be made as the director deems appropriate. Within ninety days of the

receipt of the complaint filed under this section, the director shall notify the complainant of his or her determination. If upon investigation, it is determined that this section has been violated, the director shall bring an action in the superior court of the county in which the violation is alleged to have occurred.

(2) Who may file. A complaint of discrimination may be filed by the employee.

(3) Nature of filing. A complaint must be filed in writing; however, no particular form of complaint is required.

(4) Place of filing. The complaint should be filed with the director of the department of labor and industries. The complaint should be sent to the Director of the Department of Labor and Industries, Olympia, Washington 98504.

[Statutory Authority: 1985 c 347 § 8 and RCW 51.04.020. 86-01-016 (Order 85-35), § 296-15A-020, filed 12/9/85.]

Chapter 296-16 WAC

EMPLOYER—WORKER REEMPLOYMENT INCENTIVES

WAC

296-16-010 Premium waived for employment of preferred worker.

WAC 296-16-010 Premium waived for employment of preferred worker. In order to implement the provisions of RCW 51.16.120(3) by way of encouraging employment of injured workers who are not reemployed by the employer at the time of injury, the following provisions are adopted:

Any employer who employs a "preferred worker" as defined in these rules shall be excused from the payment of industrial insurance premiums and/or accident costs under the circumstances and conditions herein provided:

(1) A "preferred worker" may be classified as such by the department when the supervisor or his or her designee shall determine, in his or her discretion, that such person has sustained an industrial injury or occupational disease under our state Industrial Insurance Act which prevents the worker from returning to work with the former employer and that such injury or occupational disease is substantially impairing the likelihood of such worker's reemployment with other employers. A worker may be certified as a preferred worker for a period not to exceed thirty-six calendar months.

(2) Any state fund employer, other than the employer at the time of injury or exposure, who employs a "preferred worker" shall be excused, during the period of employment of such worker but not to exceed thirty-six calendar months, from the payment of any accident fund premiums and medical aid premiums which would otherwise be due based upon such employment.

(3) In the event that a further injury or occupational disease is sustained by a reemployed "preferred worker" during the first thirty-six months subsequent to the hiring of such "preferred worker, " while in the employ of the accepting employer, such employer, whether insured by the state fund or self-insured, shall not be charged with the costs of any such claim which would otherwise be charged to or paid by such employer. Such costs shall be charged against the second injury fund.

The provisions of subsections (2) and (3) of this section shall apply only if the intent to hire form is completed and received by the department within sixty days from the first day of employment. Receipt of the intent to hire form authorizes the department to assign the appropriate risk classification to the employers' account.

[Statutory Authority: RCW 51.16.120(3) and 51.32.095. 88-21-022 (Order 88-24), § 296-16-010, filed 10/10/88. Statutory Authority: RCW 51.04.020(1) and 51.16.120(3). 85-13-027 (Order 85-12), § 296-16-010, filed 6/11/85. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 80-18-033 (Order 80-24), § 296-16-010, filed 12/1/80, effective 1/1/81.]

Chapter 296-17 WAC

GENERAL REPORTING RULES, CLASSIFICATIONS, AUDIT AND RECORDKEEPING, RATES AND RATING SYSTEM FOR WASHINGTON WORKERS' COMPENSATION INSURANCE

WAC

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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-17-010 Seventy-five percent of average cost of pension claims—Industrial insurance base rates and medical aid rates. [Order 70-11, § 296-17-010, filed 11/30/70, effective 1/1/71; Order 69-5, § 296-17-010, filed 12/1/69; Order 68-8, § 296-17-010, filed 11/27/68, effective 1/1/69; General Order 1-67, filed 11/20/67, effective 1/1/68; General Order 1-66, filed 11/28/66, effective 1/1/67; General Order 1-65, filed 11/30/65, effective 1/1/66.] Repealed by Order 71-14, filed 12/1/71, effective 1/1/72.

296-17-020 Agricultural workers. [Order 68-9, § 296-17-020, filed 2/26/69, effective 4/1/69.] Repealed by Order 71-14, filed 12/1/71, effective 1/1/72.

296-17-030 Agricultural workers—Definition of casual employee. [Order 68-9, § 296-17-030, filed 2/26/69, effective 4/1/69.] Repealed by Order 71-14, filed 12/1/71, effective 1/1/72.

296-17-040 Agricultural workers—Payroll audit equivalent for hours of work. [Order 68-9, § 296-17-040, filed 2/26/69, effective 4/1/69.] Repealed by Order 71-14, filed 12/1/71, effective 1/1/72.

296-17-100 Premium payments—Quarterly reports. [Order 72-12, § 296-17-100, filed 7/18/72; Order 71-14, § 296-17-100, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-110 Determining accident fund premiums—Cost experience. [Order 72-19, § 296-17-110, filed 11/30/72, effective 1/1/73; Order 71-14, § 296-17-110, filed 2/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-120 Merit rating plan. [Order 72-19, § 296-17-120, filed 11/30/72, effective 1/1/73; Order 71-14, § 296-17-120, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-130 Credibility table for industrial insurance rates. [Order 72-19, § 296-17-130, filed 11/30/72, effective 1/1/73; Order 71-14, § 296-17-130, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/19/73, effective 1/1/74.

296-17-140 Average cost of pension claims—Effective date. [Order 71-14, § 296-17-140, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-150 Basis for determining medical aid premium. [Order 71-14, § 296-17-150, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-160 Qualifications for employer groups or workmen's compensation insurance. [Order 71-14, § 296-17-160, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-170 Dividends. [Order 71-14, § 296-17-170, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-180 Industrial insurance (accident fund) base rates and medical aid rates by class of industry. [Order 72-19, § 296-17-180, filed 11/30/72, effective 1/1/73; Order 72-12, § 296-17-180, filed 7/18/72; Order 71-14, § 296-17-180, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-190 Notice of employer inclusion—Reporting of hours. [Order 71-14, § 296-17-190, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-200 Minimum premium for elective adoption. [Order 71-14, § 296-17-200, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74.

296-17-210 Assessment for supplemental pension fund. [Order 73-16, § 296-17-210, filed 8/27/73; Order 72-16, § 296-17-210, filed 8/4/72; Order 71-14, § 296-17-210, filed 12/1/71, effective 1/1/72.] Repealed by Order 73-22, filed 11/9/73, effective 1/1/74. Second repeal by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-310 General rules and instructions. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-310, filed 5/31/91, effective 7/1/91; 89-24-051 (Order 89-22), § 296-17-310, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-16-012 (Order 88-12), § 296-17-310, filed 7/22/88, effective 1/1/89; 88-12-050 (Order 88-06), § 296-17-310, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-310, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-310, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-310, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-310, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-310, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-310, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-310, filed 11/30/77, effective 1/1/78; Order 75-28, § 296-17-310, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-310, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-310, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98,

effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-320 General definitions. [Statutory Authority: RCW 51.04.020. 95-08-052, § 296-17-320, filed 4/3/95, effective 7/1/95. Statutory Authority: RCW 51.04.120. 91-24-057, § 296-17-320, filed 11/29/91, effective 1/1/92. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-320, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-320, filed 5/30/86, effective 7/1/86; 85-06-026 (Order 85-7), § 296-17-320, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-320, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-320, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-330 Officers or members of a corporate employer. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-330, filed 11/27/85, effective 1/1/86; 84-24-016 (Order 84-23), § 296-17-330, filed 11/28/84, effective 1/1/85. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-330, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-330, filed 11/27/78, effective 1/1/79; Order 75-28, § 296-17-330, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-330, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-330, filed 11/9/73, effective 1/1/74.] Repealed by 87-24-060 (Order 87-26), filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.16.035.

296-17-340 Sole proprietors and partners. [Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-340, filed 5/29/87, effective 7/1/87; 84-24-016 (Order 84-23), § 296-17-340, filed 11/28/84, effective 1/1/85; Order 75-28, § 296-17-340, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-340, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-340, filed 11/9/73, effective 1/1/74.] Repealed by 87-24-060 (Order 87-26), filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.16.035.

296-17-345 Professional and semiprofessional athletic teams. [Statutory Authority: RCW 51.04.020(1). 84-19-024 (Order 84-19), § 296-17-345, filed 9/13/84.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-349 Corporate officer and limited partner—Coverage extended. [Statutory Authority: RCW 51.16.035. 88-06-048 (Order 88-01), § 296-17-349, filed 3/1/88, effective 4/1/88.] Repealed by 91-24-057, filed 11/29/91, effective 1/1/92. Statutory Authority: RCW 51.04.120.

296-17-350 Assumed worker hours. [Statutory Authority: RCW 51.04.020. 95-08-052, § 296-17-350, filed 4/3/95, effective 7/1/95. Statutory Authority: RCW 51.04.020(1). 94-12-050, § 296-17-350, filed 5/27/94, effective 7/1/94. Statutory Authority: RCW 51.04.020(1) and 54.16.035. 93-12-093, § 296-17-350, filed 5/31/93, effective 7/1/93; 90-13-018, § 296-17-350, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-350, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-350, filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.16.035 and 51.04.020. 89-07-078 (Order 89-02), § 296-17-350, filed 3/21/89, effective 4/21/89. Statutory Authority: RCW 51.16.035. 88-14-076 (Order 87-31), § 296-17-350, filed 7/1/88, effective 1/1/89; 88-12-065 (Order 88-05), § 296-17-350, filed 5/31/88; 87-24-060 (Order 87-26), § 296-17-350, filed 12/1/87, effective 1/1/88; 85-06-026 (Order 85-7), § 296-17-350, filed 2/28/85, effective 4/1/85; 84-24-016 (Order 84-23), § 296-17-350, filed 11/28/84, effective 1/1/85. Statutory Authority: RCW 51.04.020(1). 84-11-034 (Order 84-11), § 296-17-350, filed 5/15/84. Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-350, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-350, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-350, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-350, filed 11/30/77, effective 1/1/78; Order 77-10, § 296-17-350, filed 5/31/77; Order 76-18, § 296-17-350, filed 5/28/76, effective 7/1/76; Order 75-28, § 296-17-350, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-350, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-350, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-351 Periodic review of cash deposit. [Statutory Authority: RCW 51.04.020 and Title 51 RCW. 82-10-034 (Order 82-16), § 296-17-351, filed 4/30/82. Statutory Authority: RCW 51.16.035. 80-17-016 (Order 80-23), § 296-17-351, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-351, filed 11/27/78, effective 1/1/79; Order 76-36, § 296-17-351, filed 11/30/76; Order 74-29, § 296-17-351, filed 5/29/74, effective 7/1/74.] Repealed by 91-20-078, filed 9/27/91, effective 10/28/91. Statutory Authority: HB 1206 and RCW 51.04.020.

296-17-35101 Employer's surety bond in lieu of a cash deposit. [Statutory Authority: RCW 51.04.020(1). 84-06-018 (Order 84-3), § 296-17-35101, filed 2/29/84.] Repealed by 91-20-078, filed 9/27/91, effective 10/28/91. Statutory Authority: HB 1206 and RCW 51.04.020.

296-17-360 Assignment of classification by analogy. [Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-360, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-360, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-360, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-370 Governing classification. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-370, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-370, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-370, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-370, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-370, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-375 Work done by contract. [Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-375, filed 11/30/83, effective 1/1/84.] Repealed by 85-12-024 (Order 85-11), filed 5/31/85. Statutory Authority: RCW 51.16.035.

296-17-380 Single enterprise. [Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-380, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-380, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-380, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-390 Multiple enterprises. [Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-390, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-390, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-390, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-400 Mercantile operations. [Order 73-22, § 296-17-400, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-410 Division of single employee's worker hours. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-410, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-410, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-410, filed 11/30/83, effective 1/1/84; Order 75-28, § 296-17-410, filed 8/29/75, effective 10/1/75; Order 73-22, § 296-17-410, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-411 Classification for employees supporting separate operations. [Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-411, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.04.020(1). 83-05-019 (Order 83-5), § 296-17-411, filed 2/9/83.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-420 General inclusions. [Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-420, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW

51.04.020(1) and 51.16.035. 91-12-014, § 296-17-420, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-420, filed 5/30/86, effective 7/1/86; 85-06-026 (Order 85-7), § 296-17-420, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-420, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-420, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-430 General exclusions. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-430, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-430, filed 5/29/87, effective 7/1/87; 85-06-026 (Order 85-7), § 296-17-430, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-430, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-430, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-430, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-440 Standard exceptions. [Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-440, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-440, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-440, filed 5/31/91, effective 7/1/91; 89-24-051 (Order 89-22), § 296-17-440, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-440, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-440, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-440, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-440, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-440, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-440, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-44001 Business described by a standard exception classification. [Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-44001, filed 2/28/85, effective 4/1/85.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-441 Special exceptions. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-441, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-441, filed 11/27/85, effective 1/1/86; 80-17-016 (Order 80-23), § 296-17-441, filed 11/13/80, effective 1/1/81.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-450 Special agricultural classification interpretations. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-450, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-450, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-450, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-450, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-450, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-450, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-450, filed 11/27/78, effective 1/1/79; Order 74-40, § 296-17-450, filed 11/27/74, effective 1/1/75; Order 74-29, § 296-17-450, filed 5/29/74, effective 7/1/74; Order 73-22, § 296-17-450, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45001 Special horse racing classification interpretation. [Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-45001, filed 7/20/89, effective 8/20/89.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45002 Special trucking industry rules. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-45002, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-45002, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.12.095. 89-18-051 (Order 89-11), § 296-17-45002, filed 8/31/89, effective 10/1/89.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45003 Building, construction and erection contractor reporting rules. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-45003, filed 5/27/97, effective 7/1/97; 97-06-007, § 296-17-45003, filed 2/24/97, effective 4/1/97. Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-45003, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-45003, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-45003, filed 12/1/89, effective 1/1/90.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45004 Forest, range, or timber land services—Industry rule. [Statutory Authority: RCW 51.04.020. 94-24-008, § 296-17-45004, filed 11/28/94, effective 1/1/95. Statutory Authority: RCW 51.04.020(1), 51.16.035, 51.12.070 and 51.16.060. 92-18-065, § 296-17-45004, filed 8/31/92, effective 10/1/92.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45005 Logging and/or tree thinning—Mechanized operations—General reporting rule. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-051, § 296-17-45005, filed 5/27/94, effective 7/1/94.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-45006 Special drywall industry rule. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-45006, filed 5/27/97, effective 7/1/97; 97-06-007, § 296-17-45006, filed 2/24/97, effective 4/1/97.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-455 Special temporary help classification interpretation. [Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-455, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-455, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-455, filed 2/28/85, effective 4/1/85.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-460 Classification phraseology. [Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-460, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-460, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-470 Penalty assessments for employers who fail to register under Title 51 RCW. [Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-470, filed 5/29/87, effective 7/1/87; 83-24-017 (Order 83-36), § 296-17-470, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(1). 83-05-019 (Order 83-5), § 296-17-470, filed 2/9/83.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-480 Penalty assessment for failure to keep records, or file quarterly reports and pay premiums under Title 51 RCW. [Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-480, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(1). 83-05-019 (Order 83-5), § 296-17-480, filed 2/9/83.] Repealed by 87-24-060 (Order 87-26), filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.16.035.

296-17-502 Classification 0102. [Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-502, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-502, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-502, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-502, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-502, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-502, filed 11/30/76; Order 73-22, § 296-17-502, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-506 Classification 0106. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-506, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-506, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-506, filed 11/30/83, effective 1/1/84;

82-24-047 (Order 82-38), § 296-17-506, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-506, filed 11/9/73, effective 1/1/74.] Repealed by 94-12-051, filed 5/27/94, effective 7/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-507 Classification 0109. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-507, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-507, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-507, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-507, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-50904 Classification 0206. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-50904, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-50904, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-50904, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-50904, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-50904, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-50904, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-50904, filed 11/29/82, effective 1/1/83.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-514 Classification 0401. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-514, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-514, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-514, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-514, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-514, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-514, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-515 Classification 0402. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-515, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-515, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-515, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-518 Classification 0503. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-518, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-518, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-518, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-518, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-520 Classification 0505. [Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-520, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-520, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-520, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-520, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-520, filed 11/27/85, effective 1/1/86; 85-12-024 (Order 85-11), § 296-17-520, filed 5/31/85; 83-24-017 (Order 83-36), § 296-17-520, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-520, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-520, filed 11/30/76; Order 75-38, § 296-17-520, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-520, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-520, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-52107 Classification 0515. [Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-52107, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-52107, filed 5/31/88, effective 7/1/88.] Repealed by 97-06-007, filed 2/24/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-52112 Classification 0520. [Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-52112, filed 5/31/96, effective 7/1/96.] Repealed by 97-06-007, filed 2/24/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-52114 Classification 0522. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-06-007, § 296-17-52114, filed 2/24/97, effective 4/1/97.] Repealed by 97-12-011, filed 5/27/97, effective 7/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-52115 Classification 0523. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-06-007, § 296-17-52115, filed 2/24/97, effective 4/1/97.] Repealed by 97-12-011, filed 5/27/97, effective 7/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-52117 Classification 0525. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-06-007, § 296-17-52117, filed 2/24/97, effective 4/1/97.] Repealed by 97-12-011, filed 5/27/97, effective 7/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-530 Classification 0804. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-530, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-530, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-530, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-530, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-531 Classification 8-6. [Order 73-22, § 296-17-531, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-533 Classification 9-2. [Order 73-22, § 296-17-533, filed 11/9/73, effective 1/1/74.] Repealed by 80-17-016 (Order 80-23), filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.16.035.

296-17-543 Classification 14-3. [Order 73-22, § 296-17-543, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-547 Classification 16-2. [Order 73-22, § 296-17-547, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-553 Classification 18-2. [Order 73-22, § 296-17-553, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-554 Classification 18-3. [Order 73-22, § 296-17-554, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-556 Classification 2003. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-556, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-556, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-558 Classification 2005. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-558, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-558, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-558, filed 11/9/73, effective 1/1/74.] Repealed by 94-12-063, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-559 Classification 20-6. [Order 73-22, § 296-17-559, filed 11/9/73, effective 1/1/74.] Repealed by 80-17-016 (Order 80-23), filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.16.035.

296-17-576 Classification 3301. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-576, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-576, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-576, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-576, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-576, filed 11/27/78, effective 1/1/79; Order 75-38, § 296-17-576, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-576, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-57601 Classification 3302. [Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-57601, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-57601, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-57601, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW

51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-57601, filed 11/27/78, effective 1/1/79.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-577 Classification 33-8. [Order 73-22, § 296-17-577, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-579 Classification 3401. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-579, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-579, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-579, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-579, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-579, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-579, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-579, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-579, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-579, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-588 Classification 35-4. [Order 73-22, § 296-17-588, filed 11/9/73, effective 1/1/74.] Repealed by 79-12-086 (Order 79-18), filed 11/30/79. Statutory Authority: RCW 51.04.030 and 51.16.035.

296-17-589 Classification 35-5. [Order 73-22, § 296-17-589, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-591 Classification 35-7. [Order 73-22, § 296-17-591, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-592 Classification 3508. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-592, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-592, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-592, filed 11/9/73, effective 1/1/74.] Repealed by 91-12-014, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-593 Classification 36-1. [Order 73-22, § 296-17-593, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-598 Classification 3606. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-598, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-598, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-598, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-598, filed 11/9/73, effective 1/1/74.] Repealed by 88-12-050 (Order 88-06), filed 5/31/88, effective 7/1/88. Statutory Authority: RCW 51.16.035.

296-17-601 Classification 37-3. [Order 73-22, § 296-17-601, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Repealed by 85-06-026 (Order 85-7), filed 2/28/84, effective 7/1/85. Statutory Authority: RCW 51.16.035.

296-17-602 Classification 37-6. [Order 73-22, § 296-17-602, filed 11/9/73, effective 1/1/74.] Repealed by 79-12-086 (Order 79-18), filed 11/30/79. Statutory Authority: RCW 51.04.030 and 51.16.035.

296-17-603 Classification 3707. [Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-603, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-603, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-603, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-603, filed 11/9/73, effective 1/1/74.] Repealed by 91-12-014, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-605 Classification 3801. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-605, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-605, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-605, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-605, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-605, filed 11/9/73, effective 1/1/74.] Repealed by 96-12-039, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035.

296-17-607 Classification 38-3. [Order 73-22, § 296-17-607, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-608 Classification 38-4. [Order 73-22, § 296-17-608, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-609 Classification 38-5. [Order 73-22, § 296-17-609, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-610 Classification 38-6. [Order 73-22, § 296-17-610, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-611 Classification 38-7. [Order 73-22, § 296-17-611, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-613 Classification 38-9. [Order 73-22, § 296-17-613, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-617 Classification 39-4. [Order 73-22, § 296-17-617, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-621 Classification 41-2. [Order 73-22, § 296-17-621, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-623 Classification 41-4. [Order 73-22, § 296-17-623, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-624 Classification 41-5. [Order 73-22, § 296-17-624, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-625 Classification 41-6. [Order 73-22, § 296-17-625, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-632 Classification 4303. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-632, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-632, filed 11/9/73, effective 1/1/74.] Repealed by 86-12-041 (Order 86-18), filed 5/30/86, effective 7/1/86. Statutory Authority: RCW 51.16.035.

296-17-639 Classification 45-3. [Order 75-38, § 296-17-639, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-639, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-642 Classification 47-1. [Order 73-22, § 296-17-642, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-648 Classification 48-7. [Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-648, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-648, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-648, filed 11/9/73, effective 1/1/74.] Repealed by 85-06-026 (Order 85-7), filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.16.035.

296-17-662 Classification 5102. [Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-662, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-662, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-662, filed 11/9/73, effective 1/1/74.] Repealed by 89-24-051 (Order 89-22), filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-664 Classification 51-4. [Order 73-22, § 296-17-664, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-665 Classification 51-5. [Order 73-22, § 296-17-665, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-667 Classification 51-7. [Order 75-38, § 296-17-667, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-667, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-671 Classification 52-2. [Order 73-22, § 296-17-671, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-672 Classification 52-3. [Order 73-22, § 296-17-672, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-674 Classification 52-5. [Order 73-22, § 296-17-674, filed 11/9/73, effective 1/1/74.] Repealed by 82-24-047 (Order 82-38), filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.16.035.

296-17-683 Classification 61-6. [Order 73-22, § 296-17-683, filed 11/9/73, effective 1/1/74.] Repealed by 78-12-043 (Order 78-23), filed 11/27/78, effective 1/1/79. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-702 Classification 63-7. [Order 73-22, § 296-17-702, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-705 Classification 64-1. [Order 73-22, § 296-17-705, filed 11/9/73, effective 1/1/74.] Repealed by Order 75-38, filed 11/24/75, effective 1/1/76.

296-17-720 Classification 65-7. [Order 73-22, § 296-17-720, filed 11/9/73, effective 1/1/74.] Repealed by 81-24-042 (Order 81-30), filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.16.035.

296-17-721 Classification 6508. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-721, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-721, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-721, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-721, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-721, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-721, filed 11/9/73, effective 1/1/74.] Repealed by 98-18-042, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.16.035.

296-17-728 Classification 66-6. [Order 73-22, § 296-17-728, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-731 Classification 6609. [Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-731, filed 5/31/88; 85-24-032 (Order 85-33), § 296-17-731, filed 11/27/85, effective 1/1/86; 81-24-042 (Order 81-30), § 296-17-731, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-731, filed 11/13/80, effective 1/1/81; Order 73-22, § 296-17-731, filed 11/9/73, effective 1/1/74.] Repealed by 89-16-001 (Order 89-07), filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.04.020(1).

296-17-73101 Classification 6610. [Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-73101, filed 5/31/88.] Repealed by 89-16-001 (Order 89-07), filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.04.020(1).

296-17-73102 Classification 6611. [Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-73102, filed 5/31/88.] Repealed by 89-16-001 (Order 89-07), filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.04.020(1).

296-17-73103 Classification 6612. [Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-73103, filed 5/31/88.] Repealed by 89-16-001 (Order 89-07), filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.04.020(1).

296-17-73104 Classification 6613. [Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-73104, filed 5/31/88.] Repealed by 89-16-001 (Order 89-07), filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.04.020(1).

296-17-732 Classification 67-1. [Order 73-22, § 296-17-732, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-733 Classification 67-2. [Order 73-22, § 296-17-733, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-734 Classification 67-3. [Order 73-22, § 296-17-734, filed 11/9/73, effective 1/1/74.] Repealed by Order 74-40, filed 11/27/74, effective 1/1/75.

296-17-86501 Building industry experience modification limitations. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-86501, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-86501, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 87-24-049 (Order 87-27), § 296-17-86501, filed 11/30/87, effective 1/1/88.] Repealed by 91-24-053, filed 11/27/91, effective 1/1/92. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-87307 Revision or withdrawal of experience modifications. [Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87307, filed 11/30/79, effective 1/1/80.] Repealed by 90-20-092, filed 10/1/90, effective 11/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-87308 Experience modification. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-87308, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87308, filed 11/30/79, effective 1/1/80.] Repealed by 90-20-092, filed 10/1/90, effective 11/1/90. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-87309 Classification assignments—Applicability. [Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87309, filed 11/30/79, effective 1/1/80.] Repealed by 87-12-032 (Order 87-12), filed 5/29/87, effective 7/1/87. Statutory Authority: RCW 51.16.035.

296-17-89501 Average hourly wage effective July 1, 1993. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-89501, filed 5/31/93, effective 7/1/93.] Repealed by 96-24-063, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073.

296-17-896 Christmas tree industry base rate revision. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-24-041, § 296-17-896, filed 11/30/90, effective 12/31/90.] Repealed by 93-12-093, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.04.020(1) and 51.16.035.

296-17-904 Definitions. [Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-904, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-24-053, § 296-17-904, filed 11/27/91, effective 1/1/92; 88-24-010 (Order 88-26), § 296-17-904, filed 12/1/88, effective 1/1/89. 88-24-010 (Order 88-26), § 296-17-904, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-904, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-904, filed 2/28/85, effective 7/1/85; 81-04-024 (Order 81-02), § 296-17-904, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-910 Qualifications for employer groups for workers' compensation insurance. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.12.095. 89-18-051 (Order 89-11), § 296-17-910, filed 8/31/89, effective 10/1/89. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-12-048 (Order 87-30), § 296-17-910, filed 5/31/88. Statutory Authority: RCW 51.16.035. 85-06-025 (Order 85-8), § 296-17-910, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-910, filed 2/29/84, effective 7/1/84; 82-05-019 (Order 82-5), § 296-17-910, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-910, filed 1/30/81; Order 73-22, § 296-17-910, filed 11/9/73, effective 1/1/74.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-911 Group dividends. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-18-083, § 296-17-911, filed 8/31/93, effective 10/1/93. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-911, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-911, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-911, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-911, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-911, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-911, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-912 Retrospective rating plan. [Statutory Authority: RCW 51.16.035. 81-04-024 (Order 81-02), § 296-17-912, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-913 Qualifications for employer participation in a retrospective rating plan. [Statutory Authority: RCW 51.04.020.

95-06-069, § 296-17-913, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 87-12-033 (Order 87-17), § 296-17-913, filed 5/29/87. Statutory Authority: RCW 51.16.035. 85-06-025 (Order 85-8), § 296-17-913, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-913, filed 2/29/84, effective 7/1/84; 82-05-019 (Order 82-5), § 296-17-913, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-913, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-915 Evaluation of incurred losses dividend and retrospective rating plans. [Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-915, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-915, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-915, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 85-06-025 (Order 85-8), § 296-17-915, filed 2/28/85, effective 7/1/85; 83-05-018 (Order 83-4), § 296-17-915, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-915, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-915, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-916 Retrospective premium adjustments—Due and payable. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-24-040, § 296-17-916, filed 11/30/90, effective 1/1/91; 88-24-010 (Order 88-26), § 296-17-916, filed 12/1/88, effective 1/1/89; 88-12-048 (Order 87-30), § 296-17-916, filed 5/31/88. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-916, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-916, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-916, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-916, filed 2/9/83, effective 7/1/83; 81-04-024 (Order 81-02), § 296-17-916, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91601 Ninety-day open option. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-24-040, § 296-17-91601, filed 11/30/90, effective 1/1/91; 88-12-049 (Order 88-08), § 296-17-91601, filed 5/31/88.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-917 Qualifications for employer group participation in retrospective rating plan. [Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-18-083, § 296-17-917, filed 8/31/93, effective 10/1/93; 87-12-033 (Order 87-17), § 296-17-917, filed 5/29/87. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-917, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-917, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-917, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-917, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-917, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-917, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-918 Limitation of liability indemnification. [Statutory Authority: RCW 51.16.035. 84-06-024 (Order 84-2), § 296-17-918, filed 2/29/84, effective 7/1/84.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91901 Table II. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-91901, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-91901, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-91901, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-91901, filed 12/1/88, effective 1/1/89; 88-14-107 (Order 88-10), § 296-17-91901, filed 7/6/88; 86-17-002 (Order 86-29), § 296-17-91901, filed 8/8/86. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-91901, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-91901, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-91901, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-91901, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-91901, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-91901, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91902 Table III. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-91902, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-91902, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-91902, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-91902, filed 12/1/88, effective 1/1/89; 88-14-107 (Order 88-10), § 296-17-91902, filed 7/6/88; 86-17-002 (Order 86-29), § 296-17-91902, filed 8/8/86. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-91902, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-91902, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-91902, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-91902, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-91902, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-91902, filed 1/30/81.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91903 Table IV. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-91903, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-91903, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-91903, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-91903, filed 12/1/88, effective 1/1/89; 88-14-107 (Order 88-10), § 296-17-91903, filed 7/6/88; 86-17-002 (Order 86-29), § 296-17-91903, filed 8/8/86. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-91903, filed 2/25/86.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91904 Table V. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-91904, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-91904, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-91904, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-91904, filed 12/1/88, effective 1/1/89; 88-14-107 (Order 88-10), § 296-17-91904, filed 7/6/88; 86-17-002 (Order 86-29), § 296-17-91904, filed 8/8/86. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-91904, filed 2/25/86.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

296-17-91905 Table VI. [Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-91905, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-91905, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-91905, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-91905, filed 12/1/88, effective 1/1/89; 88-14-107 (Order 88-10), § 296-17-91905, filed 7/6/88; 86-17-002 (Order 86-29), § 296-17-91905, filed 8/8/86. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-91905, filed 2/25/86.] Repealed by 98-24-072, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.16.035.

WAC 296-17-31001 Introduction. WAC 296-17-31001 through 296-17-31029 provides rules applicable to workers' compensation insurance coverage (industrial insurance) that employers in the state of Washington must provide for their workers. We refer to these rules (WACs) as sections and the complete body of information as the *workers' compensation underwriting manual.* The workers' compensation underwriting manual contains sections (WACs) that define or explain:

- Words and phrases which we use
- Who the workers' compensation system applies to
- How to obtain workers' compensation coverage

- Why a classification system is necessary
- How our classification plan is designed
- How our classification approach compares to other states
- How we assign classifications to your business
- How we classify your business if a specific classification treatment is not referenced in our classification plan
- How employers report and pay premiums to us
- How we compute base rates
- Audit and recordkeeping requirements
- Experience rating plan
- Base rate tables.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31001, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31002 General rule definitions. In developing the general reporting rules and classifications which govern Washington's workers' compensation classification plan, we have used certain words or phrases which could have several meanings. Many of these words or phrases are defined by law in the Revised Code of Washington *(Title 51 RCW)* and can be found in **Appendix A** of this manual. Some words, however, are not defined by law. To reduce the misunderstanding which can result by our use of certain words or phrases not defined in law *(Title 51 RCW)*, we have developed definitions which will govern what these words and phrases mean for purposes of this chapter *(chapter 296-17 WAC)*.

The following words or phrases mean:

Account: A unique numerical reference that we assign to you that identifies your business or businesses and allows us to track exposure that you report to us and losses *(claims)* which we pay on your behalf.

Actual hours worked: A worker's composite work period during each work day, including all of the time the employee performed work, *and* all periods of mandatory presence at the worksite. Actual hours worked *does not* include nonpaid lunch periods. The following example is provided to illustrate how work hours are to be reported. If you have questions on reporting please contact our underwriting section at (360) 902-4817.

Example: *A carpet installer arrives at the employer's place of business at 8:00 a.m. to pick up supplies, carpet, and the job assignment. The carpet installer arrives at the job site at 9:00 a.m. and works until 12 noon. The installer takes a half hour nonpaid lunch period and resumes working from 12:30 p.m. until 4:00 p.m. The installer then returns to the employer's premise to drop off supplies and carpet waste. The installer leaves the employer's premise at 5:30 p.m. The employer is to report nine hours of work time regardless of whether the employee is paid by the hour or by the number of yards of carpet installed.*

All: When a classification contains a descriptive phrase beginning with *"all"* such as in *"all employees, " "all other employees, " "all operations, "* or *"all work to completion, "* it includes all operations and employments which are normally associated with the type of business covered by the classification. This condition applies even if the operations or employments are physically separated or conducted at a separate location. Operations or employments are to be classified separately when the classification wording requires it, or when the operations or employments are not incidental to, and not usually associated with, the business described by the classification.

And: When this word is contained in any rule it is to be considered the same as the phrase "and/or."

Basic classification: A grouping of businesses or industries having common or similar exposure to loss without regard to the separate employments, occupations or operations which are normally associated with the business or industry. Basic classifications describe a specific type of business operation or industry such as mechanical logging, sawmills, aircraft manufacturing, or restaurants. In most business operations some workers are exposed to very little hazard, while others are exposed to greater hazard. Since a basic classification reflects the liability *(exposure to hazard)* of a given business or industry, all the operations and occupations that are common to an industry are blended together and included in the classification. The rate for a basic classification represents the average of the hazards within the classification. All classifications contained in this manual are considered basic classifications with the exception of classifications 4806, 4900, 4904, 5206, 6301, 6302, 6303, 7101, and temporary help classifications 7104 through 7121. Classification descriptions contained in WAC 296-17-501 through 296-17-779, establish the intended purpose or scope of each classification. These descriptions will routinely include types of businesses, operations, processes or employments which are either included or excluded from the classification. These references are not to be considered an all inclusive listing unless the classification wording so specifies.

But not limited to: When this phrase is used in any rule in this manual it is not to be interpreted as an all inclusive list. Such a list is meant to provide examples of operations, employments, processes, equipment or types of businesses which are either included or excluded from the scope of the classification.

Excludes or excluding: When a classification contains a descriptive phrase beginning with *"excludes"* or *"excluding"* such as *"excluding drivers or delivery, " "excluding second hand appliance stores, "* or *"excludes construction operations, "* you must report those operations in a separate classification. If a business fails to keep the records required in the auditing recordkeeping section of this manual and we discover this, we will assign all workers hours for which records were not maintained to the highest rated classification applicable to the work which was performed.

Exposure: Worker hours, worker days, licenses, material, payroll or other measurement which we use to determine the extent to which an employer's workers have been exposed to the hazards found within a particular business or industry classification.

Governing classification: Is the basic classification assigned to a business that produces the largest number of worker hours during a calendar year *(twelve months)*. The governing classification rule applies only to situations where a business has been assigned two or more basic classifications and is used for the sole purpose of determining what classification applies to employees and covered owners who support two or more operations. The governing classification

rule is not to be used to determine the basic classification of a business.

Includes or including: When a classification contains a descriptive phrase beginning with *"includes"* or *"including"* such as *"including clerical office, " "including meter readers, "* or *"includes new construction or extension of lines, "* you must report these operations in that basic classification even though they may be specifically described by some other classification contained in this manual or may be conducted at a separate location.

Industrial insurance: Refer to the definition of "workers' compensation insurance."

N.O.C.: This abbreviation stands for not otherwise classified. Classifications are often worded in this way when there are many variations of the same general type of business and it would be nearly impossible to list all the variations. Before a classification designated with N.O.C. is used, all other related classifications must be reviewed to determine if the business or industry is specified in another classification.

Example: *You operate a retail store that sells greeting cards. In our search to classify your business we come across a classification that covers retail stores N.O.C. Before our underwriter assigns this classification to your business, they would look at other retail store classifications to see if a more precise classification could be found. In our review we note several classifications such as grocery and department stores where greeting cards are sold. None of these classifications, however, specify that they include stores that exclusively sell greeting cards. Classification 6406 "Retail stores, N.O.C., " on the other hand, contains language in its description that states it includes stores that sell items such as greeting cards, table top appliances, tropical fish and birds, and quick print shops. We would assign classification 6406 "Retail stores, N.O.C." to your business.*

Or: Refer to the definition of the word *"and."*

Policy manager: An individual who works in the underwriting section of the department of labor and industries and manages an employer's workers' compensation insurance account. A policy manager is also referred to as an underwriter.

Premium: The total amount of money owed to the department of labor and industries as calculated by multiplying the assigned classification composite rate by the total units of exposure.

Rate: The amount of premium due for each unit of exposure. All rates are composite rates per worker hour except as otherwise provided for by other rules in this manual.

Risk: All insured operations of one employer within the state of Washington.

Temporary help: The term "temporary help" means the same as temporary service contractors defined in *(Title 19 RCW)* and applies to any person, firm, association or corporation conducting a business which consists of employing individuals directly for the purpose of furnishing such individuals on a part-time or temporary help basis to others.

Underwriter: Refer to the definition of a "policy manager."

Work day: Any consecutive twenty-four hour period.

Work hour: Refer to the definition of "actual hours worked."

Workers' compensation insurance: The obligation imposed on an employer by the industrial insurance laws *(Title 51 RCW)* of the state of Washington to insure the payment of benefits prescribed by such laws.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31002, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31003 No-fault insurance. What is a workers' compensation insurance program? Workers' compensation insurance is a no-fault insurance program that eliminates blame to either party for workplace injuries or illnesses. The principle features include:

- Wage and medical benefits to employees who suffer on-the-job injuries or illnesses; and
- Immunity from lawsuits for employers as a result of workplace injuries or illnesses suffered by their employees.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31003, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31004 Coverage requirements. I own a business. Am I required to have workers' compensation insurance coverage for my employees? Nearly every employer doing business in the state of Washington is required to have workers' compensation insurance for their employees. Washington law *(RCW 51.12.020)* does exempt certain types of employment from coverage. A copy of this law can be found in **Appendix A** of the workers' compensation manual. If you employ only individuals who are excluded from mandatory workers' compensation insurance coverage, you are not required to have workers' compensation insurance coverage.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31004, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31005 Employer/employee relationship. How do I determine if I am an employer? Chances are that if you employ one or more individuals to work for you, you are probably an employer. RCW 51.08.070, 51.08.180 and 51.08.195 all define the employer/employee relationship. These laws present the conditions that must exist before an exception or an independent contractor status can be recognized. Copies of these laws can be found in **Appendix A** of the workers' compensation underwriting manual. You may call one of our offices and a representative will help you determine if you are an employer. We are listed in the government pages of your local telephone directory, or you can call our underwriting section at (360) 902-4817 for assistance.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31005, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31006 Application process. (1) Where can I buy workers' compensation insurance? Washington law requires that you:

- Purchase your workers' compensation insurance through labor and industries; or

- Be certified as a self-insured employer by the self insurance section of the department of labor and industries.

Employers engaged exclusively in interstate or foreign commerce are permitted to purchase workers' compensation insurance from a private carrier in another state if they do business in that state. The workers' compensation laws of the other state must allow the Washington drivers to be covered in that state. You will need to complete a *master application* to obtain workers' compensation insurance from us. For more information on self insurance you can call (360) 902-6867 and one of our self insurance representatives will assist you.

(2) **Where can I get a master application?**

You can get a master application from any labor and industries, employment security, department of revenue office, the department of licensing master license service, or the corporations division of the office of the secretary of state. For your convenience you can call us at (360) 902-4817 and we will mail you one.

(3) **Where do I send my completed master application?**

You can mail your completed master application to the department of licensing address shown on the form, or you can return it to your local labor and industries, department of revenue, or employment security district tax office. Be sure to include the appropriate fees indicated on the form.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31006, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31007 Owner coverage. (1) **As a business owner, can I buy workers' compensation insurance to cover myself?**

Yes, as a business owner or corporate officer you can obtain workers' compensation coverage from us. We refer to this coverage as optional coverage since as the owner/corporate officer, you are not required to have this insurance. Because owner insurance coverage is optional, you must meet certain conditions and requirements which are detailed on the *application for owner/corporate officer optional coverage.* These requirements include:

- Completing an application for optional owner/corporate officer coverage;
- Reporting owner/corporate officer hours in the classification assigned to your business that is applicable to the work being performed by the owner/officer;
- Submitting a supplemental report which lists the name of each covered owner/corporate officer; and
- Reporting four hundred eighty hours or actual hours worked each quarter for each covered owner/corporate officer and in the applicable workers' compensation classification code.

(2) **When will my owner/corporate officer coverage become effective?**

Your coverage will become effective immediately after the filing date we receive your application unless you indicate a future date. We will not make coverage effective on the same date or a date prior to our receipt of your completed application for owner/corporate officer coverage.

(3) **Where can I obtain an application for owner/corporate officer coverage?**

To obtain a copy of this application, contact your local labor and industries office. We are listed in the government pages of your local directory or you can call our underwriting section at (360) 902-4817.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31007, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31008 Notification requirements. (1) **Will you notify me when you have opened my workers' compensation insurance account?**

Yes, we will notify you when we have opened your workers' compensation insurance account.

(2) **Will you contact me if you need additional information about my business?**

Yes, we will contact you if we need additional information to classify your business or establish your workers' compensation insurance account.

(3) **Will you provide me with instructions on how to report and pay premiums to you?**

Yes, we will send you a written notice describing the classification or classifications we have assigned to your business and how to report the worker hours or other exposure of your employees to us. You will receive a rate notice which will detail information about your premium rate and what portions of the rate you may deduct from your employees wages. You should keep these notices with your business records. A copy of a rate notice can be found in **Appendix B** of this manual.

(4) **Will you notify me if you are going to change a classification assigned to my business?**

Yes, if we need to change the classifications assigned to your business, we will send you a written notice describing the new classifications and when they become effective.

(5) **How do I notify my employees that they are covered by workers' compensation insurance?**

We will send you a certificate of coverage and a packet of information when we open your account. The packet will include some special notices which you are required to post in areas where employees frequently gather. Areas where you might consider posting the special notices include employee break rooms, employee bulletin boards, or areas where time cards are kept. These notices will inform your employees that they are covered for workers' compensation insurance under the Washington state fund and will tell them what they must do if they suffer a workplace injury or illness. The certificate of coverage should be posted in a place visible to the public. This certificate provides confirmation that you have obtained workers' compensation insurance coverage for your employees.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31008, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31009 Reciprocal agreements. (1) **Occasionally one of my Washington employees will do some work for me in another state. Do I need to buy workers' compensation insurance in the state where they are working?**

In some cases, we can provide workers' compensation insurance coverage for your Washington based employees

working for you on a temporary assignment in another state. We have formal written agreements with some states which detail coverage and jurisdiction issues. We refer to these formal agreements as *"reciprocal agreements."* If you have questions regarding temporary coverage in another state you should contact your policy manager for assistance. The name and telephone number of your policy manager can be found on your quarterly premium report or annual rate notice. For your convenience you can call us at (360) 902-4817 for assistance and we will put you in contact with your assigned policy manager.

(2) **What is a reciprocal agreement?**

A reciprocal agreement is a contract between the department of labor and industries acting on behalf of the state of Washington and another state. The primary purpose of the agreement is to identify which state will be responsible for paying benefits if one of your employees is injured. This also limits your insurance costs. If you employ only Washington workers you need to buy workers' compensation insurance only from us.

(3) **You mentioned that there are circumstances when you can provide insurance coverage. What are the circumstances?**

The actual circumstances will vary by state. In most cases we will look at:

- The work to be performed,
- The location where the work is to be performed,
- Where the employee was first hired to work,
- How long the employee will be working in the other state.

(4) **Which states have reciprocal agreements with Washington?** We currently have reciprocal agreements with the following states:

- Idaho
- Montana
- Nevada
- North Dakota
- Oregon
- South Dakota
- Wyoming.

(5) **Can I get a copy of a reciprocal agreement?** You can get a copy of a reciprocal agreement by calling your policy manager. The name and telephone number of your policy manager can be found on your quarterly premium report or your annual rate notice. For your convenience you can call us at (360) 902-4817 and we will put you in contact with your assigned policy manager.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31009, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31010 Premium cost. How much will I pay for workers' compensation insurance? What you pay for workers' compensation insurance will vary by:

- The nature of the business you are conducting,
- The specific classifications applicable to your business,
- The unit of exposure applicable to your industry, and
- Your company's experience factor.

You may call our underwriting section at (360) 902-4817 and one of our representatives will help you estimate your premium cost per hour.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31010, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31011 Classification system and plan. (1) **What is a workers' compensation classification system?**

A workers' compensation classification system is an objective method of collecting money *(premiums)* to pay the benefits of workers injured on the job. We believe the method used to spread this cost among the employers we insure should be fair and have some relationship to their hazard and potential for loss. Classifications are the tool used to achieve a fair method of distributing the risk among employers we insure. Objective boundaries are established for each classification. These boundaries describe the types of businesses which are included in the classification, as well as the operations and employments routinely encountered. We refer to these objective boundaries as the scope of the classification. Once these boundaries have been defined, we can begin collecting information about the employers assigned to each classification. The information includes the exposure which is being covered *(risk)* and the losses *(claims)* which are related to these businesses. Next, we use this information to establish premium rates that employers in each industry will pay for their workers' compensation insurance. Our goal is to produce fair insurance rates which reflect the hazardous nature of each industry. We have tailored our classification system in Washington to reflect industries found in our state. This makes our system responsive to change and provides rate payer equity to the employers we insure. Employers engaged in more hazardous industries such as logging will pay higher insurance rates than employers engaged in less hazardous businesses such as retail store operations.

(2) **Why is a classification system needed?**

We need a classification system to provide fair premium rates. Washington law *(RCW 51.16.035)* also requires us to have a classification system.

(3) **Is the classification system the same as the classification plan?**

No, we refer to the body of rules *(WACs)* which establish the general parameters of how classifications are to be used as the "classification system." These rules speak to the requirements of workers' compensation insurance and to our general classification approach, such as classifying by nature of business, not by occupation of worker. The "classification plan" refers to all of the various classification descriptions which describe different types of business or industry. The classification system rules *(general rules)* will apply to all businesses unless another treatment is specifically provided for in the classification plan rules *(special rules)*.

(4) **How is our classification plan designed?**

We have designed a plan which is keyed to the nature of the businesses or industries of the employers we insure. Our plan has over three hundred business or industry classifications. Each classification carries a premium rate which reflects the hazards that workers are exposed to. Descriptions of our classifications can be found in *WAC 296-17-501* through *296-17-779*.

(5) **Is your classification approach similar to the approach used by private insurance companies?**

Yes, we are required by law *(RCW 51.16.035)* to use the same classification *(underwriting)* approach used by private carriers.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31011, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31012 Classification assignment. (1) **How are classifications assigned to my business?**

We will assign a basic classification or classifications to your business based on the nature of the business you are engaged in. We will not assign classifications to your business based on the individual operations, duties or occupations of individuals found within your business unless the basic classification assigned to your business either requires or permits a separate classification treatment for specified operations or employments. Exceptions to this approach are outlined in WAC 296-17-31017 and 296-17-31018.

(2) **Does this same classification approach apply if I have several businesses?**

This classification approach will apply to each separate legal entity. Each separate legal entity will be classified on its own merits.

(3) **How do you decide what classification(s) to assign to my business?**

To determine what classification(s) to assign to your business, we need enough information to give us a clear understanding of the precise nature of your business and the hazards your business poses to your workers. In some cases we will need to call you to obtain more detailed information about your business. Occasionally one of our field representatives may visit your business to gain a better understanding of the nature of your business. In most cases we will find a classification that specifically describes your business.

Example: *You operate a company that sells baked goods to retail customers. Before we can classify your business we need to determine whether you bake the goods you are selling or simply selling goods another business has baked. Once we have determined the precise nature of your business, we will reviewall of the available classifications to find the one that best describes the entire business. If the business has baked the products they are selling, we would consider a bakery classification or maybe a restaurant classification. If your business simply sells baked goods that another business made, we may look at a retail store classification. In most cases we will find a classification that specifically describes the business we are classifying.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31012, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31013 Building construction. (1) **Does this same classification approach apply to building and construction contractors?**

Yes, but it may not appear that way without further explanation. We classify contractors by phase and type of construction since it is common for each contract to vary in scope.

Example: *A contractor who builds and remodels private residences may frame the structure and work on no other phases of the project. On another job the same contractor may do only the interior finish carpentry. On still another job the contractor may install a wood deck or build a garden arbor. Each of these carpentry activities is covered by a different classification code. To ensure that contractor businesses receive the same treatment as other businesses, we assign classifications according to the phases and types of construction they contract to perform. Since some contractors specialize in one area of construction, such as plumbing, roofing, insulation, or electrical services, this classification approach mirrors that of nonbuilding contractor businesses. The policy of assigning several basic classifications to contractors engaged in multiple phases of construction may seem to be in conflict with the classification approach used for nonbuilding contractor businesses, but we have simply used the* ***multiple business*** *classification approach.*

If we have assigned multiple classifications to your construction business you should take special care in maintaining the records required in the auditing and recordkeeping section of this manual. If we discover that you have failed to keep the required records we will assign all worker hours for which the records were not maintained to the highest rated classification applicable to the work that was performed.

(2) **Who does this rule apply to?**

If you are a building, construction or erection contractor and we have assigned one or more of the following classifications to your business, this rule applies to you: 0101, 0102, 0103, 0104, 0105, 0107, 0108, 0201, 0202, 0210, 0212, 0214, 0217, 0219, 0301, 0302, 0303, 0306, 0307, 0403, 0502, 0504, 0506, 0507, 0508, 0509, 0510, 0511, 0512, 0513, 0514, 0516, 0517, 0518, 0519, 0521, 0524, 0526, 0527, 0528, 0529, 0530, 0531, 0532, 0533, 0534, 0601, 0602, 0603, 0607, 0608, and 0701.

(3) **Can I have a single classification assigned to my business to cover a specific construction project?**

Yes, to simplify recordkeeping and reporting requirements we will assign a single classification to cover an entire project.

(4) **How do I request the single classification for one of my construction projects?**

You should send your request to the attention of your policy manager at the address below:

Department of Labor and Industries
P.O. Box 44144
Olympia, Washington 98504-4144

(5) **If I have asked for a single classification on one of my construction projects, how do you determine which classification will apply?**

You must supply us with a description of the project and a break down of the total number of hours of exposure by phase of construction that you are responsible for.

Example: *You notify us that your company will be responsible for all plumbing and iron erection work on a commercial building site. You have requested a single classification for this project. In your request you tell us that you estimate that it will take one thousand work hours to perform all the plumbing work and five hundred work hours to do the steel erection work.*

With this information we will estimate the premiums by classification.

Example: *We determine that the plumbing work is covered under classification 0306 and the steel erection work is*

covered under classification 0518. Assume that classification 0306 has an hourly premium rate of $1.50 and classification 0518 has an hourly premium rate of $2.55. We estimate the total premium on this job to be $2, 775 (1,000 hours x $1.50 = $1, 500 + 500 hours x $2.55 = $1, 275).

Our next step in this process is to develop an average hourly rate for the project. We will use this information to select the single classification which will apply to this project.

Example: *We will take the estimated premium ($2, 775) and divide this number by the estimated hours (1, 500) and arrive at an average hourly rate of $1.85.*

To select the single classification that will apply to a construction project, we will compare the average hourly rate that we have computed to the rates of the classifications applicable to the project. We will select the classification whose hourly rate is the closest to the average hourly rate that we computed from the information you supplied us with.

Example: *From the information you supplied, we have determined that the average hourly rate for this project is $1.85. We also know that the rate for the plumbing classification (0306) is $1.50 per hour and the rate for steel erection is $2.55 per hour. We would assign classification 0306 as the single classification applicable to this project.*

(6) **How will I know what classification will apply to my construction project?**

We will send you a written notice which will specify the basic classification and premium rate that will apply to this project.

(7) **If I have asked for a single classification to cover one of my construction projects, am I required to use the single classification which you gave me?**

No, but you should call your policy manager to verify what other classifications would apply to the project. The name and phone number of your policy manager can be found on your quarterly premium report or your annual rate notice. For your convenience you can call us at (360) 902-4817 and we will put you in contact with your assigned policy manager.

(8) **I am a general construction or erection contractor, I subcontract all my work and have no employees of my own. Do I have to report to the department of labor and industries?**

No, since you do not have employees, you do not need to report to the department of labor and industries. You should be aware that the workers' compensation insurance laws of Washington include certain independent contractors as workers. If we determine that an independent contractor that you used qualifies as a covered worker, you will be responsible for the premium due for their work time. You can also be held responsible for premiums due to labor and industries if you subcontract with an unregistered contractor and they fail to pay premiums on behalf of their employees. It is in your best interest to make sure that your subcontractors are registered contractors by contacting us at 1-800-647-0982.

(9) **Am I required to keep any special records of subcontractors that I use?**

Yes, you are required to keep certain information about the subcontractors that you use. A list of these recordkeeping requirements can be found in the audit and recordkeeping section of this manual.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31013, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31014 Farming and agriculture. (1) **Does this same classification approach apply to farming or agricultural operations?**

Yes, but it may not appear so without further explanation. We classify farming and agricultural operations by type of crop or livestock raised. This is done because each type of grower will use different processes and grow or raise multiple crops and livestock which have different levels of hazards. It is common for farmers and ranchers to have several basic classifications assigned to their account covering various types of crops or livestock. If you fail to keep the records required in the auditing recordkeeping section of this manual, and we discover this, we will assign all worker hours for which records were not maintained to the highest rated classification applicable to the work performed.

(2) **I am involved in diversified farming and have several basic classifications assigned to my business. Can I have one classification assigned to my account to cover the different types of farming I am involved in?**

Yes, your policy manager can assist you in determining the single classification that will apply to your business. The name and phone number of your policy manager can be found on your quarterly premium report or your annual rate notice. For your convenience you can call us at (360) 902-4817 and we will put you in contact with your assigned policy manager.

(3) **How do you determine what single farming classification will be assigned to my business?**

The approach used to assign a single classification to a farming business is much the same as we use for construction or erection contractors. To do this, we will need a break down of exposure *(estimate of hours to be worked by your employees)* by type of crop or livestock being cared for *(classification)*. This information will be used to estimate the premium which would be paid using multiple classifications. The total premium is then divided by the total estimated hours to produce an average rate per hour. We will select the classification assigned to your business which carries the hourly premium rate which is the closest to the average rate that we produced from the estimated hours. Classification 4806 is not to be assigned to any grower as the single farming classification.

(4) **How will I know what single farming classification you have assigned to my business?**

We will send you a written notice of the basic classification that will apply to your business.

(5) **If I requested a single classification for my farming operation can I change my mind and use multiple classifications?**

Yes, but you will need to call your policy manager to verify the applicable classifications.

The name and phone number of your policy manager can be found on your quarterly premium report or your annual rate notice. For your convenience you can call us at (360)

902-4817 and we will put you in contact with your assigned policy manager.

(6) **I am a farm labor contractor. How is my business classified?**

If you are a farm labor contractor we will assign the basic classification that applies to the type of crop being grown, or livestock being cared for. If you contract to supply both machine operators and machinery on a project, all operations are to be assigned to classification 4808.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31014, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31015 General inclusions. When are certain operations like delivery drivers included in a basic classification and when are they excluded? There are certain operations, such as delivery of goods or merchandise, which are routinely found in the businesses we insure. We refer to these operations as *general inclusions* to a basic classification. Although these operations are sometimes covered by a specific basic classification, we will not assign separate basic classifications to a business to cover these operations unless it was, coincidentally, the nature of the employer's business. *General inclusion* operations are support functions or operations of a business and, as such, are usually included within the scope of each basic classification. The determination of whether or not these operations will be included within the scope of a basic classification is made when the basic classification is first developed. That is why some basic classifications will exclude certain operations and others will include them. Unless the wording of a basic classification specifically excludes any operation listed below, they are to be included. The more common general inclusion operations are:

- Aircraft travel by employees in connection with the business of the employer, other than members of the flying crew.
- Commissaries and restaurants for the employers' employees. However, such operations, when operated in connection with construction, erection, lumbering, or mining, will be assigned classification 3905 - restaurants.
- Manufacture of containers, such as bags, barrels, bottles, boxes, cans, cartons, wooden pallets, or packing cases by employees of the employers for use in the employer's operations.
- Hospitals, medical facilities, or dispensaries operated by employers for their employees.
- Printing, lithography, or similar operations of the employer when used exclusively for their own products or needs.
- Maintenance or ordinary repair of the employer's building or equipment when performed by employees of the employer.
- Pick up and delivery when performed by employees of the employer in connection with the business of the employer.
- Sales of all products being manufactured by the employer.
- Warehousing, handling, packing, and shipping when performed by employees of the employer in connection with the business of the employer.
- Testing or analytical laboratories when operated by employees of the employer in connection with the business of the employer.

Example: *Picture the variety of delivery vans and trucks you encounter as you drive down a highway. In this example, there is a company-owned truck delivering grocery items, a van that delivers parcels and packages, a moving van transporting household furnishings for a customer, and a common carrier company hauling goods from one state to another. Even though the drivers of these vehicles are performing similar duties (hauling goods/driving on a freeway), we would not assign them to the same basic classification. Our classification policy requires us to assign classifications based on the type of the businesses they work for and to consider the overall operations of that business. We learn that the truck delivering grocery items was owned by a retail grocery store and they were transporting goods from a central warehouse to one of their stores. Since the employer is engaged in operating retail grocery stores we would begin our classification search by looking for a classification that covers retail grocery stores. Our search discloses classification 6402 which covers retail grocery stores. A review of the wording of that classification does not require drivers to be reported in another classification so the grocery store classification would include the driver. Now, assume that the driver of the van delivering parcels and packages is an employee of a drug store. Drug stores are covered in classification 6406. A review of that classification reveals that drivers are to be reported separately in classification 1101. Therefore the driver would be reported in classification 1101 and not classification 6406. Moving and storage companies are covered in classification 6907. Since this classification does not exclude drivers, the driver would be reported in classification 6907. And, finally, we would assign the interstate/intrastate trucking classification 1102 to the common carrier trucking operation.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31015, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31016 Classification by analogy. How do you determine what classification(s) to assign to my business if a specific reference does not exist in the classification plan? You may operate a business which is not specifically referenced in our classification plan. This can simply be the result of differences in terminology. Classifications are constantly evolving as employers adopt new technology, employ more specialized employees, modernize equipment, and employ new processes. In rare instances our classification plan will not specifically reference a type of business. When we discover a type of business or industry for which a classification does not exist, we will follow the same general classification approach that we use to classify a business when a reference does exist. However, we need to go a step further by considering the processes used and the related hazards. We call this *classifying by analogy.*

Example: *You are the owner of a pen manufacturing business. Assume we have contacted you and learn the following:*

- *You purchase all the plastic components from another unrelated business;*

- *Some of your pens have plastic housings and others have metal housings;*
- *You manufacture all of the small metal components at your plant;*
- *Your metal manufacturing consists of metal stamping, using metal lighter than nine gauge, and extrusion processes;*
- *You also manufacture small boxes to package your pens;*
- *You operate a printing department for printing your company's logo and pen information on the boxes;*
- *As a special service to customers, you will deliver their pens if they are within a sixty mile radius of your plant.*

We have over three hundred classifications. To simplify the classification process, we have grouped our classification codes into about thirty-eight smaller groupings which we refer to as a schedule grouping. In the case of a pen manufacturer, we can narrow our search to the group which covers metal goods manufacturing. Within the metal goods manufacturing group we have classifications that cover the fabrication of structural iron or steel beams used in construction; classifications that cover the manufacture of wood stoves, storage tanks, and other products using plate metal; classifications that cover light weight sheet metal works such as heating and ventilating duct work; and a classification that covers the manufacture of light metal products. In our search for a classification we encounter classification 3602. Classification 3602 includes the manufacture of fishing tackle, scientific instruments, metal buttons, and jewelry. When we consider the weight of metal, other materials used in the manufacture of the product, the manufacturing processes, and the end product, we conclude that classification 3602 is the most applicable to the manufacture of writing pens and would assign this classification to your pen manufacturing business.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31016, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31017 Multiple classifications. (1) **Can I have more than one basic classification assigned to my account?**

Yes, we will assign other classifications to your business when the assignment of another basic classification is required or permitted by the description(s) of the employer's other classification(s).

Example: *You operate a retail book store. We would assign classification 6406 to your retail book store. Assume that as a part of the book store business you have a separate lunch counter and espresso bar in one section of the book store. A review of classification 6406 reveals that lunch counters are to be reported separately in classification 3905. We would assign classification 3905 for your lunch counter and espresso bar operation. This classification (3905) would be in addition to the book store classification (6406). Remember to keep accurate records of the exposure of each employee by classification. If you do not keep accurate records we will assign the exposure of each employee to the highest rated classification applicable to the work they performed for you. A detailed explanation of payroll records you must keep can be found in WAC 296-17-35201.*

(2) **Are there other circumstances when I can have more than one basic classification assigned to my account?**

Yes, under certain circumstances we will assign more than one basic classification to your account. These circumstances include:

- The employer is operating a secondary business which includes operations that we do not consider a normal part of that employer's principal business in Washington, or
- The employer has multiple retail store locations.

In these instances we will assign additional basic classifications *only if all of the following conditions are met*:

- The employer maintains separate payroll records for each business,
- Different employees work in each business,
- Each business is separated by structural partitions if they share a common business location,
- Each business can exist independently of the other, and
- The classification language of the principal business does not prohibit the assignment of the secondary classification.

If all of the above *five* conditions are not met, then the operations of the secondary business will be reported in the highest rated classification that applies to the employer.

(3) **What do you mean by the term "principal business?"**

The principal business is represented by the basic classification assigned to an employer which produces the greatest amount of exposure. The principal business does not include standard exception or general exclusion classifications or operations.

(4) **If I have more than one basic classification assigned to my business and I have employees who do work in more than one of these classifications, can I divide their hours between these classifications on my quarterly report?**

Yes, you can divide the work hours of any one employee between two or more basic classifications provided the following conditions are met:

- The basic classification assigned to your business allows or requires a division of hours; and
- You keep detailed records of the actual time spent by each employee in each classification. Use of percentages, averages or estimates is not permitted. If you do not have original time card or time book entries to support your reporting, all worker hours in question will be assigned to the highest rated classification applicable to the work being performed.

Example: *In a previous rule (WAC 296-17-31017) we described a book store business that operated a lunch counter and espresso bar in connection with the book store. In that example, the book store business was assigned classification 6406. A review of classification 6406 revealed that the lunch counter operation was to be reported separately in classification 3905. Assume that you have one employee who, in addition to stocking and selling books, prepares sandwiches for customers on occasion. You must keep accurate time records by day for each employee. This time record must reflect the actual time the employee worked in the book store operation and the actual time worked preparing sandwiches.*

If you fail to keep these records all work hours in question would be assigned to the highest rated classification which, in this example, is classification 3905.

(5) **If my business is assigned a basic classification and a standard exception classification and I have an employee who works in both classifications, can I divide their exposure (hours) between the two classifications on my quarterly report?**

No, you cannot divide an employee's exposure *(work hours)* between a basic classification and standard exception classification. An explanation of "standard exception classification" is discussed in the next section *(WAC 296-17-31018(2))*. If an employee performs work covered by a basic classification and a standard exception classification, all of their exposure *(hours)* must be reported in the basic classification applicable to your business. You cannot report the exposure *(hours)* of any employee in a standard exception classification if they perform duties covered by a basic classification assigned to your business. Refer to WAC 296-17-31018 for a list and explanation of the *"exception classifications."*

(6) **I have more than one standard exception classification assigned to my business. One of my employees works in more than one of the standard exception classifications. Can I divide their exposure (hours) between two or more standard exception classifications on my quarterly report?**

No, you cannot divide an employee's work hours between two standard exception classifications. You must report all exposure *(work hours)* in the highest rated standard exception classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31017, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31018 Exception classifications. (1) **What are exception classifications?**

In *WAC 296-17-31012* we discussed our classification policy. We described the process used to classify risk and stated that we assign the basic classification or basic classifications that best describe the nature of your company's business. While this policy is modeled after the policy used by private insurance carriers and is geared to administrative ease for you, we recognize that there are some duties or operations where your employees do not share the same general workplace hazards that your other employees are exposed to. To provide for those operations that are outside the scope of a basic classification, we have created three types of exception classifications listed below:

- Standard exception classifications,
- Special exception classifications, and
- General exclusion classifications.

(2) **What are the standard exception classifications?**

Standard exception classifications cover those employments that are administrative in nature and common to many industries. Employees covered by a standard exception classification cannot be exposed to any operative hazard of the business. If the language of the basic classification assigned to your business does not include these employments, you may be able to report them separately. The standard exception classifications are:

- Classification 4904 *(WAC 296-17-653)* "clerical office employment." This classification includes clerical, administrative, and drafting employees.
- Sales personnel classifications 6301 *(WAC 296-17-696)*, 6302 *(WAC 296-17-697)*, and 6303 *(WAC 296-17-698)* includes outside sales personnel and messengers.
- Classification 7101 *(WAC 296-17-754)* applies to corporate officers who have elected optional coverage. A corporate officer as used in these rules is a person who is an officer in the corporation, such as the president, who also serves on the corporation's board of directors and owns stock in the corporation.

Clerical office employees are defined as employees whose duties are limited to: Answering telephones; handling correspondence; creating or maintaining financial, employment, personnel, or payroll records; composing informational material on a computer; creating or maintaining computer software; and technical drafting. Their work must be performed in a clerical office which is restricted to:

- A work area which is physically separated by walls, partitions, or other physical barriers, from all other work areas of the employer, and
- Where only clerical office work as described in this rule is performed.

A clerical office does not include any work area where inventory is located, where products are displayed for sale, or area where the customer brings products for payment. Clerical office employees can perform cashiering and telephone sales work if they do not provide any retail or wholesale customer service that involves handling, showing, demonstrating, or delivering any product sold by the employer. Clerical office employees can make bank deposits, pick up and deliver mail at the post office, or purchase office supplies, if their primary work duties are clerical office duties as defined in this rule.

Sales personnel are defined as employees whose duties are limited to: Soliciting new customers by telephone or in person; servicing existing customer accounts; showing, selling, or explaining products or services; completing correspondence; placing orders; performing public relations duties; and estimating. Although some of sales person's duties may be performed in a clerical office, most of their work is conducted away from the employer's physical business location or in showrooms. We refer to work that takes place away from the employer's premises as *"outside sales."* Sales personnel whose duties include customer service activities such as, but not limited to, the delivery of product, stocking shelves, handling inventory, or otherwise merchandising products sold to retail or wholesale customers are excluded from all standard exception classifications. Sales personnel with duties such as delivery and stocking of shelves are to be reported in the basic classification applicable to the business unless the basic classification assigned to the business requires another treatment.

Messengers are defined as employees whose duties are delivering interoffice mail, making deposits, and similar duties that are exclusively for the administration of the employer's business. Classification 6303 "messengers" does

not include delivering mail or packages to the employer's customer or as a service to the public. If a messenger is engaged in delivering mail or packages as a service to the public they are to be assigned to the basic classification of the business or classification 1101 as applicable.

Corporate officers duties in classification 7101 must be limited to: Clerical duties; outside sales duties as described above; administrative duties such as hiring staff, attending meetings, negotiating contracts, and performing public relations work. To qualify for this classification, a corporate officer must:

- Be a shareholder in the corporation,
- Be elected as a corporate officer and empowered in accordance with the articles of incorporation or bylaws of the corporation,
- Serve on the corporation's board of directors,
- Not have any exposure to any operative hazard of the business, and
- Not directly supervise employees who have any exposure to any operative hazard of the business.

Classification 6303 may apply to a corporate officer whose duties are limited to outside sales activities as described in the sales personnel section of this rule. Under no circumstance is classification 4904 to be assigned to any corporate officer. You cannot divide the work hours of an employee between a standard exception classification and a basic classification unless it is permitted by another rule. If an employee works part of their time in a standard exception classification and part of their time in your basic classification, then all exposure (hours) must be reported in the highest rated basic classification applicable to the work being performed.

(3) **What are the special exception classifications?**

Special exception classifications represent operations found within an employer's business that are allowed to be reported separately when certain conditions are met. Assuming the conditions have been met, the following classifications may be used even if your basic classification includes the phrases "all operations" or "all employees."

Security guards - classification 6601 *(WAC 296-17-723)* will apply if the security guard:

- Is an employee of an employer engaged in logging or construction,
- Is for the purpose of guarding the employer's logging or construction sites,
- Is employed at the site only during the hours the employer is not conducting any other operations at the site,
- Has no other duties during their work shift as a security guard.

If all of the above conditions are not met, the security guard is to be reported in the basic classification applicable to the construction or logging operation being conducted.

Janitors - classification 6602 *(WAC 296-17-724)* will apply if:

- The janitorial/cleaning activities being performed are limited to the employer's clerical office,
- The clerical office meets the criteria described earlier in this rule, and
- The employer's office employment is assigned to be reported in classification 4904.

Log truck drivers - classification 5003 *(WAC 296-17-66001)* will apply if the log truck driver has no other duties during their work shift that are subject to the logging classification 5001 *(WAC 296-17-659)*.

(4) **What are the general exclusion classifications?**

General exclusion classifications represent operations that are so exceptional or unusual that they are excluded from the scope of all basic classifications. If you have these operations, we will assign a separate classification to cover them. You must keep accurate records of the work hours your employees work in these classifications. If you do not keep accurate time records for each employee performing work covered by a general exclusion classification, we will assign the work hours in question to the highest rated classification applicable to those hours. The general exclusion classifications are:

- Aircraft operations: All operations of the flying crew.
- Racing operations: All operations of the drivers and pit crews.
- Diving operations: All operations of diving personnel and ship tenders who assist in diving operations.
- New construction or alterations of the business premises.
- Musicians and entertainers.

A division of work time is permitted between a standard exception classification and flight crew operations, racing operations, or diving operations. If you fail to keep original time records that clearly show the time spent in the office or in sales work, we will assign all work hours in question to the highest rated classification applicable to the work hours in question.

Example: *Assume a corporate officer performs duties which are described in classification 7101. Occasionally, the officer flies a plane to attend a meeting. You would report the flying exposure (hours) of the corporate officer in classification 6803. The remainder of the corporate officer's time would continue to be reported in classification 7101.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31018, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31019 Standard exception classification describes business. What if the only classification that describes my business is a standard exception classification? How do you assign classifications to my business?

When this happens we will assign the standard exception classification that best fits your business. Any work performed by employees that is outside of the scope of the exception classification will be classified according to the type of work being performed.

Example: *You operate an insurance company. Besides having office and sales employees you have a printing department where you produce office stationery, brochures, and insurance policies, and maintenance employees to clean the office. We would assign classification 4904 to your office employees, classification 6303 to your sales employees, classification 4101 for your printing operation and classification 6602 for your janitorial staff. Since classifications 4904 and 6303 are standard exceptions, they do not include printing or maintenance operations.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31019, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31020 Employee supporting multiple business operations. I have more than one basic classification assigned to my business. I have employees such as laundry workers whose duties never change but who support several operations. Can I divide their work hours on my quarterly report?

No, if we have assigned two or more basic classifications to your business and you have employees whose duties remain the same and are performed at the same location regardless of the operation they support, you would report these workers in the classification which carries the largest number of worker hours. To arrive at the classification that carries the largest number of worker hours, you must first eliminate the hours related to the employees who support two or more operations. Whichever basic classification carries largest number of worker hours after the supporting personnel have been segregated is the classification the supporting employees are to be reported in.

Example: *You operate a motel and a restaurant which are located next to each other. You have a laundry operation that cleans the linens for the restaurant as well as doing the sheets and towels for the motel. The laundry employee's duties never change regardless of whether they are doing linens or sheets. The classification of the laundry workers would depend on which classification produces the largest amount of exposure. Let us assume for this illustration that the motel has a larger exposure (hours worked) because you have reported the laundry workers in that classification. When you remove the laundry workers hours from both classifications the restaurant classification has the larger volume of exposure (hours worked). You would report the laundry workers in the restaurant classification.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31020, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31021 Units of exposure. (1) What is a "unit of exposure?"

A unit of exposure is the measure which is used to help determine the premium you will pay. For most businesses the unit of exposure is the ***hours*** worked by their employees. Because not all employees are compensated based on the hours they work, we have developed reporting alternatives to make reporting to us easier.

Example: *Employers in the horse racing industry pay their premiums based on a type of license their employees hold rather than the hours the employees work. Drywall contractors pay premiums based on the square footage of the materials they install rather than the hours it took their employees to install the drywall material.*

In other instances, we have developed daily, weekly, or monthly ***assumed*** work hours.

Example: *Commission sales employees who work primarily away from your premises, such as a real estate sales person, are to be reported on the basis of eight hours per day or forty hours per week.*

(2) **What are the alternatives to actual hours worked?**

The exceptions are:

- **Apartment house managers, caretakers, or similar employees:** To determine the number of hours you need to report to us, divide an employee's total compensation, including housing and utility allowances, by the average hourly wage for the classification. The total number of work hours to be reported for each employee is not to exceed 520 hours per quarter. You will need to call us at (360) 902-4817 to obtain average hourly wage information.
- **Baseball, basketball, and soccer teams - including players, coaches, trainers, and officials:** Report each individual at 40 hours per week for each week in which they have duties.
- **Commission personnel - outside (such as, but not limited to, real estate and insurance sales):** For each day they have duties, report each individual at eight hours per day for part-time employees and forty hours per week for full-time employees.
- **Drywall - stocking, installation, scrapping, taping, and texturing:** Premiums are based on material installed/finished rather than the hours it took to install/finish the drywall.
- **Horse racing - excluding jockeys:** Premiums are paid on a license basis and collected by the Washington horse racing commission at the time of licensing.
- **Jockeys:** Report ten hours for each race/mount or for any day in which duties are reported.
- **Race car drivers:** Report ten hours for each race/heat.
- **Salaried personnel:** All salaried employees of an employer must be reported by the same method. You must report either the actual hours worked for each employee ***or*** one hundred sixty hours per month. You cannot report some salaried workers based on the actual hours they work and others using the one hundred sixty hours per month method.

(3) **Can I use assumed work hours for piece workers?**

No, if you employ piece workers you must report the actual hours these individuals work for you unless another unit of exposure is required.

Example: *If you have employees engaged in drywall work you would report and pay premiums on the basis of the square footage of the material they installed not the hours they worked.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31021, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31022 Reporting exception classification employees. How do I report exception classification employees on my quarterly report? If the language of the basic classification assigned to your business does not include those occupations, operations or employments which we have defined by exception classifications and treatments, you may report them separately in the applicable exception classification. To report these employments, operations and occupations separately, you must meet all of the conditions specified in the exception classification rules which are applicable to the classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31022, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31023 Premium reporting. How often will I need to report and pay premiums? Most employers will report and pay premiums once every three months. We refer to these three-month periods as quarters. For example, the months of January, February, and March represent the

first quarter of a calendar year. In some cases employers report at more frequent intervals.

Example: *Reforestation contractors report on a contract basis for any project over ten thousand dollars. Since contracts may last only a few days, reforestation contractors may file reports daily, weekly, and monthly.*

If you do not have employees during a quarter, you must return your premium report by the due date and indicate "no payroll" or "no employees" across the face of the report. If you do not submit reports when required, we will estimate premiums and initiate legal action against you to collect premiums due.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31023, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31024 Classification rates. (1) **How do you determine what rate to charge me?**

Each classification has a corresponding base rate. The base rate assigned to your business will depend on the basic classification or classifications assigned to your business.

(2) **What do you mean by a base rate?**

The base rate is a comparison of losses *(claims)* and exposure to produce a cost per unit of exposure. The base rate is an unmodified rate that all employers with an experience factor of 1.000 will pay in a specific classification.

(3) **Do all employers in the same classification pay the base rate?**

In practice, only a few employers pay the *base rate*. If you are a new employer, you will pay the base rate until you have reported worker hours during the current *experience period*. After you have reported hours during an experience period, your rate will be modified as of January 1, of the next calendar year. We refer to that modified rate as your *experience rate*. Your experience rate is the base rate adjusted by your own company's claims losses *(experience factor)*. It can produce a premium higher or lower than the *base rate*. This means that employers with few claims will pay less than employers in the same classification who have many claims. Experience rating encourages strong safety and accident prevention programs. Details of how experience rating affects your premium are outlined in *WAC 296-17-850 through 296-17-875*. Your policy manager can also answer questions about your individual experience factor. The name and phone number of your policy manager can be found on your quarterly premium report or your annual rate notice. For your convenience you can call us at (360) 902-4817 and we will put you in contact with your assigned policy manager.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31024, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31025 Change in business operations. If I change the type of business I operate, or add a new operation, should I call you? Yes, we rely on you to update us about changes in your business operations. We provide a place on your quarterly premium reports to let us know about any changes you have made. If you need help determining if changes to your account are necessary, you can call your policy manager. Depending on the type of change you are making, you may need to complete a new master application. The name and phone number of your policy manager can be found on your quarterly premium report or annual rate notice. For your convenience you can call us at (360) 902-4817 and we will put you in contact with your assigned policy manager.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31025, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31026 Reporting multiple business operations. If I have more than one business, can I report them on the same account? The way the businesses are organized will make a difference. Each separate *"ownership type"* must be classified and reported separately from any other much the same way you must keep each business' financial records separate from any other. Your master application must specify the *"ownership type"* of your business, such as, sole proprietor, partnership, corporation, etc. If that one ownership type registration is for more than one location of the same business or more than one type of business, you can choose to report all of them on the same account or on separate accounts. However, if you register each as a separate ownership type, you must report them on separate accounts.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31026, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31027 Temporary help company. Sometimes I use temporary help employees which I obtain through a temporary help company. Do I have to report those workers to labor and industries in my basic classification? No, if you obtain temporary help employees from a temporary help company, the temporary help company should report these workers to us and pay the required premiums. Temporary help companies have special classifications assigned to them to report and pay premiums on behalf of their client businesses. These classifications are used only in the temporary help industry and are different from our basic classifications which are assigned to nontemporary help companies. If the temporary help service fails to pay premiums to us, the client company is held responsible for the unpaid premiums of any temporary help employee used by the client company.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31027, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31028 Closing accounts. What are my responsibilities when I close my business, or when I no longer have employees? You must notify us in writing when you close your business or when you no longer have employees. You may either send a letter, or include a note on your final quarterly report. We will not close your account from a telephone call.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31028, filed 8/28/98, effective 10/1/98.]

WAC 296-17-31029 Insurance principles. (1) **What insurance principles does the department of labor and industries use when a new classification is developed?**

Those principles are broken down into four major components as follows:

- Administration

- Equity
- Homogeneity
- Safety

A detailed explanation of these principles can be found in subsection (2) of this section.

(2) **What are these principles?**

- **Administration:** Recordkeeping requirements must be simple and easy to follow. If our classification system imposed burdensome recordkeeping requirements, most employers would find it difficult to comply. Resolving complaints related to burdensome recordkeeping requirements would be in nobody's interest. The premium rate for your basic classification is based on the *average* exposure to hazard of all your workers. If our classification system were based upon individual occupations, you would pay a lower rate for your workers whose duties are considered low hazard, but you would pay a higher rate for your workers who have duties that expose them to a greater hazard. The total premium you pay would not be decreased; it would only be redistributed and would require more recordkeeping. Having one basic classification assigned to cover all the operations makes recordkeeping and reporting easier for you.
- **Statistical credibility or equity:** By monitoring our classification plan, we ensure that enough hours are reported in each classification to provide a meaningful statistical base. A large enough statistical base helps avoid sudden large increases or decreases in rates and keeps them at the lowest possible level. We refer to this as *statistical credibility.* Classifications must also be *responsive to change* if equity and fairness are to be achieved. Our classification plan is in a constant state of evolution. In the early 1970s we had approximately 45 classifications. Today we have over 300 main classifications and approximately 1,000 subclassification codes to track losses. In some industries, the evolution is gradual, and no change to the classification itself is needed. We recognize that the wording used to describe a classification may not have kept up with changes in an industry. However, as the industry conditions evolve because of modern equipment, new processes or materials, or changes in employment laws and safety standards, so does the experience upon which the rate is based. In other words, the changes in the experience which is used to develop premium rates *reflect* new developments in processes, equipment, and technology even though the wording in the classification is unchanged. We strive to keep our classification language current. Although it would be easy to just change the classification wording as we encounter changes in an industry, Washington law requires that we conduct public hearings before we make official changes to the rule. We do this as a public safeguard and to involve business in the change process. As technologies change or new industries develop, we receive requests from industry representatives for new classifications or for determination of proper classification assignments for the new processes. We will evaluate the request and determine if there is a large enough group of employers to justify a new classification. Any classification must produce enough premium to cover losses. In addition, as specific industries become obsolete or certain processes are no longer in use we will discontinue the classifications that covered them.
- **Homogeneity:** Although it is rare that any two businesses are identical, our classification plan recognizes that similar businesses have similar exposures to occupational injury and disease. Employers with similar operations and exposures are grouped together so each classification includes common exposures and carries a rate that reflects those exposures. This method of grouping *homogenous* risks ensures that the overall cost of the workers' compensation system is distributed fairly among the businesses we insure. Classifications must also be *mutually exclusive.* Our classifications are clearly defined so that each type of business or industry fits in only one basic classification.
- **Workplace safety and accident prevention:** By classifying employers by the nature of their business, each industry can take responsibility for controlling its own workers' compensation costs. Employers may belong to a trade association, which usually offers safety or risk management services. If such services result in fewer and less costly accidents, that improved experience will tend to lower the base rates for that industry. If our classification system were based upon the occupations or duties of employees, the success of a single industry's safety or risk management program would have little impact on its premium costs.

Example: *Many retail grocery stores employ meat cutters. If grocery stores wanted to reduce the frequency of injury to their meat cutters they could develop a safety plan that focused on proper meat handling, lifting, and cutting. Assuming the safety program was successful and reduced the cost associated with meat cutter claims, the rate for grocery stores would go down. If, on the other hand, all meat cutters, such as those who work for restaurants, grocery stores, or slaughter houses, reported in a single meat cutter classification, it is doubtful that the grocery stores' safety program would have any impact on the premium rates since grocery stores' meat cutters would represent only a small portion of a meat cutter classification.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-31029, filed 8/28/98, effective 10/1/98.]

WAC 296-17-352 Audits. An audit of the employer's books, records and payrolls performed pursuant to the authority contained in RCW 51.48.040 may include but will not be limited to:

(1) An audit to determine whether an employer engaged in a business or trade has employment subject to the industrial insurance laws.

(2) A visual inspection of the employer's workplace or places for the purpose of determining appropriate classifications in accordance with the industrial insurance laws and rules as set forth in chapter 296-17 WAC.

(3) Audits containing a complete and detailed examination of the employer's books and records for a specific period to establish the reporting of the employer's payroll in accordance with the industrial insurance laws and the rules as set forth in chapter 296-17 WAC, and as well, chapter 296-15 WAC in the event the employer has been certified a self-insurer.

Except as otherwise provided in this rule any audit time period may be less than, but will not exceed, three years of the due dates of any payments from any employer where the

department has requested submission of the employer's books, or three years of the due dates of any payments where the employer makes claim for adjustment, recomputation or alteration of any such payment: *Provided,* That an employer certified to self-insure pursuant to the authority contained in chapter 51.14 RCW, shall be subject to such audit as deemed necessary to guarantee its compliance with the industrial insurance laws and rules and regulations for self-insurers: *Provided further,* That an employer who fails to make any books and records, or certified copies thereof, available for audit in the state of Washington, will be charged for all costs incurred by the department in auditing any books and records maintained at other places: *Provided further,* That in any instance where fraud may be indicated with respect to underpayment or nonpayment of premiums the audit time period may be extended beyond that previously set forth.

[Statutory Authority: RCW 51.16.035. 85-06-026 (Order 85-7), § 296-17-352, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-352, filed 11/27/78, effective 1/1/79; Order 76-36, § 296-17-352, filed 11/30/76; Order 76-18, § 296-17-352, filed 5/28/76, effective 7/1/76.]

WAC 296-17-35201 Recordkeeping and retention. Washington law (RCW 51.48.030) requires every employer to make, keep, and preserve records which are adequate to facilitate the determination of premiums due to the state for workers' compensation insurance for their covered workers. In the administration of Title 51 RCW, the department of labor and industries has deemed the records and information required in the various subsections of this section to be essential in the determination of premiums due to the state fund. The records so specified and required, shall be provided at the time of audit to any authorized representative of the department who has requested them.

Failure to produce the requested records within thirty days of the request, or within an agreed upon time period shall constitute prima facie evidence of noncompliance with this rule and shall invoke the statutory bar to challenge found in RCW 51.48.030 and/or RCW 51.48.040.

(1) Employment records. Every employer shall with respect to each worker, make, keep, and preserve original records containing all of the following information for three full calendar years following the calendar year in which employment occurred:

(a) The name of each worker;

(b) The Social Security number of each worker;

(c) The beginning date of employment for each worker and, if applicable, the separation date of employment of each such worker;

(d) The basis upon which wages are paid to each worker;

(e) The number of units earned or produced for each worker paid on a piecework basis;

(f) The risk classification applicable to each worker whenever the worker hours of any one employee are being divided between two or more classifications;

(g) The number of actual hours worked (WAC 296-17-320(15)) by each worker, unless another basis of computing hours worked is prescribed in WAC 296-17-350;

(h) A summary time record for each worker showing the calendar day or days of the week work was performed and the actual number of hours worked each work day;

(i) The workers' total gross pay period earnings;

(j) The specific sums withheld from the earnings of each worker, and the purpose of each sum withheld;

(k) The net pay earned by each such worker.

(2) Business, financial records, and record retention. Every employer is required to keep and preserve all original employment time records for three full calendar years following the calendar year in which employment occurred. The three-year period is specified in WAC 296-17-352 as the composite period from the date any such premium became due.

Employers who pay their workers by check are required to keep and preserve all check registers and bank statements. Employers who pay their workers by cash are required to keep and preserve records of these cash transactions which provide a detailed record of wages paid to each worker.

(3) Recordkeeping - Estimated premium computation. Any employer required by this section to make, keep, and preserve records containing the information as specified in subsections (1) and (2) of this section, who fails to make, keep, and preserve such records, shall for the purpose of premium calculation assume worker hours using the average hourly wage rate for each classification, and also will be subject to penalties prescribed in subsection (4) of this section. The records of the department as compiled for the preceding fiscal year ending June 30, shall be the basis for determining the average hourly wage rate: *Provided,* That the average hourly wage rate shall be no less than the state minimum wage existing at the time such assumed hours are worked. Notwithstanding any other provisions of this section, workers employed in a work activity center subject to Classification 7309 shall be reported on the basis of the average hourly wage.

(4) Failure to maintain records - Penalties. Any employer required by this section to make, keep, and preserve records containing the information as specified in subsections (1) and (2) of this section, who fails to make, keep, and preserve such record, shall be liable, subject to RCW 51.48.030, to a penalty in the amount of two hundred fifty dollars for each such offense. Failure to make, keep, and preserve records containing the information as specified in subsections (1) and (2) of this section, for a single employee shall constitute one offense, for two employees two offenses, and so forth.

[Statutory Authority: RCW 51.04.020. 95-08-052, § 296-17-35201, filed 4/3/95, effective 7/1/95.]

WAC 296-17-35202 Definitions. For the purpose of interpretation of this manual, chapter 296-17 WAC, or administering Title 51 RCW, the following terms shall have the meanings given below:

(1) "Free from control or direction" shall mean that the contracted individual has the responsibility to deliver a finished product or service without the contracting firm or individual either exercising direct supervision over the work hours or the methods and details of performance or having the right to exercise that authority under the contract.

(2) "Principle place of business" shall be the physical location of the business from which the contract of service is directed and controlled.

(3) "Within a reasonable period" for establishing an account with state agencies shall be the time prior to the first date on which the individual begins performance of service toward the contract or the date upon which the individual is required to establish an account with a state agency, as otherwise required by law, whichever event shall last occur.

(4) "Bona fide officer" means any person empowered in good faith by stockholders or directors, in accordance with articles of incorporation or bylaws, to discharge the duties of such officer.

(5) "Related by blood within the third degree" means the degree of kinship as computed according to the rules of the civil law.

(6) "Related by marriage" means the union subject to legal recognition under the domestic relations laws of this state.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-35202, filed 8/28/98, effective 10/1/98.]

WAC 296-17-35203 Special reporting instruction. (1) **Professional and semiprofessional athletic teams.** Athletes assigned to a Washington-domiciled sports team are mandatorily covered by Washington industrial insurance: *Provided,* That a professional athlete who is under contract with a parent team domiciled outside of the state of Washington while assigned to a team domiciled within Washington is subject to mandatory coverage by Washington industrial insurance unless the player and employer (parent team) have agreed in writing as to which state shall provide coverage in accordance with RCW 51.12.120(5).

The following rules shall apply to the written agreement:

(a) Agreement must be in writing and signed by the employer and the individual athlete.

(b) Agreement must specify the state that is to provide coverage. The state agreed upon to provide coverage must be a state in which the player's team, during the course of the season, will engage in an athletic event. For example, if the Washington-based team is a part of a league with teams in only Washington, Oregon, and Idaho, the player and the employer can agree to any of those three states to provide coverage. However, they could not agree to have California provide the coverage as this would not qualify as a state in which the player regularly performs assigned duties.

(c) The state agreed upon accepts responsibility for providing coverage and acknowledges such to the department by certified mail.

(d) Agreement and certification by the other state must be received by this department's underwriting section prior to any injury incurred by the athlete.

(e) Agreement will be for one season only commencing with the assigning of the player to a particular team. A separate agreement and certification must be on file for each additional season.

Failure to meet all of these requirements will result in the athlete being considered a Washington worker for premium and benefit purposes until such time as all requirements have been met.

Professional sports teams who are domiciled outside the state of Washington and who participate in sporting events with Washington-domiciled teams are not subject to Washington industrial insurance for their team members while in this state. These out-of-state teams are not considered employers subject to Title 51 on the basis that they are not conducting a business within this state.

(2) **Excluded employments.** Any employer having any person in their employ excluded from industrial insurance whose application for coverage under the elective adoption provisions of RCW 51.12.110 or authority of RCW 51.12.095 or 51.32.030 has been accepted by the director shall report and pay premium on the actual hours worked for each such person who is paid on an hourly, salaried-part time, percentage of profit or piece basis; or one hundred sixty hours per month for any such person paid on a salary basis employed full time. In the event records disclosing actual hours worked are not maintained by the employer for any person paid on an hourly, salaried-part time, percentage of profits or piece basis the worker hours of such person shall be determined by dividing the gross wages of such person by the state minimum wage for the purpose of premium calculation. However, when applying the state minimum wage the maximum number of hours assessed for a month will be one hundred sixty.

(3) **Special trucking industry rules.** The following subsection shall apply to all trucking industry employers as applicable.

(a) Insurance liability. Every trucking industry employer operating as an intrastate carrier or a combined intrastate and interstate carrier must insure their workers' compensation insurance liability through the Washington state fund or be self-insured with the state of Washington.

Washington employers operating exclusively in interstate or foreign commerce or any combination of interstate and foreign commerce must insure their workers' compensation insurance liability for their Washington employees with the Washington state fund, be self-insured with the state of Washington, or provide workers' compensation insurance for their Washington employees under the laws of another state when such other state law provides for such coverage.

Interstate or foreign commerce trucking employers who insure their workers' compensation insurance liability under the laws of another state must provide the department with copies of their current policy and applicable endorsements upon request.

Employers who elect to insure their workers' compensation insurance liability under the laws of another state and who fail to provide updated policy information when requested to do so will be declared an unregistered employer and subject to all the penalties contained in Title 51 RCW.

(b) Reporting. Trucking industry employers insuring their workers' compensation insurance liability with the Washington state fund shall keep and preserve all original time records/books including supporting information from drivers' logs for a period of three calendar years plus three months.

Employers are to report actual hours worked, including time spent loading and unloading trucks, for each driver in their employ. For purposes of this section, actual hours worked does not include time spent during lunch or rest periods or overnight lodging.

Failure of employers to keep accurate records of actual hours worked by their employees will result in the department estimating work hours by dividing gross payroll wages by the state minimum wage for each worker for whom records were not kept. However, in no case will the estimated or actual hours to be reported exceed five hundred twenty hours per calendar quarter for each worker.

(c) Exclusions. Trucking industry employers meeting all of the following conditions are exempted from mandatory coverage.

(i) Must be engaged exclusively in interstate or foreign commerce.

(ii) Must have elected to cover their Washington workers on a voluntary basis under the Washington state fund and must have elected such coverage in writing on forms provided by the department.

(iii) After having elected coverage, withdrew such coverage in writing to the department on or before January 2, 1987.

If all the conditions set forth in (i), (ii), and (iii) of this subsection have not been met, employers must insure their workers' compensation insurance liability with the Washington state fund or under the laws of another state.

(d) Definitions. For purposes of interpretation of RCW 51.12.095(1) and administration of this section, the following terms shall have the meanings given below:

(i) "Agents" means individuals hired to perform services for the interstate or foreign commerce carrier that are intended to be carried out by the individual and not contracted out to others but does not include owner operators as defined in RCW 51.12.095(1).

(ii) "Contacts" means locations at which freight, merchandise, or goods are picked up or dropped off within the boundaries of this state.

(iii) "Doing business" means having any terminals, agents or contacts within the boundaries of this state.

(iv) "Employees" means the same as the term "worker" as contained in RCW 51.08.180.

(v) "Terminals" means a physical location wherein the business activities (operations) of the trucking company are conducted on a routine basis. Terminals will generally include loading or shipping docks, warehouse space, dispatch offices and may also include administrative offices.

(vi) "Washington" shall be used to limit the scope of the term "employees." When used with the term "employees" it will require the following test for benefit purposes (all conditions must be met).

- The individual must be hired in Washington or must have been transferred to Washington; and
- The individual must perform some work in Washington (i.e., driving, loading, or unloading trucks).

(4) **Forest, range, or timber land services—Industry rule.** Washington law (RCW 51.48.030) requires every employer to make, keep, and preserve records which are adequate to facilitate the determination of premiums (taxes) due to the state for workers' compensation insurance coverage for their covered workers. In the administration of Title 51 RCW, and as it pertains to the forest, range, or timber land services industry, the department of labor and industries has deemed the records and information required in the various subsections of this section to be essential in the determination of premiums (taxes) due to the state fund. The records so specified and required, shall be provided at the time of audit to any representative of the department who has requested them.

Failure to produce these required records within thirty days of the request, or within an agreed upon time period, shall constitute noncompliance of this rule and RCW 51.48.030 and 51.48.040. Employers whose premium computations are made by the department in accordance with (d) of this subsection are barred from questioning, in an appeal before the board of industrial insurance appeals or the courts, the correctness of any assessment by the department on any period for which such records have not been kept, preserved, or produced for inspection as provided by law.

(a) General definitions. For purpose of interpretation of this section, the following terms shall have the meanings given below:

(i) "Actual hours worked" means each workers' composite work period beginning with the starting time of day that the employees' work day commenced, and includes the entire work period, excluding any nonpaid lunch period, and ending with the quitting time each day work was performed by the employee.

(ii) "Work day" shall mean any consecutive twenty-four-hour period.

(b) Employment records. Every employer shall with respect to each worker, make, keep, and preserve original records containing all of the following information for three full calendar years following the calendar year in which the employment occurred:

(i) The name of each worker;

(ii) The Social Security number of each worker;

(iii) The beginning date of employment for each worker and, if applicable, the separation date of employment for each such worker;

(iv) The basis upon which wages are paid to each worker;

(v) The number of units earned or produced for each worker paid on a piece-work basis;

(vi) The risk classification(s) applicable to each worker;

(vii) The number of actual hours worked by each worker, unless another basis of computing hours worked is prescribed in WAC 296-17-31021. For purposes of chapter 296-17 WAC, this record must clearly show, by work day, the time of day the employee commenced work, and the time of day work ended;

(viii) A summary time record for each worker showing the calendar day or days of the week work was performed and the actual number of hours worked each work day;

(ix) In the event a single worker's time is divided between two or more risk classifications, the summary contained in (b)(viii) of this subsection shall be further broken down to show the actual hours worked in each risk classification for the worker;

(x) The workers' total gross pay period earnings;

(xi) The specific sums withheld from the earnings of each worker, and the purpose of each sum withheld;

(xii) The net pay earned by each such worker.

(c) Business, financial records, and record retention. Every employer is required to keep and preserve all original time records completed by their employees for a three-year period. The three-year period is specified in WAC 296-17-352 as the composite period from the date any such premium became due.

Employers who pay their workers by check are required to keep and preserve a record of all check registers and cancelled checks; and employers who pay their workers by cash are required to keep and preserve records of these cash transactions which provide a detailed record of wages paid to each worker.

(d) Recordkeeping - estimated premium computation. Any employer required by this section to make, keep, and preserve records containing the information as specified in (b) and (c) of this subsection, who fails to make, keep, and preserve such records, shall have premiums calculated as follows:

(i) Estimated worker hours shall be computed by dividing the gross wages of each worker for whom records were not maintained and preserved, by the state's minimum wage, in effect at the time the wages were paid or would have been paid. However, the maximum number of hours to be assessed under this provision will not exceed five hundred twenty hours for each worker, per quarter for the first audited period. Estimated worker hours computed on all subsequent audits of the same employer that disclose a continued failure to make, keep, or preserve the required payroll and employment records shall be subject to a maximum of seven hundred eighty hours for each worker, per quarter.

(ii) In the event an employer also has failed to make, keep, and preserve the records containing payroll information and wages paid to each worker, estimated average wages for each worker for whom a payroll and wage record was not maintained will be determined as follows: The employer's total gross income for the audit period (earned, received, or anticipated) shall be reduced by thirty-five percent to arrive at "total estimated wages." Total estimated wages will then be divided by the number of employees for whom a record of actual hours worked was not made, kept, or preserved to arrive at an "estimated average wage" per worker. Estimated hours for each worker will then be computed by dividing the estimated average wage by the state's minimum wage in effect at the time the wages were paid or would have been paid as described in (d)(i) of this subsection.

(e) Reporting requirements and premium payments.

(i) Every employer who is awarded a forest, range, or timber land services contract must report the contract to the department promptly when it is awarded, and prior to any work being commenced, except as provided in (e)(iii) of this subsection. Employers reporting under the provisions of (e)(iii) of this subsection shall submit the informational report with their quarterly report of premium. The report shall include the following information:

(I) The employers' unified business identification account number (UBI).

(II) Identification of the landowner, firm, or primary contractor who awarded the contract, including the name, address, and phone number of a contact person.

(III) The total contract award.

(IV) Description of the forest, range, or timber land services work to be performed under terms of the contract.

(V) Physical location/site where the work will be performed including legal description.

(VI) Number of acres covered by the contract.

(VII) Dates during which the work will be performed.

(VIII) Estimated payroll and hours to be worked by employees in performance of the contract.

(ii) Upon completion of every contract issued by a landowner or firm that exceeds a total of ten thousand dollars, the contractor primarily responsible for the overall project shall submit in addition to the required informational report described in (e)(i) of this subsection, report the payroll and hours worked under the contract, and payment for required industrial insurance premiums. In the event that the contracted work is not completed within a calendar quarter, interim quarterly reports and premium payments are required for each contract for all work done during the calendar quarter. The first such report and payment is due at the end of the first calendar quarter in which the contract work is begun. Additional interim reports and payments will be submitted each quarter thereafter until the contract is completed. This will be consistent with the quarterly reporting cycle used by other employers. Premiums for a calendar quarter, whether reported or not, shall become due and delinquent on the day immediately following the last day of the month following the calendar quarter.

(iii) A contractor may group contracts issued by a landowner, firm, or other contractor that total less than ten thousand dollars together and submit a combined quarterly report of hours, payroll, and the required premium payment in the same manner and periods as nonforestation, range, or timber land services employers.

(f) Out-of-state employers. Forest, range, or timber land services contractors domiciled outside of Washington state must report on a contract basis regardless of contract size for all forest, range, or timber land services work done in Washington state. Out-of-state employers will not be permitted to have an active Washington state industrial insurance account for reporting forest, range, or timber land services work in the absence of an active Washington forest, range, or timber land services contract.

(g) Work done by subcontract. Any firm primarily responsible for work to be performed under the terms of a forest, range, or timber land services contract, that subcontracts out any work under a forest, range, or timber land services contract must send written notification to the department prior to any work being done by the subcontractor. This notification must include the name, address, Social Security number, farm labor contractor number, (UBI) of each subcontractor, and the amount and description of contract work to be done by subcontract.

(h) Forest, range, or timber land services contract release - verification of hours, payroll, and premium. The department may verify reporting of contractors by way of an on-site visit to an employers' work site. This on-site visit may include close monitoring of employees and employee work hours. Upon receipt of a premium report for a finished contract, the department may conduct an audit of the firm's payroll, employment, and financial records to validate reporting. The

department will notify the contractor, and the entity that awarded the contract, of the status of the contractors' account immediately after verification. The landowner, firm, or contractors' premium liability will not be released until the final report for the contract from the primary contractor and any subcontractors has been received and verified by the department.

(i) Premium liability - work done by contract. Washington law (RCW 51.12.070) places the responsibility for industrial insurance premium payments primarily and directly upon the person, firm, or corporation who lets a contract for all covered employment involved in the fulfillment of the contract terms. Any such person, firm, or corporation letting a contract is authorized to collect from the contractor the full amount payable in premiums. The contractor is in turn authorized to collect premiums from any subcontractor they may employ his or her proportionate amount of the premium payment.

To eliminate premium liability for work done by contract permitted by Title 51 RCW, any person, firm, or corporation who lets a contract for forest, range, or timber land services work must submit a copy of the contract they have let to the department and verify that all premiums due under the contract have been paid.

Each contract submitted to the department must include within its body, or on a separate addendum, all of the following items:

(I) The name of the contractor who has been engaged to perform the work;

(II) The contractor's UBI number;

(III) The contractor's farm labor contractor number;

(IV) The total contract award;

(V) The date the work is to be commenced; a description of the work to be performed including any pertinent acreage information;

(VI) Location where the work is to be performed;

(VII) A contact name and phone number of the person, firm, or corporation who let the contract;

(VIII) The total estimated wages to be paid by the contractor and any subcontractors;

(IX) The amount to be subcontracted out if such subcontracting is permitted under the terms of the contract;

(X) The total estimated number of worker hours anticipated by the contractor and his/her subcontractors in the fulfillment of the contract terms;

(j) Reports to be mailed to the department. All contracts, reports, and information required by this section are to be sent to:

The Department of Labor and Industries
Reforestation Team 8
P.O. Box 44168
Tumwater, Washington 98504-4168

(k) Rule applicability. If any portion of this section is declared invalid, only that portion is repealed. The balance of the section shall remain in effect.

(5) **Logging and/or tree thinning—Mechanized operations—Industry rule.** The following subsection shall apply to all employers assigned to report worker hours in risk classification 5005, WAC 296-17-66003.

(a) Every employer having operations subject to risk classification 5005 "logging and/or tree thinning - mechanized operations" shall have their operations surveyed by labor and industries insurance services staff prior to the assignment of risk classification 5005 to their account. Annual surveys will be required after the initial survey to retain the risk classification assignment.

(b) Every employer as a prerequisite of being assigned risk classification 5005 and having exposure (work hours) which is reportable under other risk classifications assigned to the employer shall be required to establish a separate subaccount for the purpose of reporting exposure (work hours) and paying premiums under this risk classification (5005). Except as otherwise provided for in this rule, only exposure (work hours) applicable to work covered by risk classification 5005 shall be reported in this subaccount. In the event that the employer's only other reportable exposure (work hours) is subject to one of the standard exception risk classifications, or the shop or yard risk classification then all exposure (work hours) will be reported under a single main account.

(c) Every employer assigned to report exposure (work hours) in risk classification 5005 shall supply an addendum report with their quarterly premium report which lists the name of each employee reported under this classification during the quarter, the Social Security number of such worker, the piece or pieces of equipment the employee operated during the quarter, the number of hours worked by the employee during the quarter, and the wages earned by the employee during the quarter.

(6) **Special drywall industry rule.**

(a) **Why are we changing the way you pay premiums?** Under Washington law (RCW 51.16.035), we are given the authority to establish how workers' compensation insurance rates are computed. For most industries, workers' compensation insurance rates are based on hours worked by employees. While the worker hour system works well for most industries, this method of paying premium can be unfair when a large segment of workers within an industry are not paid an hourly wage. The drywall industry is one in which many workers are paid on the basis of material installed, finished, stocked and/or scrapped (piece work), not the hours they work. As a result, employers have developed a variety of different ways of converting payroll to hours worked to comply with our hourly reporting requirements. In many instances the conversion of payroll to hours worked has resulted in the under reporting of work hours to us. Under reporting results in higher premium rates which you pay. To help remedy the problems caused by using work hours as the basis of how you pay premiums, and to provide greater fairness to employers engaged in drywall work, the premium for classifications 0524, 0526, 0527, 0528, 0529, 0530, 0531, 0532, 0533, and 0534 is based on material (square feet).

(b) **How can I qualify for a discounted rate?** For each drywall industry classification, we will establish a second classification covering the same activity. The second classification will carry a discounted rate. To qualify for a discounted classification and rate you will be required to meet all of the following conditions:

(i) Prior to the end of the quarter that you want the discounted classifications and rates to be applied to your business, you must attend two workshops that we will offer. For example, if you want the discounted classifications and rates to apply to your business for the third quarter 1997 (July 1 through September 30, 1997), you must attend the two workshops by September 30, 1997. One of the workshops covers claims and risk management practices. The other workshop will cover premium reporting and recordkeeping. The two workshops may be offered together or separately. Be sure to sign in so that you receive credit for attending the workshops.

(ii) Provide us with a signed and completed voluntary release of information form that we will provide to you or your representative at the workshops. We will use this release form to obtain material and supply/purchase sales records from the material supply dealer(s) that you use in the event of an audit. This will aid us as we verify the information you supply us on your premium and supplemental reports. If we need to verify the information that you supplied us, we will send you written notice before we contact your material supply dealer(s). We must receive this release form prior to the end of the quarter in which you want the discounted classifications and rates to become effective. For example, if you want the discounted classifications and rates to apply to your business for the third quarter 1997 (July 1 through September 30, 1997), we must receive your signed and completed release of information form by September 30, 1997. You can complete the voluntary release form at the workshop and give it to our representative at the workshop or mail it to:

Labor and Industries
Employer Services - Drywall Manager
P.O. Box 44166
Olympia, Washington 98504-4166

(iii) Submit complete and accurate premium reports when they are due and be current with all premium reports and payments. If you owe us money (premiums) for any quarter or period prior to December 31, 1996, we will allow you to report in the discounted classifications. To meet this condition you must file all reports required by this section when due; and if you have not paid premiums which were due for any quarterly report you submitted to us prior to and including the fourth quarter 1996 (October 1, through December 31, 1996), either pay the balance due immediately or maintain a current payment agreement with us for any past due premium. For purposes of this section, a "current payment agreement" is a written legal agreement which we have approved and entered into with you. This agreement will set forth your unpaid premium obligation, any applicable penalties and interest that must be paid, the amount of each installment (payment) and a schedule of payment due dates. If you fail to make any payment covered in a payment agreement you will lose the right to use the discounted classifications and rates. You will not be allowed to use a discounted classification or rate if you fail to submit reports, or make premium payments on time for any period beginning with the first quarter 1997. This requirement applies to any classification assigned to your business and for any exposure (hours, square feet, etc.,) which occurs after January 1, 1997.

(iv) Provide us with a supplemental quarterly report which shows by employee the employee's name and Social Security number, the wages you paid them during the quarter, the basis for how they are paid, (piece rate, commission, hourly, etc.,) their rate of pay per unit/hour, and a notation as to whether they are an installer, finisher, scrapper, painter, etc. This report is to be attached to and submitted with your quarterly premium report.

(v) For any work which you subcontract to others, you must maintain the records described in WAC 296-17-31013.

(vi) Keep and retain the payroll and employment records described in WAC 296-17-35201.

If you do not meet all of the above conditions, we will not assign the discounted rates to your business and you will be required to pay premiums in the nondiscounted classification(s).

(c) **Can I be disqualified from using the discounted rates?** Yes, as opposed to failing to qualify because you did not meet the conditions of (b) of this subsection, your business will be disqualified from using the discounted premium rates if you do not file premium reports on time; if you fail to pay premiums on time; if you under report or misclassify the work performed by your employees; if you fail to maintain the payments in a payment agreement you have entered into with us; or fail to meet any other condition set forth in this rule.

(d) **How long will I be disqualified from using the discounted classifications?** If we disqualify your business from using the discounted classifications, the disqualification will be for three years (thirty-six months) from the period of last noncompliance.

(e) **I have several businesses, if one of my businesses is disqualified from using the discounted rates will that affect my other businesses?** Yes, if you have ownership interest in a business which has been disqualified from using the discounted rates, and you also have ownership interest in other construction businesses which have separate industrial insurance accounts or subaccounts, all businesses in which you have ownership interest will be disqualified from using the discounted rates. This includes a business which you own or owned that is in bankruptcy status and for which you have not entered into a payment agreement, if you owe us any money; or money that you owe us which we wrote off as an uncollectible debt.

(f) **What if I make a mistake in how I reported to you, should I correct the error?** Yes, you should send in a revised report with an explanation of the error you are trying to correct. If we audit your business, and we determine that you have under reported exposure in any classification assigned to your business, all exposure which you reported in the discounted classifications for the audit period will be reclassified to the nondiscounted classifications.

(g) **If I disagree with an audit or other decision can I still use the discounted rates while we are resolving the issue?** Yes, if you are involved in a dispute with us over the status of an independent contractor, the issue being whether an individual is a covered worker; the proper classification of work your employees performed; or under reporting; you may qualify for the discounted classifications by paying the disputed amount while the issue is under dispute. In the event

the issue is resolved in your favor we will refund any moneys which you paid which were disputed. We will not pay interest on the refunded amount. If you do not pay the audit balance or disputed amount when requested or post an equivalent bond, you will not be permitted to use any of the discounted classifications.

(h) **I am the owner of the business, and I do some of the work myself, can I deduct the work I do from the total square feet to be reported to you?** Yes, as an owner of the business you can deduct the amount of work that you did from the total square feet which you are going to report to us.

(i) **How do I calculate and report this deduction to you?** To claim this deduction you must send us a report which shows by job, project, site or location the total amount of material that was installed or finished at that job, project, site or location; the amount of material which you as the owner installed and/or finished at the job, project, site or location; the hours that it took you to install and/or finish the material you are claiming deduction for; the total material installed and/or finished by employees at the job, project, site or location; and the hours the employees worked by job, project, site or location. This report must accompany the quarterly report in which you are claiming a deduction. If there are several owners, you must supply this information for each owner you wish to claim a deduction for.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-35203, filed 8/28/98, effective 10/1/98.]

WAC 296-17-35204 Penalty assessments for employers who fail to register under Title 51 RCW. (1) Any employer who has failed to secure payment of compensation for their workers covered under this title will be liable, subject to RCW 51.48.010, to a maximum penalty in a sum of five hundred dollars or in a sum double the amount of premiums due for the four quarters prior to securing payment of compensation under this title, whichever is greater, for the benefit of the medical aid fund.

(2) If an injury or occupational disease is sustained by a worker of an employer who has failed to secure payment of compensation under this title that employer may also be liable for the cost of such an injury or occupational disease at the time the claim for benefits is accepted by the department.

For the purposes of this section only the cost of such claim will be determined as follows:

The case reserve value shall be determined by the nature of the injury or occupational disease, the part of the body affected and other factors which will impact the cost, including but not limited to, age, education and work experience. The case reserve value will include actual costs paid to date and estimated future claim costs. No further adjustments or evaluations of the cost of the claim will be made for the purposes of this subsection after assessment for the cost of an injury or occupational disease is made by the department.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-35204, filed 8/28/98, effective 10/1/98.]

WAC 296-17-501 Classification 0101.

0101-00 Land clearing: Highway, street and road construction, N.O.C.

Applies to contractors engaged in clearing right of ways for subsurface construction on a new or existing highway, street, or roadway project that is not covered by another classification (N.O.C.). The subsurface is the roadbed foundation consisting of dirt, sand, gravel and/or ballast which has been leveled and compressed. Unless the finished project is a compressed gravel road, the subsurface or sub base is constructed prior to any asphalt or concrete paving activities. Work contemplated by this classification involves the excavation of rocks and boulders, removal of tree stumps, clearing or scraping land of vegetation, grubbing, earth excavation, cut and fill work, and bringing the roadbed to grade. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as, but not limited to, shovels, scrapers, bulldozers, graders, rollers, and dump trucks.

This classification excludes asphalt surfacing or resurfacing on roadways which is to be reported separately in classification 0210; construction specialty services such as the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219; bridge or tunnel construction including the abutments and approaches which is to be reported separately in classification 0201; felling of trees which is to be reported separately in the applicable logging classification; and logging road construction which is to be reported separately in classification 6902.

0101-01 Land clearing: Airport landing strips, runways and taxi ways; alleys and parking lots

Applies to contractors primarily engaged in clearing right of ways for subsurface construction on a new or existing airport landing strip, runway, and taxi way. This classification also includes clearing of right of ways for alley and parking lot projects. The subsurface is the foundation consisting of dirt, sand, gravel and/or ballast which has been leveled and compressed. Unless the finished project is compressed gravel, the subsurface or sub base is constructed prior to any asphalt or concrete paving activities. Work contemplated by this classification involves the excavation of rocks and boulders, removal of tree stumps, clearing or scraping land of vegetation, grubbing, earth excavation, cut and fill work, and bringing the roadbed or project site to grade. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as, but not limited to, shovels, scrapers, bulldozers, graders, rollers, and dump trucks.

This classification excludes asphalt surfacing or resurfacing on roadways which is to be reported separately in classification 0210; construction specialty services such as the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219; and felling of trees which is to be reported separately in the applicable logging classification.

0101-02 Excavation work, N.O.C.

Applies to contractors engaged in general excavation work for others that is not covered by another classification (N.O.C.). Work contemplated by this classification involves excavating or digging of earth to form the foundation hole such as for a wood-frame or nonwood-frame building and side sewer hookups (street to house) when performed as part of the excavation contract. Activities include, but are not lim-

ited to, excavation of rocks and boulders, removal of tree stumps, clearing or scraping land of vegetation, grubbing, piling or pushing of earth, earth excavation, cut and fill work, backfilling, etc. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as, but not limited to, shovels, scrapers, bulldozers, graders and dump trucks.

This classification excludes asphalt surfacing or resurfacing on roadways which is to be reported separately in classification 0210 and felling of trees which is to be reported separately in the applicable logging classification.

0101-03 Grading work, N.O.C.

Applies to contractors engaged in various forms of grading work for others that are not covered by another classification (N.O.C.). Typical equipment used is a grader, but other equipment such as a bulldozer and a front end loader may also be used. Work contemplated by this classification includes, but is not limited to, leveling and grading lands, spreading dirt, sand, gravel and/or ballast to desired contour on farm lands or other tracts of land.

0101-04 Land clearing, N.O.C.

Applies to contractors engaged in general land clearing work that is not covered by another classification (N.O.C.). This classification includes, but is not limited to, excavation of rocks and boulders, removal of tree stumps, clearing or scraping land of vegetation, grubbing, piling or pushing of earth to rearrange the terrain, earth excavation, cut and fill work, backfilling, and slope grooming. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as, but not limited to, shovels, scrapers, bulldozers, graders and dump trucks.

This classification excludes felling of trees which is to be reported separately in the applicable logging classification.

0101-16 Railroad line: Construction, maintenance and repair, N.O.C.

Applies to contractors engaged in the construction, maintenance and repair of railroad tracks not covered by another classification (N.O.C.), including the dismantling of track and the sale of salvaged track metal and ties. Work contemplated by this classification includes all operations on new or existing main lines, side tracks and spurs to industrial properties. This classification includes, but is not limited to, the laying of rock or ballast, laying of ties and track, installation of crossover frogs and switches, erection of switch stands and switch mechanism, erection of cattle guards, the placing of grade crossing planks, and similar activities related to the laying or relaying of railroad lines and also includes the dismantling of railroad main lines, side tracks and spurs to include track, ties, etc., and the subsequent storage and sale of salvaged material after the railroad line is dismantled.

This classification excludes asphalt surfacing/resurfacing and all concrete construction work which is to be reported separately in the applicable asphalt or concrete construction classification; logging railroad construction which is to be reported separately in classification 6902; and the construction, maintenance, or repair of an elevated railway which is to be reported separately in classification 0508.

0101-17 Retaining wall: Construction or repair when done in connection with road, street and highway construction, N.O.C.

Applies to contractors engaged in the construction or repair of retaining walls in connection with highway, street, or roadway projects that are not covered by another classification (N.O.C.). Retaining walls are often constructed to protect against potential problems such as earth slides or erosion of banks alongside a roadway or overpass. Work contemplated by this classification involves large scale excavation to contour a specific area of earth serving as a retaining wall. Activities include, but are not limited to, excavation, clearing, cut and fill work, backfilling, grading and slope grooming. Fill material used may include dirt, sand, stone or boulder. Equipment used by contractors subject to this classification includes, but is not limited to, scrapers, bulldozers, graders, backhoes and dump trucks.

This classification excludes asphalt surfacing or resurfacing on roadways which is to be reported separately in classification 0210; concrete construction which is to be reported separately in the applicable concrete construction classification; construction specialty services such as the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219; bridge or tunnel construction including the abutments and approaches which is to be reported separately in classification 0201; felling of trees by chain saw which is to be reported separately in classification 5001; logging road construction which is to be reported separately in classification 6902; and tunnels and approaches including lining, cofferdam work, shaft sinking and well digging with caissons which is to be reported separately in classification 0201.

0101-36 Tree care and pruning services, N.O.C.

Applies to specialist contractors engaged in providing a variety of tree care services such as tree topping and tree pruning that are not covered by another classification (N.O.C.). Work contemplated by this classification generally takes place in residential areas, parking lots, business parks, shopping malls, or settings adjacent to nonforestry or timberland roadways. A primary purpose of this work is to remove tree or branch hazards from power lines, structures, or buildings. This classification includes, but is not limited to, incidental ground operations such as picking up branches and limbs, operating mobile chip machines used in connection with a tree care service, spraying or fumigating of trees, debris removal and stump removal when conducted by employees of an employer subject to this classification.

This classification excludes tree care services done in connection with an orchard operation which is to be reported separately in classification 4803 when performed by orchard employees; tree care services done in connection with a nursery operation which is to be reported separately in classification 4805; tree care services done in connection with a public or private forest or timberland which is to be reported separately in classification 5004; or tree care services done in connection with a Christmas tree farm operation which is to be reported separately in classification 7307.

0101-37 Soil remediation

Applies to establishments engaged in various types of remediation of soil contaminated with hazardous or toxic materials. Soil remediation can take place at the site of the contamination, or the contaminated soil may be hauled to another area for remediation. This classification also includes oil spill cleanup on land. Equipment used will include backhoes and front end loaders, as well as other types of dirt moving equipment.

The methods used for soil remediation may include, but are not limited to, the following:

- Bio-remediation
- Encapsulation
- Excavation and hauling to an approved disposal site
- Hot air vapor extraction
- Soil vapor extraction
- In situ vitrification
- Land farming
- Mobile incineration
- Thermal disabsorption
- Stabilization

This classification excludes oil spill cleanup involving diking or ditching work which is to be reported separately in classification 0201.

0101-39 Pool or pond excavation Placement of pool or pond liners

Applies to contractors engaged in the excavation of pools or ponds. Work contemplated by this classification involves excavating or digging of earth to form the hole such as for a swimming pool or pond. Work contemplated by this classification includes excavation of rocks and boulders, removal of tree stumps, clearing or scraping land of vegetation, grubbing, piling or pushing of earth, earth excavation, cutting, filling or backfilling, etc. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as, but not limited to, shovels, bulldozers, backhoes and dump trucks. This classification includes the placement of plastic pool and pond liners provided it is not in connection with concrete work.

This classification excludes concrete construction which is to be reported separately in the applicable concrete construction classification.

0101-40 Mowing or chemical spraying of roadway median strips, roadsides, and/or power line right of ways

Applies to contractors engaged in mowing, grooming, picking up litter, and chemical spraying of roadway median strips and edges, roadsides, and power line right of ways. Work contemplated by this classification includes spraying chemicals to control weeds and unwanted vegetation, tall grass, brush, brambles and tree seedlings as part of a roadway, roadside or right of way maintenance contract. Equipment used by contractors subject to this classification includes, but is not limited to, a variety of equipment such as backhoes, tractors, push mowers, brush mowers, weed eaters, as well as hand tools such as machetes, sickles, and pruners.

This classification excludes mowing and/or grooming of roadway median strips, roadsides, and power line right of ways when performed by employees of cities, counties, state agencies, or other municipalities which is to be reported in the classification applicable to the type of municipality performing the work; forest, timber or range land contract work which is to be reported separately in the classification applicable to the work being performed; and the felling and removal of trees by chain saw which is to be reported separately in classification 5001.

Special note: Classification 0301, "landscape construction, " and classification 0308, "landscape maintenance, " are not to be assigned to mowing and/or grooming of roadway median strips, roadsides, and power line right of ways.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-501, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-501, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-051, § 296-17-501, filed 5/27/94, effective 7/1/94; 93-12-093, § 296-17-501, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-501, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-501, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-501, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-501, filed 11/30/79, effective 1/1/80; Order 76-36, § 296-17-501, filed 11/30/76; Order 75-38, § 296-17-501, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-501, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-501, filed 11/9/73, effective 1/1/74.]

WAC 296-17-503 Classification 0103.

0103-09 Drilling or blasting: N.O.C.

Applies to contractors engaged in drilling operations for others not covered by another classification (N.O.C.). Work contemplated by this classification includes, but is not limited to, well drilling for oil, gas or water; exploratory well drilling; and drilling of holes in rock for shot holes. Such drilling generally contemplates the digging of a hole using a rotating or pounding type tool. Equipment used by drilling contractors includes earth auger drills, jackhammers, drilling rigs, and bits which will vary in size depending upon the terrain or material to be drilled and the depth and size of holes to be drilled. This classification also includes blasting operations not covered by another classification (such as the blasting of rock in connection with highway, street or road construction).

This classification excludes drilling operations performed in connection with concrete or building construction which is to be reported separately in the construction classification applicable for the work being performed; drilling done in connection with all types of underground or surface mining and quarry operations which is to be reported separately in the applicable mining classification; and blasting performed as part of building demolition which is to be reported separately in classification 0506.

0103-10 Geophysical exploration: Seismic detection of the mechanical properties of the earth

Applies to establishments engaged in geophysical exploration, by seismic detection, of the earth's subsurface. Work contemplated by this classification involves a seismograph work crew consisting of a party chief, a permit person, a surveyor, drillers, shooters, observers and a computer analyst. The seismic method utilizes a dynamite blast that simulates a miniature earthquake. The recorder of the vibrations is the sensitive earthquake detector which records the intense vibrations on a rapidly moving tape. The data collected from the tapes and photographic records are interpreted and a contour

map of the rocks and their foundation to depths of several thousand feet is developed.

This classification excludes geophysical exploration without seismic detection which is to be reported separately in classification 1007.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-503, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-503, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-503, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-503, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-503, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-503, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-503, filed 11/9/73, effective 1/1/74.]

WAC 296-17-504 Classification 0104.

0104-12 Dredging, N.O.C.

Applies to contractors engaged in providing dredging services to others that are not covered by another classification (N.O.C.). Work contemplated by this classification includes cleaning, deepening or widening a body of water such as a harbor or other waterway. Scooping or suction machinery is generally employed in the dredging process to remove sand, clay, mud or other material from the body of water that is being dredged.

This classification excludes diving operations which are to be reported separately in classification 0202; underground mining operations which are to be reported separately in classification 1702; and dredging for the production of sand, gravel, or shale which is to be reported separately in classification 0112.

Special note: Dredging projects could occur on or adjacent to navigable waters (a harbor, river, canal) which is defined as those which form a continuous highway for interstate or international commerce. Workers who perform the work activities from a vessel could be subject to the Admiralty Law which recognizes such work crews and workers as a master or member of a vessel, and subject to federal law known as the Jones Act. Every person on board a vessel is deemed a seaman if connected with the operation while on navigable water. The term vessel has been interpreted by the courts to include any type of man-made floating object such as a floating derrick or dredge, or type of pontoon which is a flat bottom boat or portable float. Workers who perform the work activities from the shoreline or from adjacent areas such as an existing dock or bridge may or may not be subject to federal law covered under the U.S. Longshore and Harbor Workers Act. Usually, dredging projects involve a variety of types of work crews such as those working from a floating derrick or dredge, a pontoon, a shoreline dredge, workers who are on shore distributing the discharged material, as well as the maintenance and repair of the dredge and equipment. Care should be exercised prior to assignment of this classification as the workers could be subject to either or both of these acts. The criteria used in determining federal law and coverage is based on the most current federal court decisions and case law.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-504, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-504, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-504, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-504, filed 11/9/73, effective 1/1/74.]

WAC 296-17-505 Classification 0105.

0105-13 Fence erection or repair: All types, N.O.C.; parking meter installation; and placement of wire mesh on slopes for slope protection

Applies to contractors engaged in the erection and repair of all types of metal or wood fences not covered by another classification (N.O.C.). Work contemplated by this classification includes the use of a tractor with a propelled auger, or a mechanical or manual post hole digger. The poles or posts are set in the ground with small quantities of sand, gravel or concrete. Occasionally, a fence contractor may pour a concrete footing around the perimeter of the fence to be constructed. Work of this nature, when done in connection with a fence construction project, is included within the scope of this classification. This classification also includes the installation or removal of entire parking meter units, and the placement of wire mesh on slopes for slope protection.

This classification excludes contractors engaged in the erection or repair of brick, masonry or stone fences or planters which are to be reported separately in classification 0302; erection or repair of concrete fences or planters which are to be reported separately in classification 0217; and service or repair of parking meters which is to be reported separately in classification 0606.

Special note: It is common for contractors subject to this classification to sell kennel kits, fence repair parts and fencing materials. Sales of fencing materials by a fence contractor are included in classification 0105. Classifications 2009, 6309 or similar store classifications are not to be assigned to a contracting business.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-505, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-505, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-505, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-505, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-505, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-505, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-505, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-505, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-505, filed 11/9/73, effective 1/1/74.]

WAC 296-17-50601 Classification 0107.

0107-00 Utility line construction: Underground, N.O.C.

Applies to contractors engaged in underground utility line or cable construction that is not covered by another classification (N.O.C.). Work contemplated by this classification includes the installation and maintenance of underground television cable, power, and telephone line including main, extension, and outside service connection lines. Installation of these types of utilities usually occurs at a depth of 3' or less. This classification includes digging narrow trenches, laying pipe or conduit, laying line or cable, and filling or backfilling trenches. In some instances automatic equipment is used which in one operation opens the trench, lays the line and backfills. Equipment used by contractors subject to this classification includes backhoes, mechanical or manual trench diggers, automatic equipment and dump trucks.

This classification excludes land or road clearing and excavation which is to be reported separately in classification 0101; overhead television, power, or telephone lines including poles or towers which are to be reported separately in

classification 0509 or the applicable utility company classification; asphalt surfacing/resurfacing which is to be reported separately in classification 0210 or 0212; concrete construction which is to be reported separately in the applicable concrete construction classification(s); and construction specialty services including the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219.

0107-01 Pipelaying, N.O.C.

Applies to contractors engaged in underground pipelaying or pipeline construction not covered by another classification (N.O.C.). Work contemplated by this classification includes the installation and maintenance of underground gas, oil or water main construction, and other pipelines such as those extending cross country. Installation of these types of pipes usually occurs at a depth of approximately 3'. This classification includes digging narrow trenches, laying pipe, making connections, and filling or backfilling trenches. This classification includes machinery and equipment such as backhoes, mechanical or manual trench diggers, and dump trucks.

This classification excludes land or road clearing and excavation which is to be reported separately in classification 0101; construction of sewer lines and drainage systems, canals, ditches, underground tanks generally occurring at a depth greater than 3' which are to be reported separately in classification 0108; asphalt surfacing/resurfacing which is to be reported separately in classification 0210 or 0212 as applicable; concrete construction which is to be reported separately in the applicable concrete construction classification(s); and construction specialty services such as the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219.

0107-02 Invisible fence installation

Applies to specialist contractors engaged in the installation of invisible fences which are usually used to confine animals within a given area. Work contemplated by this classification includes identifying the land area to be fenced to keep animals in, digging a trench 1" wide by 2" deep along the field perimeter (usually the trench is made with a relatively small trench digger or modified rototiller), placing wire in the trench and burying it. The wire is connected to a transmitter box which plugs into a 110 volt electrical outlet. The intensity of the voltage is set by the transmitter and the animal wears a receiver collar. This classification includes related maintenance and repair at the customer's location.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50601, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-50601, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-50601, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-50601, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-50601, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-50601, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-50601, filed 11/30/79, effective 1/1/80.]

WAC 296-17-50602 Classification 0108.

0108-00 Ditches and canals, N.O.C.

Applies to contractors engaged in the construction of ditches and canals not covered by another classification (N.O.C.). A ditch or canal consists of a long trench dug in the ground that will remain uncovered to serve as an artificial waterway or artificially improved river such as for irrigation, drainage, or a boundary line. Work contemplated by this classification includes digging of main irrigation canals or drainage ditches and all laterals extending from the canal or ditch, installation of pipe, making connections as needed, and filling or backfilling as needed. Equipment used by contractors subject to this classification includes a variety of machinery and equipment such as power shovels, backhoes, bulldozers, dump trucks, and mechanical or hand tool trench diggers.

This classification excludes asphalt surfacing/resurfacing which is to be reported separately in classification 0210 or 0212, and concrete construction which is to be reported separately in the applicable concrete construction classification(s).

0108-01 Sewer construction; septic tank installation

Applies to contractors engaged in the construction or repair of new or existing sewer lines and systems. This includes, but is not limited to, sewers, cesspools, drainpools, storm drains, and septic tanks including the drainfield construction. Work contemplated by this classification includes the installation and maintenance of all types of storm, sanitary or sewage lines and systems. Installation of these types of pipelines and systems occur entirely, or in part, at a depth greater than 3'. This classification includes such activities as excavation, trench digging, leveling trench with fill material such as sand or gravel, filling or backfilling, installation of force main type sewage work, the installation of storm sewer lines including the outfall construction of drain concrete boxes, catch basins, manholes, handling and laying of pipe (regardless of the size of pipe or depth below the ground), making connections, etc. Equipment used by contractors subject to this classification includes a variety of machinery and equipment such as power shovels, backhoes, bulldozers, dump trucks, and mechanical or manual trench diggers.

This classification excludes side sewer hookups (street to house) when performed by a plumbing contractor as part of a plumbing contract which is to be reported separately in classification 0306; and sewer pipe cleaning including services engaged in line cleaning and unplugging of waste lines which is to be reported separately in classification 0306.

0108-02 Tanks, N.O.C. - underground: Installation, repair, or removal

Applies to contractors engaged in the installation, repair or removal of underground tanks not covered by another classification (N.O.C.) such as those used to store gas or oil. Activities include excavating or digging of holes, placement or removal of tank, and filling or backfilling. This classification makes no distinction as to the size of tank being placed or removed. Usually, the actual lifting into or out of the ground occurs with the use of a power shovel, front end loader or backhoe. Equipment used by contractors subject to this classification includes a variety of earth moving equipment such as power shovels, front end loaders, backhoes, bulldozers, and dump trucks.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50602, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-50602, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-50602, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-50602, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-50602, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-50602, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-50602, filed 11/29/82, effective 1/1/83; 80-17-016 (Order 80-23), § 296-17-50602, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-50602, filed 11/30/79, effective 1/1/80.]

WAC 296-17-50603 Classification 0112.

0112-00 Commercial production of sand, gravel, clay and stone products

Applies to establishments engaged in the production of sand, gravel, clay and stone products. Material may be excavated in an open or surface type pit at the production site, or from a mine or quarry operation. Sand, gravel and stone is washed, crushed, sorted, graded and screened. Sand or gravel in its natural state usually requires only screening with the larger stones being removed. The larger stones are crushed and rescreened. Clay is screened and graded. Refined products are stored in bins, hoppers, piles or yards prior to delivery by truck or rail to customers. This classification includes dealers who stockpile or store products in a yard type of environment prior to delivery to the customers when done in connection with the production of such products. Equipment includes, but is not limited to, scrapers, shovels, front end loaders, trucks, conveyors, jaw crushers, gyrators, roll crushers, and shaking tables.

This classification excludes establishments engaged in selling custom soil mixes, bark, decorative rock, sand, or gravel purchased from others which are to be reported separately in classification 1103.

Special note: Classifications 0112 and 1103 are not to be assigned to the same business unless all the conditions of the general reporting rule covering the operation of a secondary business have been met.

0112-01 Humus or peat digging

Applies to establishments engaged in the digging or stripping of humus or peat. Humus is a brown or black organic substance consisting of decayed vegetable matter that provides nutrients for plants and increases the water retention of soil. Peat is a partially carbonized vegetable matter found in bogs and used as fertilizer and fuel. Work contemplated by this classification involves stripping material from the surface or bogs with mechanical equipment such as, but not limited to, power shovels, scrapers, drag lines, clamshell diggers or cranes, and hydraulic dredges. The material is conveyed from the pit or bog to hoppers by trucks or belt conveyors. At times it is necessary to grade, screen and dry the material prior to storage or delivery to customers. This classification includes dealers who stockpile or store material in a yard type of environment prior to delivery to customers when done in connection with the digging or stripping of such products.

Special note: Classifications 0112 and 1103 are not to be assigned to the same business unless all of the conditions of the general reporting rule covering the operation of a secondary business have been met.

0112-02 Pit, crusher and bunker operations in connection with road, street and highway construction

Applies to establishments engaged in pit, crusher and bunker operations in connection with highway, street or roadway construction projects. Generally, this type of operation is located in close proximity to the project site and is only set up for the duration of the project. Work contemplated by this classification includes excavating open or surface pits, scraping or stripping the surface, crushing, and bunker (storage) of material. Products extracted from the pit or surface include boulders, stone, rock, gravel, aggregate, sand, dirt or clay. These products can be used directly without any further refinements or could be washed, sorted, crushed and/or screened. Products are stored in bunkers or piles until needed. These products are used in a variety of ways as part of the roadway project such as, but not limited to, making preliminary roads into an area, filling in low or uneven areas, use as natural barriers, and bringing the roadbed and surrounding areas to grade. Equipment includes, but is not limited to, power shovels, scrapers, bulldozers, front end loaders and other earth moving equipment, trucks, conveyors, jaw crushers, gyrators, roll crushers, shaking tables, etc.

0112-03 Sand, gravel, or shale: Digging, N.O.C.

Applies to establishments engaged in the digging or dredging of sand, gravel or shale that is not covered by another classification (N.O.C.). The material is excavated from surface pits with mechanical equipment such as power shovels, drag lines, clamshell diggers or cranes, or obtained from nonnavigable waters by means of hydraulic dredges, clamshell dredges, etc. The material is conveyed from the bank, pit or dredge to hoppers by trucks, belt conveyors, narrow gauge railroads or pipelines. It is then washed, graded, screened and stored in bins, hoppers, or piles prior to delivery by truck or rail to customers. Sand or gravel in its natural state usually requires only screening with the larger stones being removed. In some instances, the larger stones may be crushed and rescreened which is included in this classification. This classification includes dealers who stockpile or store material in a yard type of environment prior to delivery to customers when done in connection with the digging or stripping of such products.

This classification excludes underground mining operations which are to be reported separately in classification 1702.

Special note: Classifications 0112 and 1103 are not to be assigned to the same account unless all the conditions of the general reporting rule covering the operation of a secondary business have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50603, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50603, filed 5/31/96, effective 7/1/96.]

WAC 296-17-508 Classification 0201.

0201-01 Bridge, trestle, overhead crossing and viaduct: Construction, maintenance and repair

Applies to contractors engaged in the construction, maintenance or repair of bridges, trestles, overhead crossings and viaducts including the foundations and approaches. These types of structures provide a series of spans or arches,

or a type of vertical and horizontal framework for a road or railroad passage over an obstacle such as a waterway, wide valley, other roads, or railroads. Work contemplated by this classification includes the construction of approaches, abutments, foundation supports, framework, and includes all concrete, iron or steel, timber, or carpentry work to completion of the project. The approach is the area of ground or roadway built up just before entering onto a structure such as a bridge or trestle. The abutments are the reinforced foundation supports at the end of the approach which will bear much of the weight for the structure. The erection of the structure usually begins at both ends of the approaches and abutments and gradually continues toward the center of the structure. This classification includes activities such as, but not limited to, the placement and securing of piles, beams and members by way of boom or crane, forming columns, piers and supports, tying reinforcing steel, set-up and tear down of forms, pouring and finishing of concrete, installing precast deck supports, decking slabs and nonstructural members, constructing the retaining walls, erecting iron railings, and the installation of suspension cables and cable clamps. This classification also includes shaft sinking, pile driving, caisson and cofferdam work as it is considered an integral part of the structure's foundation and support.

This classification excludes asphalt surfacing/resurfacing on roadways which is to be reported separately in classification 0210 and concrete paving which is to be reported separately in classification 0214.

Special note: Care should be exercised prior to assignment of this classification as the workers could be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act. A detailed description of these acts can be found in classifications 0104 or 0202.

0201-04 Breakwater, jetty, levee: Construction, maintenance and repair

Applies to contractors engaged in the construction, maintenance or repair of a jetty, levee or breakwater. These types of barriers or embankments are very similar to a dike, but involve substantially more construction in that they usually begin away from the water and extend into a body of water and are sometimes used as protection for a harbor to prevent adverse currents from interfering with shipping. Work contemplated by this classification involves building, protecting and/or filling in an embankment or barrier of a river, harbor or other body of water. The predominant activity involves earth moving or placing of fill or other material. This classification includes, but is not limited to, clearing of land, excavation, filling, and grading and involves earth moving equipment such as, but not limited to, drag lines, graders, scrapers, bulldozers, and dump trucks. Materials include, but are not limited to, dirt, sand, stones or boulders, concrete piles, timber or heavy timber cribbing filled with stones or boulders. Often, the barrier or embankment being built is seeded or paved in part with asphalt, concrete, soil, or cement to assist in strengthening the structure.

This classification excludes pile driving operations in connection with jetty, levee and breakwater operations which are to be reported separately in classification 0202, and asphalt surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed.

Special note: Care should be exercised prior to assignment of this classification as the workers could be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act. A detailed description of these acts can be found in classifications 0104 or 0202.

0201-05 Bulkhead retaining walls: Construction, maintenance and repair, riprapping - all water hazard

Applies to contractors engaged in the construction, maintenance or repair of a bulkhead. A bulkhead is a wall or embankment constructed to protect against potential problems such as earth slides, erosion of banks alongside water, or excessive increases in the water level. Work contemplated by this classification involves building, protecting and/or filling in a wall or embankment of a river, harbor or other body of water, or other areas of land. The predominant activity involves earth moving or placing of fill or other material. This classification includes, but is not limited to, clearing of land, excavation, filling, and grading. Equipment used by contractors subject to this classification includes, but is not limited to, drag lines, graders, scrapers, bulldozers, and dump trucks. Materials include, but are not limited to, dirt, sand, stones, boulders, concrete piles, timber or heavy timber cribbing filled with stones or boulders. Often, the wall or embankment being built, or if it already exists, is seeded or paved in part with asphalt, concrete, cement, or soil to assist in strengthening the structure. This classification includes riprap work which is a loose assemblage of broken stones erected in water or on soft ground. Such stone serves as a fill-in material to assist with the building of a dike, levee, or bulkhead.

This classification excludes pile driving operations in connection with bulkhead construction operations which is to be reported separately in classification 0202, and asphalt surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed.

Special note: Care should be exercised prior to assignment of this classification as the workers could be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act. A detailed description of these acts can be found in classifications 0104 or 0202.

0201-06 Concrete culverts; aluminum, steel, or other types of culverts over 12 feet

Applies to contractors engaged in the construction or placement of concrete culverts or other types of culverts greater than twelve feet in diameter. A culvert is a sewer or drain running under a road, embankment, or structure such as a bridge. Culverts can be made of material such as, but not limited to, concrete, aluminum, and galvanized steel. Their primary purpose is to channel excess water away from the road, embankment, or structure to assist in preventing water damage or flooding. Work contemplated by this classification includes excavation, laying of sand or gravel, placement of culverts, and filling in the site.

0201-08 Tunnels and approaches

Applies to contractors engaged in the construction of tunnels and approaches including the lining, cofferdam work,

shaft sinking, and well digging with caissons. A tunnel is a passage through or under a barrier to be used as a roadway, railway or pedestrian walkway. The approach is the area of ground built up before the entrance of a tunnel or similar type of structure. Work contemplated by this classification includes, but is not limited to, the construction of approaches, shaft sinking, caisson and cofferdam work, boring, the framework or lining, and all concrete, iron or steel, timber, and carpentry work to completion of the project. In some instances, the initial phase of a tunnel project may require that the approaches and abutments be put in place. This may involve extensive excavation and fill work depending on how uneven the terrain is with the proposed tunnel entrances. The abutments are the reinforced foundation supports at the end of the approach and will bear much of the weight at the tunnel entrances. Most often, the abutments will consist of metal beams or concrete with reinforced steel, that are placed vertically, horizontally or at an angle into the ground. The boring of the tunnel may include the removal of earth, rock and water with mechanical equipment, drilling and boring machines, rock drills and chippers, explosives, well drilling with caissons, and the need for pumps and drains piped to the outside of the bore. Occasionally, a cofferdam is erected which is a temporary structure from which water can be pumped or sucked to provide a dry work area during construction of the structure. Once the structural support is complete, the cofferdam is taken apart and removed. As the bore progresses steel I-beams are placed and horizontal beams or solid bar stock are bolted or welded for support. Shielding the bore between the I-beams requires bolting or welding steel plates to the beams. This is followed by filling the gaps between the face of the bore and the shielding with sand or concrete grout. Some tunnels will then be lined with concrete, steel or tile, and lighting, ventilation and drains may be installed.

This classification excludes underground mining operations which are to be reported separately in classification 1702, and asphalt surfacing/resurfacing or concrete paving which is to be reported separately in the classification applicable to the work being performed.

0201-09 Diking, N.O.C.

Applies to contractors engaged in the construction of dikes not covered by another classification (N.O.C.). A dike is a type of protective barrier or embankment which keeps a body of water such as a river in its proper channel and prevents the erosion of banks. Work contemplated by this classification involves building up and/or protecting the em-bankment. This classification includes, but is not limited to, earth moving work, assemblage of loose stone or rock, placement of sandbags or concrete piles, fill dirt or broken pieces of concrete, or building of crib work which may be filled in with stone or other types of fill. This classification also applies to diking or ditching work in connection with oil spill clean-up such as alongside a river bank or other shoreline.

This classification excludes pile driving operations which are to be reported separately in classification 0202.

Special note: Care should be exercised prior to assignment of this classification as the workers could be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act. A detailed description of these acts can be found in classifications 0104 or 0202.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-508, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-508, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-508, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-508, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-508, filed 11/9/73, effective 1/1/74.]

WAC 296-17-509 Classification 0202.

0202-02 Pile driving - wood or concrete piling construction

Applies to contractors engaged in pile driving and piling construction. Pile driving involves long sturdy posts or columns of timber, steel, or concrete being driven into the earth as a foundation or support for a structure such as a building, pier or wharf. This type of activity usually occurs when a portion of the structure is going to be under water, in mud, at a site where the ground is soft or unstable, or when the structure is expected to be of extraordinary weight. Work contemplated by this classification includes driving wood or steel beams, driving concrete columns, shaft sinking or caisson work, stacking of concrete piles, erection of a cofferdam, and includes all cross beaming, decking, and similar carpentry incidental to, and connected with, pile driving operations as part of the foundation construction project. Shaft sinking is removal of earth from a hole with a relatively small diameter and usually at a considerable depth. The cofferdam is a temporary structure from which water can be pumped or sucked to provide a dry work area during construction of the foundation or substructure. Once the foundation support is complete, the cofferdam is taken apart and removed.

This classification excludes diving operations or activities which are to be reported separately in classification 0202-04.

Special note: Pile driving projects could occur on or adjacent to navigable waters (harbors, rivers, canals) which is defined as those which form a continuous highway for interstate or international commerce. Workers who perform the work activities from on board a vessel could be subject to the Admiralty Law which recognizes such work crews and workers as a master or member of a vessel, and subject to federal law known as the Jones Act. Every person on board a vessel is deemed a seaman if connected with the operation while on navigable water. The term vessel has been interpreted by the courts to include any type of man-made floating object such as a floating derrick, pile driver or dredge, a barge, or a pontoon (which is a flat bottom boat) or portable float. Workers who perform the work activities from the shoreline or from adjacent areas such as an existing dock, pier, or bridge may or may not be subject to federal law covered under the U.S. Longshore and Harbor Workers Act. Usually, pile driving projects involve a variety of types of work crews such as those working from a floating derrick or pile driver, a barge, a pontoon, a shoreline pile crew, workers inside the cofferdam, as well as the maintenance and repair of the construction material or equipment. Care should be exercised prior to assignment of this classification as the workers could be subject to either or both of these acts. The criteria used in determining federal law and coverage is based on the most current federal court decisions and case law.

0202-03 Wharf, pier, dock and marine railway: Construction, maintenance and repair

Applies to contractors engaged in the construction, maintenance or repair of piers, wharves, docks and marine railways. A pier or wharf is a platform extending from a shore over water and supported by piles or pillars. A dock is the area between two piers or alongside a pier or wharf. These types of platforms are for vessels to tie up and provide an area for loading, unloading, or repairing vessels. Most often, the construction of such platforms will include the foundation or substructure being under water or mud, and the remainder of the platform being exposed above the water or mud. Work contemplated by this classification includes, but is not limited to, construction of the foundation or substructure which consists of shaft sinking, pile driving, stacking of piles and/or erection of a cofferdam, and includes all concrete, steel or carpentry work after the foundation or substructure is built to completion of the project. Shaft sinking involves the removal of earth from a hole with a relatively small diameter and usually at a considerable depth. Pile driving involves long sturdy posts or columns of timber, steel, or concrete being driven into the earth as a foundation or support for the structure. The cofferdam is a temporary structure from which water can be pumped or sucked to provide a dry work area during construction of the foundation or substructure. Once the foundation support is complete, the cofferdam is taken apart and removed. This classification also includes caisson work as part of the construction for the foundation or substructure support.

This classification excludes diving operations or activities which are to be reported separately in classification 0202-04.

Special note: The construction of piers, wharves, docks and marine railways could occur on or adjacent to navigable waters (harbors, rivers, canals) which is defined as those which form a continuous highway for interstate or international commerce. Workers who perform the work activities from on board a vessel could be subject to the Admiralty Law which recognizes such work crews and workers as a master or member of a vessel, and subject to federal law known as the Jones Act. Every person on board a vessel is deemed a seaman if connected with the operation while on navigable water. The term vessel has been interpreted by the courts to include any type of man-made floating object such as a floating derrick, floating barge, a pontoon (which is a flat bottom boat) or portable float. Workers who perform the work activities from the shoreline or from adjacent areas such as an existing dock, pier, or bridge may or may not be subject to federal law covered under the U.S. Longshore and Harbor Workers Act. Usually, these types of projects involve a variety of work crews such as those working from a floating derrick or barge, a pontoon, a shoreline pile crew, workers inside the cofferdam, as well as the maintenance and repair of the construction material or equipment. Care should be exercised prior to assignment of this classification as the workers could be subject to either or both of these acts. The criteria used in determining federal law and coverage is based on the most current federal court decisions and case law.

0202-04 Diving operations and subaqueous work, N.O.C.

Applies to establishments engaged in diving operations not covered by another classification (N.O.C.). Diving operations such as underwater diving, skin diving or scuba diving are performed in numerous types of uncontrolled environments such as the ocean, harbors, bays, dams, lakes, as well as controlled environments such as swimming pools or aquarium tanks. Work contemplated by this classification includes, but is not limited to, marine salvage and wreckage, underwater mining and sweeping, underwater construction or demolition, installation, repair and/or inspection of wharves, piers, and docks, inspection of ships, barges, and other vessels, subaqueous harvesting of geoduck, sea cucumbers, or similar marine life, underwater exploration, as well as diving instruction. Classification 0202 includes all diving activities with the following exception: Diving instructors who provide instructional lessons in a controlled environment such as a swimming pool may be reported separately in classification 6209 provided accurate time records are maintained for the instructional lesson hours. Failure to maintain accurate time records will result in the hours in question being assigned to classification 0202 without a division of hours between the two classifications.

Special note: Many diving operations and activities occur on or adjacent to navigable waters (a harbor, river, canal, dam, lake) which is defined as those which form a continuous highway for interstate or international commerce. Workers who perform diving activities (to include divers, deck hands, or "diving tenders" who are support personnel such as line handlers and pump persons) from on board a vessel could be subject to the Admiralty Law which recognizes such work crews and workers as a master or member of a vessel, and subject to federal law known as the Jones Act. Every person on board a vessel is deemed a seaman if connected with the operation while on navigable water. The term vessel has been interpreted by the courts to include any type of man-made floating object such as a floating derrick or dredge, a boat or ship, a barge, or type of pontoon (which is a flat bottom boat) or portable float. Workers who perform diving activities (to include divers, deck hands, or "diving tenders" who are support personnel such as line handlers and pump persons) from the shoreline or from adjacent areas such as an existing dock, pier or bridge may or may not be subject to federal law covered under the U.S. Longshore and Harbor Workers Act. Care should be exercised prior to assignment of this classification as the workers could be subject to either or both of these acts. The criteria used in determining federal law and coverage is based on the most current federal court decisions and case law.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-509, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-509, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-509, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-509, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-509, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-509, filed 11/30/83, effective 1/1/84; Order 76-36, § 296-17-509, filed 11/30/76; Order 73-22, § 296-17-509, filed 11/9/73, effective 1/1/74.]

WAC 296-17-50908 Classification 0210.

0210-00 Asphalt paving or surfacing: Highway, street or roadway

Applies to contractors engaged in forms of asphalt paving or surfacing, resurfacing, scraping, sawing, cutting or patching operations performed on or in connection with new or existing highway, street, or roadway projects including approaches and bridges. The process begins after the roadbed or roadside grade has already been established and the subsurface or sub base has been prepared. Work contemplated by this classification is limited to laying crushed stone, placement of expansion joints, application of oil or other adhesive bonding materials, and the surface spreading and rolling of crushed aggregate. Equipment used by a contractor subject to this classification includes, but is not limited to, scrapers, graders, rollers, paving machinery, oil trucks and dump trucks.

This classification excludes preliminary roadbed or roadside construction such as clearing of right of ways, establishing grades, subsurfaces or sub bases which is to be reported separately in classification 0101; asphalt surfacing/resurfacing not in connection with highway, street or roadway projects which is to be reported separately in classification 0212; construction specialty services such as the installation of guardrails, lighting standards and striping which is to be reported separately in classification 0219; and concrete construction which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50908, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50908, filed 5/31/96, effective 7/1/96.]

WAC 296-17-50910 Classification 0212.

0212-00 Asphalt paving or surfacing, N.O.C.

Applies to contractors engaged in asphalt paving or surfacing not in connection with highway, street, or roadway projects not covered by another classification (N.O.C.). This classification covers all forms of asphalt paving or surfacing, resurfacing, scraping, sawing, cutting or patching operations not in connection with highway, street, or roadway projects such as, but not limited to, parking lots, airport runways and landing strips, driveways, walking paths, bicycle trails, tennis courts, playgrounds, and golf cart paths. The process begins after the land grade has already been established and the subsurface or sub base has been prepared. Work contemplated by this classification includes the laying of crushed stone, placement of expansion joints, application of oil or other adhesive bonding materials, and the surface spreading and rolling of crushed aggregate. Equipment used by a contractor subject to this classification includes, but is not limited to, scrapers, graders, rollers, paving machinery, oil trucks and dump trucks. This classification also applies to the application of various types of cushion surfaces for playgrounds.

This classification excludes the preliminary clearing of land, establishing grades, subsurfaces or sub bases which are to be reported separately in classification 0101; asphalt surfacing/resurfacing in connection with highway, street, or roadway projects which is to be reported separately in classification 0210; construction specialty services such as the installation of guardrails, lighting standards and striping which are to be reported separately in classification 0219; and concrete construction which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50910, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50910, filed 5/31/96, effective 7/1/96.]

WAC 296-17-50912 Classification 0214.

0214-00 Concrete paving and repaving: Highways, streets or roadways

Applies to contractors engaged in concrete paving and repaving of highways, streets, or roadways including approaches and bridges. This classification covers all forms of concrete paving, repaving, scraping, sawing, drilling or cutting operations in connection with a highway, street or roadway project, including the construction of curbs, gutters, sidewalks, median walls and retaining walls when performed as part of the roadway paving or repaving project. The process begins after the roadbed or roadside grade has already been established and the subsurface or sub base has been prepared. Work contemplated by this classification includes the laying of crushed stone, placement of reinforcing steel or expansion joints, grading or rolling stone base, set-up and tear down of forms, pouring, and finishing of concrete. Equipment used by a contractor subject to this classification includes, but is not limited to, scrapers, graders, rollers, paving machinery, water trucks and dump trucks.

This classification excludes preliminary roadbed or roadside construction such as clearing right of ways, establishing grades, subsurfaces or sub bases which are to be reported separately in classification 0101; asphalt paving, surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed; concrete flatwork not in connection with highway, street, or roadway projects which is to be reported separately in classification 0217; and construction specialty services such as the installation of guardrails, lighting standards and striping which are to be reported separately in classification 0219.

0214-01 Concrete curbs, gutters, and sidewalks: Construction and repair in connection with highways, streets or roadways

Applies to contractors engaged in the construction or repair of concrete curbs, gutters, and sidewalks in connection with highways, streets, or roadways including approaches and bridges. The process begins after the roadbed or roadside grade has already been established and the subsurface or sub base has been prepared. Work contemplated by this classification includes the set-up and tear down of forms, placement of reinforcing steel or expansion joints, and the pouring and finishing of concrete.

This classification excludes preliminary roadbed or roadside construction such as clearing right of ways, establishing grades, subsurfaces or sub bases which are to be reported separately in classification 0101; asphalt paving, surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed; concrete flatwork not in connection with highway, street, or roadway projects which is to be reported separately in classification 0217; and construction specialty services such as the installation of guardrails, lighting standards and striping which are to be reported separately in classification 0219.

0214-02 Concrete median walls and retaining walls: Construction and repair in connection with highways, streets or roadways

Applies to contractors engaged in the construction or repair of concrete median (divider) walls and retaining walls in connection with highway, street, or roadway projects including approaches and overpasses. The process begins after the roadbed or roadside grade has already been established and the subsurface or sub base has been prepared. Work contemplated by this classification includes the set-up and tear down of forms, placement of reinforcing steel or expansion joints, and the pouring and finishing of concrete to form median or divider walls, median strips, or retaining walls alongside the roadway.

This classification excludes the preliminary land excavation of a retaining wall area, as well as roadbed or roadside construction such as clearing right of ways, establishing grades, subsurfaces or sub bases which are to be reported separately in classification 0101; asphalt paving, surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed; concrete flatwork not in connection with highway, street, or roadway projects which is to be reported separately in classification 0217; and construction specialty services such as the installation of guardrails, lighting standards and striping which are to be reported separately in classification 0219.

0214-03 Concrete sawing, drilling, and cutting: In connection with highways, streets or roadways

Applies to contractors engaged in concrete sawing, drilling and cutting in connection with concrete highway, street, or roadway projects including concrete curbs, gutters, sidewalks, median walls and retaining walls. These activities occur on new or existing roadway and related projects such as, but not limited to, the sawing, cutting and drilling for manholes, drainage grates, poles or posts, exposing underground utility lines and systems, and repairing defective areas.

This classification excludes preliminary roadbed or roadside construction such as clearing right of ways, establishing grades, subsurfaces or sub bases which is to be reported separately in classification 0101; asphalt paving, or surfacing/resurfacing which is to be reported separately in the classification applicable to the work being performed; concrete flatwork not in connection with highway, street, or roadway projects which is to be reported separately in classification 0217; and construction specialty services such as the installation of guardrails, lighting standards and striping which are to be reported separately in classification 0219.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50912, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50912, filed 5/31/96, effective 7/1/96.]

WAC 296-17-50915 Classification 0217.

0217-00 Concrete flatwork - construction and/or repair: N.O.C.

Applies to contractors engaged in the construction and/or repair of concrete flatwork not covered by another classification (N.O.C.) such as, but not limited to, walkways, pathways, fences, and curbing. Work in this classification includes the set-up and tear down of forms, placement of reinforcing steel and wire mesh, and the pouring and finishing of concrete.

This classification excludes land clearing and excavation which is to be reported separately in classification 0101; concrete work performed on or in connection with highway, street, or roadway projects including sidewalks, curbs, gutters, median or retaining walls, sawing, drilling, or cutting operations which is to be reported separately in classification 0214; and concrete work contained within a concrete, masonry, iron or steel frame building or structure such as the foundation, floor slabs, precast or poured in place bearing floors or wall panels, columns, pillars, metal erection or any other portion of the building or structure itself which is to be reported separately in classification 0518.

0217-01 Concrete foundation and flatwork construction and repair: Wood structural buildings

Applies to contractors engaged in the construction and/or repair of concrete foundation and flatwork for wood structural buildings not to exceed three stories in height. This classification includes the set-up and tear down of forms, placement of reinforcing steel and wire mesh, pouring, and finishing of concrete footings, stem walls, floor pads, cellar or basement floors, garage floors, swimming pools and ponds. This includes incidental concrete work such as walkways or driveways when performed by a foundation contractor.

This classification excludes land clearing and excavation which is to be reported separately in classification 0101; concrete work performed on or in connection with highway, street, or roadway projects including sidewalks, curbs, gutters, median or retaining walls, sawing, drilling, or cutting operations as part of the roadway which is to be reported separately in classification 0214; and concrete work contained within a concrete, masonry, iron or steel frame building or structure such as the foundation, floor slabs, precast or poured in place bearing floors or wall panels, columns, pillars, metal erection or any other portion of the building or structure itself which is to be reported separately in classification 0518.

0217-02 Concrete sawing, drilling and cutting, N.O.C.

Applies to contractors engaged in concrete sawing, drilling and cutting not covered by another classification (N.O.C.), including repairs. Work contemplated by this classification includes concrete sawing, drilling and cutting operations in connection with wood frame and nonwood frame buildings or structures, including flatwork such as, but not limited to, foundations, walkways, driveways, patios and swimming pools which may or may not be part of the building or structure. Activities include, but are not limited to, the sawing, cutting and drilling for ventilation boxes in the footings or stem walls, cut outs for windows or door ways, preparation to mount brackets for stairways or interior bearing walls, cutting interior walls as part of a building renovation project, cut outs for electrical and switch boxes, and repairing defective areas.

This classification excludes concrete sawing, drilling, and cutting operations performed on or in connection with highway, street, or roadway projects including sidewalks,

curbs, gutters, median or retaining walls as part of roadways which are to be reported separately in classification 0214; bridge construction which is to be reported separately in classification 0201; and new dam construction which is to be reported separately in classification 0701.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50915, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50915, filed 5/31/96, effective 7/1/96.]

WAC 296-17-50917 Classification 0219.

0219-00 Construction specialty services, N.O.C.

Applies to contractors engaged in the installation or removal of highway, street, or roadway lighting, signs, guardrails, roadside reflectors, lane buttons or turtles, or lane markers not covered by another classification (N.O.C.). Usually, these activities occur as finishing touches after new or existing roadways are paved or surfaced. Roadway lighting includes traffic signal lights, and halogen or mercury vapor lights mounted to metal standards erected alongside the roadway. Signs (such as speed limit, road condition, city and town mile destination) are mounted on overpasses or on wood or metal poles erected alongside the roadway. Guardrails include metal barriers mounted on wood or metal poles driven into the roadside shoulder. Lane markers, lane buttons or turtles consist of small reflectors, or chips of plastic or concrete attached to the road with an adhesive bonding material. This classification includes the related hook-up of power to the light standard.

This classification excludes the installation of power lines that feed into power poles which is to be reported separately in the applicable construction classification for the work being performed.

Special note: This classification excludes exterior sign erection, repair, or removal not in connection with displaying highway, street, or roadway information or conditions even though such signs may be erected or placed alongside roadways (such as advertisement bill boards, business, or personal property signs) which is to be reported separately in classification 0403.

0219-01 Construction specialty services

Applies to contractors engaged in specialty services such as the painting or striping of highways, streets, roadways, or parking lots not covered by another classification (N.O.C.). This classification includes painting, striping, numbering, or lettering highways, streets, roadways, parking lots, parking garages, airport runways, taxi ways, curbs, roadway dividers or median strips, and special traffic areas such as fire, bus, handicap, and no parking zones. The paint or other material used for these markings is usually applied to the surface using a mechanical device, either self-propelled or towed by a truck or other motor vehicle. In some instances, the paint will be applied manually with brush or roller which is included in this classification. This classification includes the application of asphalt sealants to roadways or parking lots. This classification also includes concrete barrier installation, in connection with road construction, by a concrete barrier rental business or by a flagging contractor who also supplies the concrete barriers. This includes the flaggers who are necessary during the installation of the barriers as well as any flaggers the company supplies to the road construction project itself.

This classification excludes the interior painting of buildings which is to be reported separately in classification 0521, the exterior painting of buildings or structures which is to be reported separately in classification 0504; the rental of the concrete barriers and other flagging equipment which is to be reported separately in classification 6409; and flaggers who are not employed by a concrete barrier rental business or by a flagging contractor who also supplies the concrete barriers which are to be reported separately in classification 7116 or 7118 as appropriate.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-50917, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-50917, filed 5/31/96, effective 7/1/96.]

WAC 296-17-510 Classification 0301.

0301-04 Lawn type sprinkler systems: Installation, service or repair

Applies to contractors engaged in the installation, service or repair of lawn type sprinkler systems. This type of activity is performed by landscaping contractors, plumbing contractors, and irrigation specialist contractors. Generally, lawn type sprinkler systems are installed at private residences or commercial businesses. The process involves identifying the area of land to be covered to determine the size and amount of pipe and sprinkler heads needed for the job. The installation involves cutting a trench in the ground (12" to 18" deep and wide enough to accommodate the pipe) with a vibrating plow or pipe pulling machine. Next, pipe is laid in the trench, glued, or otherwise joined, heads and canisters are installed, and the timer is hooked up. The system is checked for leaks, needed adjustments are made, and the pipe and heads are buried.

This classification excludes open canal type irrigation systems which are to be reported separately in classification 0108; the installation, service or repair of above or below ground agricultural/irrigation systems which is to be reported separately in classification 0301-06; and maintenance and cleaning of lawn sprinkler system pipes and heads done in connection with a landscape maintenance contract which is to be reported separately in classification 0308.

0301-06 Agricultural sprinkler/irrigation systems, N.O.C.: Installation, service or repair

Applies to contractors engaged in the installation, service or repair of above or below ground agricultural sprinkler and irrigation systems not covered by another classification (N.O.C.). The more common types of systems include below ground, fixed or movable, and wheel or impulse. Generally, these types differ from lawn sprinkler systems in that the size of pipes and pumps installed are much larger to produce the water pressure needed to irrigate large areas of land. Installation of below ground systems involves the use of trenching equipment to dig trenches, which are usually more than two feet deep to lay pipe. The above ground systems are laid out and assembled based on the need of the land area.

This classification excludes open canal type irrigation systems which are to be reported separately in classification 0108, and the installation, service or repair of lawn type

sprinkler systems which is to be reported separately in classification 0301-04.

0301-08 Landscape construction operations, N.O.C.

Applies to landscape contractors engaged in new landscape construction or renovation projects not covered by another classification (N.O.C.). This classification includes producing a preliminary drawing of the landscape or renovation project, preparing the ground (which may include tilling and spreading top soils or custom mix soils), installing sprinkler systems, planting trees, plants or shrubs, planting or replanting grass from seed or sod, installing ground cover material or plastic to retard weeds, placement of concrete borders, and the incidental construction of rockery, fences, ponds, paths, walkways, arbors, trellis and gazebos when performed by employees of a landscape contractor as part of a landscape contract. Such activities conducted separately from a landscape contract and not part of the landscape project are to be reported separately in the classification applicable to the work being performed. Equipment used by contractors subject to this classification includes, but is not limited to, tractors with till attachments, small front end loaders, trenchers, mowers, fertilizer spreaders, wheelbarrows, and electric power tools.

This classification excludes all grading, clearing, or contouring of land which is to be reported separately in classification 0101; bulkheads not adjacent to water, or similar structures built of rock, which are to be reported separately in classification 0302; and lawn care maintenance or chemical spraying or fumigating which is to be reported separately in classification 0308.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-510, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-510, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-510, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-510, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-510, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-510, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-510, filed 11/30/79, effective 1/1/80; Order 76-36, § 296-17-510, filed 11/30/76; Order 73-22, § 296-17-510, filed 11/9/73, effective 1/1/74.]

WAC 296-17-511 Classification 0302.

0302-01 Brick, block, rock and slate work, N.O.C.

Applies to contractors engaged in interior or exterior brick, block, rock and slate work not covered by another classification (N.O.C.). Included in this classification are projects related to sidewalks, walkways, driveways, patios, steps, pads for wood stoves, flower or planting boxes, fences, inlay for fireplaces, countertops, buffets, full or partial interior or exterior walls, and includes the construction of entire buildings or structures with brick, block or rock products. Work contemplated by this classification includes, but is not limited to, laying and cutting and/or polishing brick, block, rock, slate, marble, granite, and adhering with mortar or tuck pointing (filling and/or finishing brickwork or stonework joints with cement or mortar).

This classification excludes plastering, stuccoing or lathing work which is to be reported separately in classification 0303; tile setting which is to be reported separately in classification 0502; and concrete work which is to be reported separately in the classification applicable to the work being performed.

0302-02 Masonry, N.O.C.

Applies to contractors engaged in interior or exterior masonry work not covered by another classification (N.O.C.), including chimney and fireplace construction. This classification includes lining or relining fireplace walls or boxes, chimneys, blast furnaces, ovens, firepits, and setting tombstones. Work contemplated by this classification includes, but is not limited to, laying and cutting brick or stone, and tuck pointing (filling and/or finishing brickwork or stonework joints with cement or mortar).

This classification excludes plastering, stuccoing or lathing work which is to be reported separately in classification 0303; tile setting which is to be reported separately in classification 0502; and concrete work which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-511, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-511, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-511, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-511, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-511, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-511, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-511, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-511, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-511, filed 11/9/73, effective 1/1/74.]

WAC 296-17-51101 Classification 0303.

0303-00 Plastering, stuccoing and lathing buildings, N.O.C.

Applies to contractors engaged in interior and exterior plastering, stuccoing and lathing work on buildings or structures not covered by another classification (N.O.C.). Work contemplated by this classification includes the lathing work which involves nailing thin wood or metal strips and wire mesh or Styrofoam panels to studs or joists to support the application of plaster or stucco, mixing of plaster or cement with water, and applying the mixture by hand trowel or low pressure spray apparatus to the lathing material.

This classification excludes masonry or brick work which is to be reported separately in classification 0302; interior painting which is to be reported separately in classification 0521; exterior painting which is to be reported separately in classification 0504; and concrete work which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-51101, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-51101, filed 5/31/96, effective 7/1/96.]

WAC 296-17-512 Classification 0306.

0306-00 Plumbing, N.O.C

Applies to contractors engaged in plumbing work not covered by another classification (N.O.C.). Work contemplated by this classification includes activities such as, but not limited to, rough-in plumbing work as part of new or remodel projects, placement of pipe (plastic, copper or galvanized), cutting and/or threading pipe, soldering, welding or gluing all types of pipe, fittings or valves, installation of fix-

tures (sinks, showers and tubs, faucets), installation of appliances (dishwashers, hot water tanks, refrigerators with ice and water dispensers), and other necessary plumbing activities in connection with water supplies, water carrying, dispensing, or drainage systems. This classification includes incidental side sewer hook ups (street to house) when performed by a plumbing contractor subject to this classification, and only when it is performed as a part of a plumbing contract which includes installation of waste lines and waste carry systems within a building; and sewer pipe cleaning including services provided by service providers engaged in cleaning or unplugging waste lines.

This classification excludes side sewer hook ups performed as part of an excavation contract which are to be reported separately in classification 0101, and underground water line or water main construction which is to be reported separately in classification 0107.

Special note: This classification includes the installation of display areas or showrooms which provide prospective customers an opportunity to inspect the quality of workmanship and products carried by the contractor. Generally, displays or showrooms are installed where the contractor stores his materials. It is common for contractors subject to this classification to sell plumbing fixtures and supplies, but the intent of these areas is not to sell products to walk-in customers. Sale of these products by a plumbing contractor is included in classification 0306. Classifications 2009, 6309, or similar store classifications are not to be assigned to a contractor's business. Employees engaged exclusively in showing the display areas or showrooms to customers are to be assigned classification 6303 provided the conditions of the standard exception general reporting rule have been met.

0306-02 Automatic sprinkler systems or fire extinguishing systems: Installation, service or repair within buildings

Applies to contractors engaged in the installation, service or repair of automatic sprinkler or fire extinguishing systems within buildings. Work contemplated by this classification includes installation of pipe, fittings, couplings, valves, hangers, regulators, and alarms in ceilings, walls and floors, and cutting and/or threading pipe. These systems are usually equipped to release dry chemicals or water automatically when the surrounding temperature exceeds a predetermined limit.

This classification excludes contractors engaged in the installation, service or repair of outside lawn type and agricultural/irrigation sprinkler systems who are to be reported separately in classification 0301, and contractors engaged in all types of general plumbing installation or repair work who are to be reported separately in classification 0306-00.

0306-03 Boilers, steam pipes, water pipes, heating ducts: Installation of covering insulation

Applies to contractors engaged in the installation of insulated covering on boilers, steam pipes, water pipes and heating ducts to help them retain heat. A boiler is a type of enclosed storage tank erected within a building which heats and circulates extremely hot water or converts hot water into steam. Contractors subject to this classification may also install water jets inside the tanks.

This classification excludes contractors primarily engaged in the erection of boiler tanks who are to be reported separately in classification 0306-04, and the removal of asbestos from boilers which is to be reported separately in classification 0512.

0306-04 Boilers, N.O.C.: Installation, service or repair

Applies to contractors engaged in the installation, service or repair of boilers not covered by another classification (N.O.C.), including boiler scaling and tank erection within buildings. A boiler is a type of enclosed storage tank erected within a building which heats and circulates extremely hot water or converts hot water into steam. Work contemplated by this classification includes the erection and/or installation of the boiler or tank (which is above ground), pipes, tubing, ducts, heating units, valves, headers, jets and insulation coverings. Also included is the process of boiler scaling which is the removal of scales or residue from the tank or pipes using chemicals, steam or mechanical methods.

This classification excludes contractors primarily engaged in covering a boiler and pipes with insulation covering who are to be reported separately in classification 0306-03, and the erection of exterior tanks which is to be reported separately in classification 0508.

0306-05 Pump installation, service or repair, N.O.C.

Applies to contractors engaged in the installation, service or repair of pumps related to water or waste carrying systems, and which are not covered by another classification (N.O.C.). Work contemplated by this classification applies to all types of water or sump pumps in connection with residential or commercial settings, water wells, and irrigation and drainage systems. A pump is a device that siphons or transfers material from one source or container to another. Activities include pump installation or repair services related to a building's water lines and water carrying systems, plumbing fixtures, dispensers, swimming pools and hot tubs, water wells, and agricultural or irrigation systems.

This classification excludes the installation of water pumps in connection with drilling operations which is to be reported separately in classification 0103; the installation or repair of service station pumps which is to be reported separately in classification 0603; and contractors engaged in all types of general plumbing installation or repair work who are to be reported separately in classification 0306-00.

0306-06 Water softening or treatment systems - installation of new equipment systems

Applies to establishments engaged in the installation of plumbing lines for new water conditioning, purifying or softening systems. Establishments providing this type of service are not required to be a "licensed plumber" to do the installation; however, it does involve plumbing work. The installation involves cutting the water line between the water source and the building or home. The line is cut with a hacksaw, reciprocating saw, or copper tube cutter, depending on the type of pipe involved. After the line is cut, the water source is connected to the intake of the system and the building or home is connected to the outlet of the system with supply and return lines. The bypass unit will allow the water to remain hard for the outside faucet. A small rubber hose is installed

under the house into the drain. Occasionally, a sump pump is needed. For plastic pipes, glue is used to seal the connections. On copper pipes, soldering equipment is used to secure the connections. Water softening is a process by which the water passes through a resin tank where calcium ions are exchanged for sodium ions, resulting in "soft" water. Periodically, the resin is recharged by "back flushing" with a saturated salt solution from another tank. Installations of this type include the two tanks, pressure regulators, valves, and in new facilities an automatic timer.

Special note: This classification allows for the service or repair of water softening or treatment systems to be reported separately in classification 0607 provided accurate time records are maintained which distinguishes new installation contract work from service or repair contract work.

0306-07 Hot water heater: Installation, service or repair

Applies to contractors engaged exclusively in the installation, service or repair of hot water heater units. Work contemplated by this classification includes removal of old units and the installation of new or replacement units. This includes activities such as disconnecting hot heater units, removal of plastic, copper or galvanized water pipes, installing or setting up new or replacement units, installing new pipes, cutting and/or threading pipe, soldering, welding or gluing all types of pipe, fittings or valves, filling and testing the new or replacement units, and wrapping hot water heaters with insulation blankets.

This classification excludes contractors engaged in all types of general plumbing work, or when the installation, service or repair of a hot water heater unit is performed as part of a general plumbing contract which is to be reported separately in classification 0306-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-512, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-512, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-512, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-512, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-512, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-512, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-512, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-512, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-512, filed 11/30/79, effective 1/1/80; Order 74-40, § 296-17-512, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-512, filed 11/9/73, effective 1/1/74.]

WAC 296-17-513 Classification 0307.

0307-01 Furnaces and heating systems: Installation, service or repair

Applies to contractors engaged in the installation, service, or repair of furnaces and heating systems, including duct work, in all types of residential and commercial settings. These services are generally performed by furnace contractors, heating and ventilation contractors, or sheet metal contractors. Work contemplated by this classification includes the fabrication, erection, installation and duct work performed at the job site. Materials include, but are not limited to, gas or electric furnace units, heater units, heat pumps, air purification systems, fireplace inserts or units, hot water tanks, thermostats, flat sheets of metal, vents, preformed or bent venting duct and pipe, vent collars and reels, fittings, galvanized pipe, insulation wrap, concrete pads and gas logs. Contractors who operate a sheet metal fabrication shop or who prefabricate the duct systems in a shop away from the construction site are to be assigned classification 3404 for the shop fabrication work. When a contractor's business is assigned classification 3404 for shop operations, then classification 5206, "Permanent yard or shop, " is no longer applicable to the contractor's business for the storage of materials or repair to equipment.

This classification excludes sheet metal fabrication shops which are to be reported separately in classification 3404; duct cleaning work which is to be reported separately in classification 1105; installation or repair of ventilation, air conditioning and refrigeration systems which is to be reported separately in classification 0307-04; or the installation of wood stoves which is to be reported separately in classification 0307-05.

Special note: This classification includes the installation of display areas or showrooms which provide prospective customers an opportunity to inspect the quality of workmanship and products carried by the contractor. Generally, displays or showrooms are installed where the contractors store their materials. It is common for contractors subject to this classification to sell furnace and heating system materials and accessories, but the intent of these areas is not to sell products to walk-in customers. Sales of these products by a furnace and heating systems contractor are included in classification 0307. Classification 2009, 6309, or similar store classifications, are not to be assigned to a contracting business. Employees engaged exclusively in showing the display areas or showrooms to customers are to be assigned classification 6303 provided the conditions of the standard exception general reporting rule have been met.

0307-04 Ventilating, air conditioning and refrigeration systems: Installation, service or repair, N.O.C.

Applies to contractors engaged in the installation, service, or repair of ventilating, air conditioning and refrigeration systems not covered by another classification (N.O.C.), including duct work at the job site in all types of residential and commercial settings. These services are generally performed by heating and ventilation contractors, refrigeration contractors, or sheet metal contractors. Work contemplated by this classification includes the fabrication, erection, installation and duct work performed at the job site. Materials include, but are not limited to, air conditioning units, refrigeration systems, air purification systems, hoods and protective metal covers, hot water tanks, flat sheets of metal, vents, preformed or bent duct portions, vent collars and reels, thermostats, fittings, galvanized pipe, insulation wrap, and concrete pads. This classification includes the installation or repair of built-in vacuum systems and air (pneumatic) tube systems, such as those at drive-up teller windows. Contractors who operate a sheet metal fabrication shop or who prefabricate the duct systems in a shop away from the construction site are to be assigned classification 3404 for the shop fabrication work. When a contractor's business is assigned classification 3404 for shop operations, then classification 5206 "Permanent yard or shop" is no longer applicable to the contractor's business for the storage of materials or repair to equipment.

This classification excludes sheet metal fabrication shops which are to be reported separately in classification 3404; installation or repair of furnace or heating systems which is to be reported separately in classification 0307-01; and the installation of wood stoves which is to be reported separately in classification 0307-05.

Special note: This classification includes the installation of display areas or showrooms which provide prospective customers an opportunity to inspect the quality of workmanship and products carried by the contractor. Generally, displays or showrooms are installed where the contractors store their materials. It is common for contractors subject to this classification to sell ventilating and air conditioning equipment and materials, but the intent of these areas is not to sell products to walk-in customers. Sales of these products by a ventilating and air conditioning contractor are included in classification 0307. Classification 2009, 6309, or similar store classifications, are not to be assigned to a contracting business. Employees engaged exclusively in showing the display areas or showrooms to customers are to be assigned classification 6303 provided the conditions of the standard exception general reporting rule have been met.

0307-05 Wood, pellet, or gas stove: Installation, service or repair

Applies to contractors engaged in the installation, service or repair of wood, pellet or gas stoves in all types of residential and commercial settings. Work contemplated by this classification includes the fabrication, installation and duct work performed at the job site. Materials include, but are not limited to, wood, gas or pellet stoves, inserts, heater units, protective metal covers or hoods, gas fireplace logs, preformed or bent venting duct and pipe, or vents and vent collars. Contractors who operate a sheet metal fabrication shop or who prefabricate the duct systems in a shop away from the installation site are to be assigned classification 3404 for the shop fabrication work. When a contractor's business is assigned classification 3404 for the shop operations, then classification 5206, "Permanent yard or shop, " is no longer applicable to the contractor's business for the storage of materials or repair to equipment.

This classification excludes wood stove and accessory stores which are to be reported separately in classification 6309; stove manufacturing which is to be reported separately in classification 5209; sheet metal fabrication shops which are to be reported separately in classification 3404; brick or masonry work which is to be reported separately in classification 0302; and the installation or repair of furnace or heating systems which is to be reported separately in classification 0307-01.

Special note: This classification includes the installation of display areas or showrooms which provide prospective customers an opportunity to inspect the quality of workmanship and products carried by the contractor. Generally, displays or showrooms are installed where the contractors store their materials. It is common for contractors subject to this classification to sell wood stove installation materials and accessories, but the intent of these areas is not to sell products to walk-in customers. Sales of these products by a wood stove installation contractor are included in classification 0307. Classifications 2009, 6309, or similar store classifications, are not to be assigned to a contracting business. Employees engaged exclusively in showing the display areas or showrooms to customers are to be assigned classification 6303 provided the conditions of the standard exception general reporting rule have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-513, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-513, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-513, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-513, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-513, filed 11/9/73, effective 1/1/74.]

WAC 296-17-51301 Classification 0308.

0308-00 Chemical spraying and fumigating

Applies to establishments engaged in providing chemical spraying and fumigating services only to established residential landscaping and commercial properties. Work contemplated by this classification includes, but is not limited to, the application of various liquid and granular chemicals (fertilizers, herbicides, pesticides, insecticides, iron, nitrogen, slow release food stakes) for use on grass, plants, shrubs, flowers, trees, moss, ivy or weeds. Employees of establishments subject to this classification arrive at the location site in a tank truck equipped with a premixed solution that is dispensed with a spray hose, or by fertilizer spreaders, injection guns, and back pack dispensers.

This classification excludes chemical spraying of roadway median strips by nonmunicipal employees adjacent to state, city or town roadways which is to be reported separately in classification 0101; chemical spraying done in connection with forest roads or reforestation projects which is to be reported in the applicable forestry classification; pest and termite control which is to be reported separately in classification 6602; chemical spraying and fumigating by employees of cities, counties, state agencies, or other municipalities which is to be reported in the classification applicable to the type of municipality performing the work; chemical spraying of agricultural farms or orchards which *may* be reported separately in classification 4808 or in the agricultural classification applicable to the employer's operation; and crop dusting by aircraft which is to be reported separately in classification 6903.

0308-01 Lawn care maintenance

Applies to contractors engaged in maintenance of established lawns and gardens. Work contemplated by this classification includes, but is not limited to, mowing and thatching lawns, edging, weeding flower beds, raking, rototilling gardens, application of fertilizers, and spraying and trimming of shrubs. Also included is minor landscape renovation and/or restoration activities incidental to, and performed as part of, the lawn care maintenance contract for an existing lawn or landscape such as the removal and replacement of plants, turf repair or reseeding of grass, and the spreading of decorative rock, topsoil, or bark. This classification includes replacement of sprinkler heads and cleaning of lawn type sprinkler systems only when performed in connection with and incidental to the lawn care maintenance contract. Equipment used by contractors subject to this classification includes, but is not limited to, riding or power lawn mowers, power sweepers, edgers, thatchers, weed eaters, grass blowers, fertilizer

spreaders, sprayers, gas or electric power tools, and hand tools.

This classification excludes new landscape construction which is to be reported separately in classification 0301; tree care and pruning services which are to be reported separately in classification 0101; grading, clearing, or contouring of land which is to be reported separately in classification 0101; installation, service or repair of lawn type sprinkler systems which is to be reported separately in classification 0301; and the installation, service or repair of above or below ground agricultural irrigation systems which is to be reported separately in classification 0301.

Special notes: Classifications 0308 and 0301 may be assigned to the same business provided that the conditions of the general reporting rule covering the operation of a secondary business have been met.

Care should be exercised in the assignment of this classification when tree services are included. Tree care service contracts generally call for the radical topping, pruning or cutting of tree limbs to remove or eliminate a hazard to buildings, property, or power lines. Tree trimming as part of this classification is only for the purpose of shaping and maintaining healthy trees and to control size for the visual relationship to other landscape material.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-51301, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-51301, filed 5/31/96, effective 7/1/96.]

WAC 296-17-516 Classification 0403.

0403-00 Sign: Erection, repair, and/or removal, including related painting and maintenance

Applies to contractors engaged in the erection, repair, and/or removal of signs, including related painting and maintenance. Signs include, but are not limited to, commercial business or personal property signs, advertisement billboards, poster panels erected at commercial or residential properties, private properties, buildings or structures, or open spaces. Signs may be made of wood, metal, plastic, glass, or neon tube. Free standing sign erection process begins with digging or drilling holes in which to stand or set poles or posts. The sign is attached to the pole or post prior to standing or is lifted with a boom or crane to be mounted and secured. Other signs are mounted and secured directly to buildings or structures. This classification includes the related electrical hook-up work to install neon and digital signs such as those located at banks and stores including the maintenance, repair, and painting of signs at the customer's location or at the contractor's shop.

This classification excludes the installation or removal of highway, street, or roadway signs that specify roadway information (such as speed limits, road conditions, city and town mile destinations) which are mounted on overpasses or erected alongside the roadway which are to be reported separately in classification 0219; the placement of temporary signs which is to be reported separately in classification 4910; or the manufacturing of signs which is to be reported separately in the applicable classification.

0403-10 Sign painting or lettering outside buildings or structures, N.O.C.

Applies to contractors engaged in sign painting or lettering outside buildings or structures not covered by another classification (N.O.C.), and includes all contractor's shop operations. Generally, this classification involves specialty lettering or painting such as, but not limited to, business logos, addresses, business hours or phone numbers, murals or other artwork.

This classification excludes contractors engaged in the installation or removal of highway, street, or roadway signs that specify roadway information (such as speed limits, road conditions, city and town mile destinations) which are mounted on overpasses or erected alongside the roadway which are to be reported separately in classification 0219; striping parking lots and painting curbs (and numbering on curbs) which is to be reported separately in classification 0219; sign painting or lettering inside of buildings, including inside murals or other artwork, which is to be reported separately in classification 4109; exterior painting of buildings or structures which are to be reported separately in classification 0504; painting or lettering in connection with an automotive body shop which is to be reported separately in classification 3412; and the erection, repair or removal of outdoor signs which is to be reported separately in classification 0403-00.

0403-11 Street and building decoration: Hanging or removing flags or bunting

Applies to establishments engaged in hanging or removing flags or bunting for conventions, celebrations, events, or similar decorations on the exterior or interior of buildings, structures, or streets. Buntings are strips of decorative cloth which may be used to span a roadway to promote events, as overhead streamers at an auto sales lot, or as a sign hung on a building to advertise grand openings.

This classification excludes the manufacture of flags or bunting which is to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-516, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-516, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-516, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-516, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-516, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-516, filed 11/9/73, effective 1/1/74.]

WAC 296-17-517 Classification 0502.

0502-04 Rug, linoleum, tile and other floor or drainboard covering: Installation or removal

Applies to contractors engaged in the installation or removal of floor or drainboard coverings such as, but not limited to, rugs, wall to wall carpet, linoleum, vinyl, laminate, tile, parquet or astroturf in residential or commercial settings. Work contemplated by this classification includes, but is not limited to, the installation and/or removal of foam or rubber padding, floor coverings such as rugs or carpet, tack strips, door strips, subflooring (particle board or plywood), linoleum, vinyl, base board or door strips, and hauling existing floor covering debris away. This classification also includes the installation of counter tops and the installation of clay or ceramic tiles on drainboards and backsplashes.

This classification excludes contractors engaged in the installation of counter tops as part of an interior finish carpentry or cabinetry contract which is to be reported separately in

classification 0513; the installation of hardwood floors which is to be reported separately in classification 0513; the installation of decorative brick, slate, marble or granite which is to be reported separately in classification 0302; installation of roofing tiles which is to be reported separately in classification 0507; and floor covering stores which are to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-517, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-517, filed 5/31/96, effective 7/1/96; 87-24-060 (Order 87-26), § 296-17-517, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-517, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-517, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-517, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-517, filed 11/9/73, effective 1/1/74.]

WAC 296-17-519 Classification 0504.

0504-06 Waterproofing, N.O.C.: Buildings or structures

Applies to contractors engaged in waterproofing buildings or structures not covered by another classification (N.O.C.), including shop operations. This classification includes the application and repair services of waterproofing material to all types of buildings or structures, regardless of height, including, but not limited to, foundations and foundation walls, floors, decks, fences, walkways and driveways. Waterproof material is applied to a variety of surfaces such as wood, concrete, asphalt, steel, metal, plaster, or stone. There are several types of waterproof processes: Membrane, which adheres long strips of rubber and pumice to exterior walls or foundations with the use of primer; pressure injection, which uses a long wand inserted into the ground to fill cracks; epoxy injection, which is performed on the interior or exterior with use of a caulk gun to inject a silicon material into cracks; or application with use of a brush, roller or spray directly onto the surface.

This classification excludes excavation work performed in conjunction with a waterproofing contract which is to be reported separately in classification 0101; waterproofing operations performed in connection with roofing or subaqueous work which is to be reported separately in the classification applicable to the work being performed; the application of waterproof materials performed as part of roadway or parking lot projects which is to be reported separately in the classification applicable to the work being performed; and the application of waterproof materials performed by a concrete contractor as part of the concrete construction project which is to be reported separately in the classification applicable to the work being performed.

Special note: Classification 0101 applies when excavation work is performed (to remove dirt away from a foundation wall or to push it against the wall after the waterproofing material is applied) regardless of the type of contractor performing the excavation work.

0504-18 Pressure washing services or sandblasting, N.O.C.: Buildings or structures

Applies to contractors engaged in pressure washing or sandblasting buildings or structures, not covered by another classification (N.O.C.), including shop operations. This classification includes cleaning, washing, pressure washing or sandblasting buildings or structures. These services are performed to remove dirt, moss, rust or old paint from buildings or structures. Pressure washing involves a forced spray of air and water to remove unwanted surface materials, whereas, sandblasting, or abrasive blasting, involves a forced spray of sand, steel, or glass. This classification includes the cleaning of roofs, gutters, and downspouts, the removal of moss or snow from multiple story buildings, and the cleaning of ceiling tiles. Pressure washing and sandblasting systems include portable blast and pressure cleaning machines, hand-operated, cabinet-type sandblasting or pressure washing machines, automatic blast or pressure cleaning machines and wet-blast cleaning machines.

This classification excludes contractors engaged in multimedia blasting in shop which is to be reported separately in classification 3402; pressure washing or sandblasting by a painting contractor as a part of the preparation for painting exterior buildings, structures, or the interior/exterior of tanks which is to be reported separately in the classification 0504-21; pressure washing as a part of interior building painting contracts which is to be reported separately in classification 0521; cleaning or washing roofs, or removing snow from, single story buildings (provided the cleaning or washing is not part of a painting or roofing contract) which is to be reported separately in classification 6602; waterproofing buildings or structures, N.O.C. which is to be reported separately in classification 0504-06; and pressure washing or sandblasting operations performed in conjunction with and as a part of another type of business such as a foundry, metal goods manufacturer, auto body repair shop, etc., which is to be reported separately in the applicable classification.

0504-20 Lead abatement

Applies to contractors engaged in lead abatement which is performed on structures where there are significant amounts of lead-based paint and lead dust. Contractors must comply with various governmental regulations. The first step in all lead abatement projects is the preliminary testing of the site to determine the presence of lead and the extent of the contamination. If the ground surrounding the proposed worksite is contaminated, it will require remediation, which is done by a soil remediation contractor who is to be reported separately in the appropriate classification. The next step is deciding which abatement procedure is right for the project such as: Encapsulation which is used on interior surfaces to seal the lead-based paint with a bonding material; enclosure which is used on interior and exterior surfaces and involves constructing special airtight enclosures made out of gypsum wallboard, plywood paneling, aluminum, vinyl or wood exterior sidings; component replacement which involves removing building components such as paneling, moldings, windows and doors which are coated with lead-based paint and replacing them with new components; and chemical removal, abrasive removal or handscraping which are methods to physically remove the lead paint. This classification includes all preparation work and all cleanup work.

This classification excludes soil remediation work which is to be reported separately in classification 0101; asbestos abatement which is to be reported separately in classification 0512; and lead abatement as part of a painting contract for interior/exterior of buildings or structures, or the interior/exterior of tanks which is to be reported separately in the applicable classification.

0504-21 Painting: Exterior buildings or structures, N.O.C.; Cleaning: Interior/exterior of oil or gas storage tanks, beer vats, and sewage treatment tanks

Applies to contractors engaged in painting the exterior of all types of buildings or structures not covered by another classification (N.O.C.), regardless of height. Buildings and structures include, but are not limited to, bridges, towers, smokestacks, stadiums, factories, warehouses, stores, churches, and residential or commercial single or multiple story buildings. Paint is applied by brush, roller or spray to a variety of surfaces such as wood, concrete, steel, metal, plaster, stone, or other types of exterior surfaces. This classification includes all preparation work such as the set up of scaffolding or power lifts, pressure washing, removal of old paint or asbestos, sandblasting, taping or masking, cleanup work and shop operations related to projects described by this classification. This classification also applies to cleaning, coating, or painting the interior/exterior of oil or gas storage tanks, beer vats, or sewage treatment tanks.

This classification excludes contractors engaged in waterproofing buildings or structures, N.O.C. which are to be reported separately in classification 0504-06; pressure washing services or sandblasting of buildings or structures which are to be reported separately in classification 0504-18; interior painting of buildings which is to be reported separately in classification 0521; painting of murals or other artwork on the interior of buildings which is to be reported separately in classification 4109; and painting of murals or other artwork on the exterior of buildings which is to be reported separately in classification 0403.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-519, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-519, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-519, filed 5/30/94, effective 6/30/94; 90-13-018, § 296-17-519, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-519, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-519, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-519, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-519, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-519, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-519, filed 11/30/76; Order 73-22, § 296-17-519, filed 11/9/73, effective 1/1/74.]

WAC 296-17-52001 Classification 0506.

0506-03 Building raising, moving and underpinning

Applies to contractors engaged in raising, moving and underpinning buildings. Work contemplated by this classification includes a variety of services involving the change of a building's elevation, location or support structure including incidental shoring and removal or rebuilding of walls, foundations, columns or piers. Employees of the contractor responsible for the overall completion of the project are to be reported in this classification. *Underpinning* is a process to correct wall cracks, foundation settling or collapse of a building or structure. Generally, underpinning involves one of two methods. In the first method, earth around a foundation is removed to permit construction of a new foundation to replace the old one or to allow for the installation of subfoundations to support the existing earth. This would include masonry or concrete work, blasting (when required) and shoring of surrounding ground and building or structure to prevent cave-ins while foundation work is being performed. The second method deals with steel or wooden beams being inserted through a lower point of the building or structure. The beams are raised and supported by jacks until the foundation is relieved of some or all of its ground pressure. *Building raising or moving* is a process to change a building's position, either raised to a new elevation in place or moved to a new site, or both. Workers, subcontractors or utility companies will first disconnect all utilities from the building or structure to be moved. Workers will remove all detachable items and open foundation walls to allow metal or wood beams to be placed under the floor structure. Once beams are placed, hydraulic jacks are used to lift the building or structure clear of the old foundation high enough for a new foundation to be constructed, or high enough to allow the carrying vehicle (trailer) to be placed under the beams if it is to be moved. The trailer is moved along a previously graded and cleared path to the new location. The building or structure is then set down on a new foundation which is usually constructed by a separate contractor. Miscellaneous repair work is performed and utilities are reconnected.

This classification excludes contractors engaged in clearing paths, grading and excavation work who are to be reported separately in classification 0101; contractors who disconnect or hook-up underground gas, water or power lines who are to be reported separately in classification 0107; contractors who construct concrete foundations for wood frame or nonwood frame buildings who are to be reported separately in classification 0217, or in classification 0518 as applicable; and contractors engaged in the delivery and set up of factory built housing units who are to be reported separately in classification 0517.

0506-04 Building wrecking or demolition

Applies to contractors engaged in wrecking or demolishing buildings or structures. Work contemplated by this classification includes incidental sales of materials, burning or hauling away of debris, and incidental ground clearing activities at the site to permit other use of land. Wrecking and demolition involves barricading the site and walkways to keep nonconstruction workers out of the area to prevent possible injury to them. Guards, watchmen, and traffic controllers (flaggers) are on-site and in adjacent areas to keep work areas secure. Work hours are occasionally restricted to avoid interference with surrounding business activities. Salvage of materials is usually done by hand. Loading of trucks with debris is by chute or front end loaders. Actual demolition of a building or structure is performed in a variety of ways, including dismantling board by board, by crane (pulling sections to the ground), by crane equipped with a steel ball which is swung from the boom of the crane, or by explosives. Employees of the contractor responsible for the overall completion of the project are to be reported in this classification.

This classification excludes security guards employed by contractors to guard the job site before or after the construction work activity hours who are to be reported separately in classification 6601; establishments primarily engaged in selling salvaged building materials which are to be reported separately in classification 2009; and all types of wood frame and nonwood frame building construction, remodeling, or

repair work which is to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52001, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-52001, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-52001, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-52001, filed 11/29/82, effective 1/1/83.]

WAC 296-17-52002 Classification 0507.

0507-05 Roofwork construction and repair

Applies to contractors engaged in the installation or repair of roofing material on all types of new or existing buildings or structures. Roofing materials include, but are not limited to, felt roofing paper, rolled composition, wood, fiberglass or composition shingles or shakes, aluminum or sheet metal, masonry or ceramic tile, tar, and polyurethane foam. Installation of roofing materials varies with the product. Wood, fiberglass and composition shingles are nailed; masonry, slate or ceramic tiles require drilling, nailing or cementing; polyurethane foam is applied by spray then coated with a protective layer of paint-like material; hot tar requires melting in tanks, usually at ground level, then it is pumped or raised by bucket to the roof top and applied by spray or mop; cold apply uses an adhesive to bond roofing membranes to form a roofing system; cold tar is applied by brush, spray or mop; single ply involves large sheets of roofing material which are unrolled on the roof with edges overlapping and seamed; and metal roofing is seam welded or nailed. For purposes of this classification the term "roofwork" includes repairs to the subroof such as the replacement of trusses, rafters, supports, and sheathing, but excludes the placement of trusses, rafters, supports or sheathing on new building construction. Essentially, when removing the existing roof material from an existing building or structure it is not uncommon to find dry rot or deterioration to parts of the subroof. The repair of the subroof is part of the roof repair or replacement project and is included in this classification. By contrast, when a subroof is constructed on new buildings or structures, this activity is to be reported separately in the classification applicable to the work being performed such as 0510 for wood frame construction or 0518 for nonwood frame construction.

This classification excludes roof cleaning, moss or snow removal on single story buildings not incidental to, or part of, a roofing contract which is to be reported separately in classification 6602; roof cleaning or moss removal of multiple story buildings not incidental to, or part of, a roofing contract which is to be reported separately in classification 0504; the installation of gutters and downspouts which is to be reported separately in classification 0519; waterproofing parts of buildings other than roofs which is to be reported separately in classification 0504 and/or 0101; placing roof trusses, rafters, supports and sheathing on new wood frame buildings which is to be reported separately in classification 0510; the application of polystyrene strips used as insulation on mobile homes which is to be reported separately in classification 0512; and placing roof trusses, rafters, supports and sheathing on new buildings, N.O.C. which is to be reported separately in classification 0518.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52002, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52002, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-52002, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-52002, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-52002, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-52002, filed 11/29/82, effective 1/1/83.]

WAC 296-17-521 Classification 0508.

0508-00 Radio, television, water towers, poles and towers, N.O.C.: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of iron, steel or wood, radio, television, water towers, poles, towers and those towers which are not covered by another classification (N.O.C.). Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, raising structural members by crane and welding or bolting them into place. This classification also includes the delivery of material and supplies to the job site and the installation of antennae or other apparatus to a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of a control building or installation of a modular control building which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow the separate reporting of excavation or foundation work irrespective of who performs the work.

0508-01 Smokestack: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of iron, steel or concrete smokestacks. These structures are part of an industrial complex and facilitate the discharge of combustion vapors, gases, or smoke. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, installation of scaffolding, raising segments into place with a crane and welding or bolting them into place. This classification includes the delivery of material and supplies to the job site and installation of any apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; preliminary clearing of land by a contractor who is not also excavating the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of a control building or installation of a modular control building which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow separate reporting of excavation or foundation work irrespective of who performs the work.

0508-02 Windmill and silo: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of iron, steel or wood windmills or silos. Windmills use the force of wind passing around the rotor blades to turn turbines and produce electric power. These may be built individually or in groups known as "wind farms." Additional apparatus and storage batteries are housed in separate buildings nearby. Silos are large cylindrical structures used to store grain or fodder (silage). They are filled through the top by means of a conveyor. Within the structure, augers and pumps can move the grain to blend, aerate, or feed it out the chute. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, raising structural members by crane and welding or bolting them into place. This classification includes the delivery of material and supplies to the job site and the installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of a control building or installation of a modular control building which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow the separate reporting of excavation or foundation work irrespective of who performs the work.

0508-03 Oil still or refinery: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of oil stills or refineries. These facilities are basically composed of multi-story storage tanks, chimneys, pipelines, separating apparatus and steam generating systems. They receive unprocessed petroleum (crude oil) and convert it into usable products such as gasoline, kerosene, wax, grease and chemical feed stocks. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation and other concrete, on-site fabrication and assembly of parts, erecting framework, installation of scaffolding, raising structural members by crane and welding or bolting them into place. This classification includes the delivery of material and supplies to the job site and the installation of apparatus in an oil still or refinery when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of control or pump houses and other buildings not part of the main processing plant which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow separate reporting of excavation or foundation work irrespective of who performs the work and plant maintenance contract work which is to be reported separately in classification 0603.

0508-04 Blast furnace and metal burners: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of blast furnaces and metal burners. These are tall, very heavy gauge, cylindrical steel structures in which heated air and combustible fuels are combined to produce the heat necessary to separate the usable material in metal ores from the waste products. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, installation of a brick lining, raising structural members by crane and welding or bolting into place. This classification includes the delivery of material and supplies to the job site and the installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a mate-

rial supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of additional buildings as part of an ore reduction or metal producing facility which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow separate reporting of excavation or foundation contractors irrespective of who performs the work.

0508-08 Elevated railway, tram, lift or similar conveyances: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of elevated railways, trams, lifts or similar conveyances. An elevated railway can be a full scale railroad or a smaller scale system such as a recreational monorail. For the purposes of this classification, trams are overhead cable cars, and lifts are similar to the typical ski lift. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting frames and supports (metal or concrete), installation of scaffolding, raising structural members by crane and welding or bolting them into place, and installing and securing tracks, cables or pulley systems. This classification includes the delivery of material and supplies to the job site and the installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; or the construction of a control building or installation of a modular control building which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow separate reporting of excavation or foundation contractors irrespective of who performs the work.

0508-09 Exterior tanks, N.O.C.: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of all types of exterior tanks not covered by another classification (N.O.C.). These tanks may be part of water storage and distribution systems, chemical or petroleum processing and storage operations, or other industrial applications. This classification includes the erection or construction of tanks that are elevated on structural piers and those that rest on the ground. These tanks may be constructed singly or in groups known as "tank farms" which are common to the petroleum industry. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, and raising structural members by crane and welding or bolting them into place. This classification includes the delivery of material and supplies to the job site and installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of a control building or installation of a modular control building which is to be reported separately in the applicable construction classification.

Special note: This classification does not allow separate reporting of excavation or foundation contractors irrespective of who performs the work.

0508-11 Crane or derrick: Installation, construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the installation, construction or erection, dismantling, maintenance or repair of nonmobile cranes and derricks for commerce and industrial use. Cranes and derricks can be very similar in that they are both defined as machines for hoisting and moving heavy objects through the use of stationary or movable booms equipped with cables. An object, sometimes weighing many tons, can be secured to the cables and moved into position along the length of a stationary boom or to another location within the reach of a movable boom. A derrick, however, can also be a permanent framework over an opening, such as an oil-drilling operation, to support boring equipment. The cranes included in this classification are those that are permanently installed at a marine port, cargo handling facility or an industrial facility to move supplies, cargo containers, or heavy objects (vertically or horizontally) that are being assembled and must pass through the length of a building to complete the process. Work contemplated by this classification includes, but is not limited to, the placement of forms and reinforcing steel for a foundation (in the case of some structures described above, the additional reinforcing required to support the crane is usually contemplated in the plan for the building's foundation where the crane is being anchored), on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, raising structural members by hoist and welding or bolting them into place. This classification includes the delivery of material and supplies to the job site and installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also

excavating for the foundation which is to be reported separately in classification 0101; and delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification.

Special note: This classification does not allow separate reporting of excavation or foundation contractors irrespective of who performs the work.

0508-12 Water cooling towers or structures - metal or wood: Construction or erection, dismantling, maintenance or repair

Applies to contractors engaged in the construction or erection, dismantling, maintenance or repair of metal or wood water cooling towers or vertical structures. These structures are usually part of an industrial complex in which water is used as a cooling element in a manufacturing process. The water, which absorbs heat from the machinery being cooled, can be circulated and reused after is has been channeled through a cooling tower to be chilled sufficiently. A common design allows the hot water to tumble down numerous open louvers or steps to lower its temperature. These towers are often composed of prefabricated parts which are delivered to the site and then assembled by bolting or welding together, then the necessary motors, pipes, fans and pumps are installed. Work contemplated by this classification includes, but is not limited to, clearing of land (if done by the excavation contractor), excavating for the foundation, the placement of forms, installation of reinforcing steel, pouring and finishing the foundation, on-site fabrication and assembly of parts, erecting the frame, installation of scaffolding, raising structural members by crane and welding, bolting or otherwise fastening them into place. This classification includes the delivery of material and supplies to the job site and installation of apparatus onto a structure covered by this classification when done by employees of an employer having operations subject to this classification.

This classification excludes the felling of timber which is to be reported separately in the applicable logging classification; the installation of machinery which is to be reported separately in classification 0603; the preliminary clearing of land by a contractor who is not also excavating for the foundation which is to be reported separately in classification 0101; delivery of material to the site by employees of a material supplier or a common carrier which is to be reported separately in the applicable classification; and the construction of other related buildings at the project site which is to be reported separately in the applicable construction classification.

Special notes: This classification does not allow separate reporting of excavation or foundation irrespective of who performs the work. Construction of a water cooling structure that uses a horizontal rather than tower-like design is to be reported separately in classification 0518.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-521, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-521, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-521, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-521, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-521, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-521, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-521, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-521, filed 11/30/76; Order 75-38, § 296-17-521, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-521, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-521, filed 11/9/73, effective 1/1/74.]

WAC 296-17-52101 Classification 0509.

0509-00 Overhead telephone or telegraph lines: New construction or extension of lines - including poles or towers; erection, maintenance or repair by contractor

Applies to contractors engaged in the construction, maintenance or repair of overhead telephone or telegraph lines, poles and towers. Work contemplated by this classification includes, but is not limited to, clearing a right of way (excluding logging-type operations), boring holes for poles to be set in, installing cross arms, insulators and brackets on poles (which may be wood or metal), setting poles or towers into position, installing guy wires if necessary, stringing the lines, incidental tree topping, tying into the low-voltage power source, and making service connections when done by employees of an employer having operations subject to this classification. Towers may be of a solid wall, cylindrical steel construction or of a fabricated steel cross member design reaching a height of about 50 feet, and are secured to a concrete pad or set into the ground. They may be used to elevate the lines to cross long distances or to support microwave antennae or receivers.

This classification excludes specialty contractors engaged in any single phase of the work described above: Land clearing and grading operations which are to be reported separately in classification 0101; erection of poles or towers which is to be reported separately in classification 0508; drilling holes which is to be reported separately in classification 0103; tree topping which is to be reported separately in classification 0101; service connections which are be reported separately in classification 0608; underground telephone line installation which is to be reported separately in classification 0107; and the felling of timber which is to be reported separately in the applicable logging classification.

Special note: If done by a telephone or telegraph company the work described above is included in classification 1303. A contractor engaged in the installation of electric and/or cable television overhead lines in addition to telephone and telegraph lines is to be reported in classification 0509-03. If a specialty contractor is only stringing telephone or telegraph lines, and not erecting poles or towers, classification 0509-00 is still applicable.

0509-01 Overhead television lines: New construction or extension of lines - including poles or towers; erection, maintenance or repair by contractor

Applies to contractors engaged in the construction, maintenance or repair of overhead television lines, poles and towers. Work contemplated by this classification includes, but is not limited to, clearing a right of way (excluding logging-type operations), boring holes for poles to be set in, installing cross arms, insulators and brackets on poles (which may be wood or metal), setting poles or towers into position, installing guy wires if necessary, stringing the lines, incidental tree topping, tying into the low-voltage power source, and making service connections when done by employees of an employer having operations subject to this classification.

Towers may be of a solid wall, cylindrical steel construction or of a fabricated steel cross member design reaching a height of about 50 feet, and are secured to a concrete pad or set into the ground. They may be used to elevate the lines over long distances or to support microwave antennae or receivers.

This classification excludes specialty contractors engaged in any single phase of the work described above: Land clearing and grading operations which are to be reported separately in classification 0101; erection of poles or towers which is to be reported separately in classification 0508; drilling holes which is to be reported separately in classification 0103; tree topping which is to be reported separately in classification 0101; service connections which are to be reported separately in classification 0601; underground television line installation which is to be reported separately in classification 0107; and the felling of timber which is to be reported separately in the applicable logging classification.

Special note: If done by a cable television company the work described above is included in classification 1305. A contractor engaged in the installation of overhead electric and/or telephone or telegraph lines in addition to overhead television lines is to be reported in classification 0509-03. If a specialty contractor is only stringing overhead television lines, and not erecting poles or towers, classification 0509-01 is still applicable.

0509-02 Overhead electric transmission lines: New construction or extension of lines - including poles, or towers; erection, maintenance or repair by contractor

Applies to contractors engaged in the construction, maintenance or repair of overhead electric transmission lines, poles and towers. Work contemplated by this classification includes, but is not limited to, clearing a right of way (excluding logging-type operations), boring holes for poles to be set in, installing cross arms, insulators and brackets on poles (which may be wood or metal), setting poles or towers into position, installing guy wires if necessary, stringing the lines, installing circuit breakers and transformers, incidental tree topping, tying into the high-voltage power source, and making service connections when done by employees of an employer having operations subject to this classification. Towers may be of a solid wall, cylindrical steel construction or of a fabricated steel cross member design reaching a height of about 50 feet, and are secured to a concrete pad or set into the ground. They may be used to elevate the lines over long distances or to support electric power distribution apparatus.

This classification excludes specialty contractors engaged in any single phase of the work described above: Land clearing and grading operations which are to be reported separately in classification 0101; erection of poles or towers which is to be reported separately in classification 0508; drilling holes which is to be reported separately in classification 0103; tree topping which is to be reported separately in classification 0101; underground electric line installation which is to be reported separately in classification 0107; and the felling of timber which is to be reported separately in the applicable logging classification.

Special note: If done by an electric power company the work described above is included in classification 1301. A contractor engaged in the installation of overhead telephone or telegraph lines and/or television lines in addition to overhead electric lines is to be reported in classification 0509-03. If a specialty contractor is only stringing overhead electric lines, and not erecting poles or towers, classification 0509-02 is still applicable.

0509-03 Overhead transmission lines, N.O.C.: New construction or extension of lines - including poles or towers; erection, maintenance or repair by contractor

Applies to contractors engaged in the construction, maintenance or repair of more than one type of overhead transmission line, including poles and towers which are not covered by another classification (N.O.C.). If the contractor specializes in either telephone, telegraph, television or electric lines, they can be specifically defined elsewhere within classification 0509. Work contemplated by this classification includes, but is not limited to, clearing a right of way (excluding logging-type operations), boring holes for poles to be set in, installing cross arms, insulators and brackets on poles (which may be wood or metal), setting poles or towers into position, installing guy wires if necessary, stringing the lines, incidental tree topping, installing circuit breakers and transformers, tying into the power source, and making service connections when done by employees of an employer having operations subject to this classification. Towers may be of a solid wall cylindrical steel construction or of a fabricated steel cross member design reaching a height of about 50 feet, and are secured to a concrete pad or set into the ground. They may be used to elevate the lines over long distances or to support microwave antennae, receivers or electric power distribution apparatus.

This classification excludes specialty contractors engaged in any single phase of the work described above: Land clearing and grading operations which are to be reported separately in classification 0101; erection of poles or towers which is to be reported separately in classification 0508; drilling holes which is to be reported separately in classification 0103; tree topping which is to be reported separately in classification 0101; service connections for cable television lines which is to be reported separately in classification 0601; underground line installation which is to be reported separately in classification 0107; and the felling of timber which is to be reported separately in the applicable logging classification.

Special note: If done by a telephone or telegraph company, the work described above is included in classification 1303; if done by a cable television company it is included in classification 1305; if done by an electric utility company it is included in classification 1301. If a specialty contractor is only stringing a combination of types of overhead lines, and not erecting poles or towers, classification 0509-03 is still applicable.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52101, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-52101, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-52101, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-52101, filed 11/29/82, effective 1/1/83.]

WAC 296-17-52102 Classification 0510.

0510-00 Wood frame building: Construction or alterations, N.O.C.

Applies to contractors engaged in wood frame building construction or alterations not covered by another classification (N.O.C.). For the purposes of this classification, wood frame building construction means buildings erected exclusively of wood or wood products. This classification includes all building framing activities done in connection with wood frame building construction including the placement of roof trusses, sheathing roofs, installation of exterior building siding, and the installation of exterior doors and door frames.

This classification excludes all other phases of wood frame building construction not listed as part of the framing activities above such as, but not limited to, site preparation and excavation (0101); overhead or underground utilities, asphalt work, or concrete work which is to be reported separately in the applicable classification; new landscape work (0301); brick work (0302); stucco work (0303); plumbing work (0306); HVAC work (0307); carpet and tile work (0502); exterior painting (0504); roof work (0507); insulation work (0512); interior finish carpentry - interior doors, cabinets, fixtures or molding (0513); installation of garage doors (0514); installation of sheet metal siding, gutters, aluminum carports (0519); interior painting (0521); electrical work (0601) or wallboard installation, taping or texturing which are to be reported separately in the applicable classifications. For a more thorough description of the activities included and excluded from wood frame building construction, review the Construction Industry Guide.

Special note: Classification 0510 also includes wood frame building alterations or remodel work when the activity involves building new additions. The term "new additions" is defined as adding on to an existing wood frame building (upwards or outwards) in which the use of structural supports and main bearing beams is required. This is distinguishable from classification 0516 -building repair or carpentry work that typically does not require the placement of structural supports or main bearing beams. The purpose of classification 0516 is to build or rebuild with nonstructural or bearing beams, or to replace an existing portion (including existing structural and bearing beams) of a wood frame building for appearances or as a result of deterioration to make it appear new again. Care should be exercised as the terminology to build, rebuild, remodel, construct or reconstruct is irrelevant to assignment of classification which should recognize what the project actually involves.

Guidelines:

Constructing a new wood frame building that never existed -0510

Altering all or part of an existing wood frame building by adding on new additions - 0510

Remodeling all or part of an existing wood frame building *without* adding on new additions - 0516

Installation of wood or vinyl siding on a new or existing wood frame building - 0510

Constructing a new wood garage that never existed - 0510

Altering all or part of an existing wood garage by adding on new additions - 0510

Remodeling all or part of an existing wood garage without adding on new additions - 0516

Constructing a new wood carport or wood shed that never existed - 0510

Rebuilding an existing wood carport or wood shed (all or part) with or without new additions - 0516

Construction of a new wood deck by the framing contractor when a new wood house is being built - 0510

Constructing or replacing a wood deck on an existing wood house - 0516

Constructing or replacing a wood deck for any type of nonwood building - 0516

Altering the existing interior of a wood frame building by adding exterior additions - 0510

Remodeling the existing interior of a wood frame building without adding exterior additions - 0516

Constructing, altering, or remodeling the interiors of nonwood frame buildings - 0516

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52102, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-52102, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-52102, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-52102, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-52102, filed 11/27/85, effective 1/1/86.]

WAC 296-17-52103 Classification 0511.

0511-00 Glass installation in buildings

Applies to contractors and glass merchants engaged in the installation and/or removal of glass in buildings and residences. This type of work is generally performed by a "glazier" who installs, removes, and/or boards up broken or damaged window or door glass. This classification includes a variety of glass, plastic and similar materials in buildings and residences, including exterior glass curtain walls on multistory buildings, skylights, mirrors, storm windows, window sashes and window/door glass. This classification also includes glass tinting or the application of tinted plastic film to glass windows and doors in buildings or residences.

This classification excludes glass merchants which are to be reported separately in classification 1108; the installation of auto glass which is to be reported separately in classification 1108 when performed at or away from the glass merchant's shop; glass frosting, etching or beveling which is to be reported separately in classification 1108; tinting or the application of tinted plastic film to auto glass by an auto detailer which is to be reported separately in classification 3406; glass manufacturing which is to be reported separately in classification 3503; and the installation of windows, window frames and skylights when performed as part of a framing contract on a wood frame building by the framing workers which is to be reported separately in classification 0510.

Special note: Care should be exercised when determining if the business is a glass installation contractor or a glass merchant. A glass merchant in classifications 1108 and 0511, does not qualify for classification 5206 "Permanent yard or shop." However, if the business is engaged exclusively as a glass installation contractor, and not as a glass merchant, the

contractor's business *may* qualify for classification 5206 for the storage of materials.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52103, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52103, filed 5/31/96, effective 7/1/96; 86-12-041 (Order 86-18), § 296-17-52103, filed 5/30/86, effective 7/1/86.]

WAC 296-17-52104 Classification 0512.

0512-00 Insulation or sound proofing materials: Installation, N.O.C.

Applies to contractors engaged in installing insulation or sound proofing materials not covered by another classification (N.O.C.). This classification includes the installation or removal of insulation material for all types of residential or commercial buildings or structures. Insulation materials include, but are not limited to, flexible types in the form of blankets, rolls or quilts, loose fills or mineral substances in granulated, powder, cellulose or fibrous wood forms, pads and bats of mineral wool, slabs of cork board or wood fiber, rigid types such as wood and sugarcane fiberboard or panels, and the reflective type often consisting of aluminum foil encased in paper. The methods of installation include hand, blower, nailing, or cementing with special adhesive. This classification includes the installation of suspended or acoustical grid ceilings. This classification includes installation of weather strip and caulking, roof or soffit ventilators, energy efficient doors and related carpentry work done in connection with the weatherization or retrofitting of buildings and residences. This classification also includes the application of polystyrene strips placed as insulation on the tops of mobile homes.

This classification excludes the installation of glass windows in buildings which is to be reported separately in classification 0511; energy auditors with no installation or delivery duties who may be reported separately in classification 6303 provided all the conditions of the general reporting rules covering standard exception employees have been met; asbestos abatement which is to be reported separately in classification 0512-01; lead abatement which is to be reported separately in classification 0504; and the installation of insulated covering on boilers or steam pipes which is to be reported separately in classification 0306.

0512-01 Asbestos abatement

Applies to contractors engaged in the removal of asbestos. Work contemplated by this classification includes all operations such as, but not limited to, the removal of damaged, deteriorated or unwanted existing asbestos coverings and material from buildings and other structures such as, but not limited to, ceilings, walls, partitions, floors, and from around air conditioning and heating ducts. Also included in this classification is the removal of asbestos insulated covering around boilers and steam pipes, asbestos used as insulation, fireproofing, and in various building materials such as floor coverings, ceiling tiles, cement sheeting, granular and corrugated wrap, and acoustical and decorative treatment for walls and ceilings.

This classification excludes contractors engaged in the installation of boiler and steam pipe insulation coverings who are to be reported separately in classification 0306; lead abatement which is to be reported separately in classification 0504; asbestos abatement as a part of painting the interior or exterior of buildings or structures or the interior/exterior of tanks which is to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52104, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52104, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-52104, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-52104, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-52104, filed 5/30/86, effective 7/1/86.]

WAC 296-17-52105 Classification 0513.

0513-00 Interior finish carpentry

Applies to contractors engaged in interior finish carpentry work for all types of buildings. Generally, the interior finish carpentry work begins after the drywall, taping, texturing, and painting and/or wallpapering is complete. This classification includes a variety of interior finish or trim carpentry work to include, but not be limited to, the installation of wood paneling and wainscoting, wood fireplace mantels, stair railings, posts and banisters, interior doors and door frames, wood molding on windows, baseboards, interior fixtures such as towel bars and tissue holders, closet organizers, installation and/or finishing of hardwood flooring, and cabinets such as kitchen, medicine, laundry and storage. Contractors who operate a wood cabinet manufacturing or assembly shop away from the construction site, are to be assigned classification 2907 for the shop manufacturing work. When a contractor's business is assigned classification 2907 for the shop operation, then classification 5206, "Permanent yard or shop, " is no longer applicable to the contractor's business for the storage of materials or repair of equipment. This classification includes the installation of counter tops as part of a contract which includes the installation of cabinets or other interior finish or carpentry work. Contractors engaged exclusively in the installation of counter tops or as part of a floor covering contract are to be reported separately in classification 0502.

This classification excludes all carpentry work on the exterior of a building, or interior work such as framing interior walls, installing wallboard, taping and texturing walls, plastering, painting, masonry, glazing, insulation, installing overhead garage or exterior doors, concrete, electrical and plumbing work which is to be reported separately in the applicable classification.

Special note: This classification includes the installation of cabinet display areas or showrooms which provide prospective customers an opportunity to inspect the quality of workmanship and products carried by the contractor. Generally, displays or showrooms are installed where the contractors store their materials. It is common for contractors subject to this classification to sell some interior finish-related products, but the intent of these areas is not to sell products to walk-in customers. Sale of these products by an interior finish contractor is included in classification 0513. Classifications 2009, 6309, or similar store classifications, are not to be assigned to a contracting business. Employees engaged exclusively in showing the display areas or showrooms to

customers are to be assigned classification 6303 provided all the conditions of the general reporting rule covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52105, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-52105, filed 5/29/87, effective 7/1/87.]

WAC 296-17-52106 Classification 0514.

0514-00 Garage or overhead door: Installation, service or repair

Applies to contractors engaged in the installation, service or repair of garage or overhead doors made of wood, metal, or aluminum. As part of a new construction project, the installation usually occurs before the building or structure is painted. Garage or overhead door installation can also occur as a replacement to an existing door or as an alteration or addition to a building or structure. The process involves installing door tracks on both sides of the doorway, inserting the door, which usually consists of panels or sections, into the tracks, and attaching panels or sections to one another. This classification also includes the installation of automatic door openers when performed as a part of the garage or overhead door installation contract, and by the same contractor installing the doors.

This classification excludes the installation of automatic door openers when it is not performed as a part of the garage or overhead door installation contract and by the same installation contractor which is to be reported separately in classification 0603, as is all service or repair for automatic door openers; the installation of exterior glass doors and door frames such as nonautomatic and automatic opening doors at retail establishments or commercial buildings which are to be reported separately in classification 0511; the installation of interior or exterior doors and door frames when performed by a framing contractor as part of framing a wood frame building which is to be reported separately in classification 0510; the installation of interior doors and door frames which is to be reported separately in classification 0513; the installation of wood, fiberglass or metal exterior doors as part of a nonwood frame building when performed by employees of the general contractor which is to be reported separately in classification 0518; and the repair or replacement of wood, fiberglass or metal doors on an existing building which is to be reported separately in classification 0516.

0514-01 Nonstructural additions to buildings or structures: Installation, removal, alteration, and/or repair

Applies to contractors engaged in the installation, removal, alteration, and/or repair of nonstructural additions to buildings or structures. Nonstructural iron, steel, brass or bronze additions include, but are not limited to, fire escapes, staircases, balconies, railings, window or door lintels, protective window or door gratings, bank cages, decorative elevator entrances or doors, wall facades and facings. Shutters and similar decorative add-ons may be made of wood, vinyl or plastic. Generally, the process involves bolting, screwing, riveting, or welding these additions to the interior or exterior of buildings or structures. Contractors who operate a shop to prefabricate the additions are to be assigned the classification applicable for the shop manufacturing work being performed. When a contractor's business is assigned a manufacturing classification for shop operations, classification 5206, "Permanent yard or shop," is no longer applicable to the contractor's business for the storage of materials or repair of equipment. This classification also applies to the installation of permanent stadium seating.

This classification excludes sheet metal installation such as siding, gutters and downspouts, and aluminum patio covers/carports which are to be reported separately in classification 0519; the installation, repair or dismantling of portable bleachers or stages which is to be reported separately in classification 0603; and the erection of commercial metal carports, service station canopies, and structural iron or steel work as part of a building or structure which is to be reported separately in classification 0518.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52106, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-52106, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-52106, filed 5/31/88, effective 7/1/88.]

WAC 296-17-52108 Classification 0516.

0516-00 Building repair and carpentry, N.O.C.

Applies to contractors engaged in building repair and carpentry work, not covered by another classification (N.O.C.). This classification applies to carpentry-related framing work on concrete, brick and steel buildings, and to wood framed building renovation and remodeling projects where the structure is not being modified or altered. Typical projects include, but are not limited to: Converting a room from one use to another, such as a bedroom to a study, or a garage to a family room; enlarging or changing the configuration of a room by removing or adding an interior wall; upgrading a kitchen or bathroom; or adding structures such as a wooden deck to an existing building, screening a porch, installing a wood patio cover, or assembling lightweight garden sheds. Contractors subject to this classification use a variety of dimensional lumber and wood products as well as metal fasteners (nails, screws and bolts), and metal reinforcing or support straps such as joist hangers and post brackets. Technological changes have produced new materials which are replacing wood and wood products. These materials include, but are not limited to, light weight metal studs and plastic and fiber reinforced boards. This classification includes the framing of private residences with light weight metal studs and the installation of earthquake tie downs on residential buildings. This classification also includes specialty service providers or contractors engaged in providing general repair services (handyman) on buildings and dwellings. Classification 0516-00 can be used for these businesses to simplify recordkeeping and reporting if they provide general carpentry work and at least two of the following types of *repair* work; electrical, plumbing, cabinet, interior alteration, painting, drywall, masonry, carpet/linoleum/laminate, glazing, or appliance repair.

This classification excludes roofing or roof work which is to be reported separately in classification 0507.

0516-01 Wood playground equipment: Installation and/or repair

Applies to contractors engaged in the installation and/or repair of wood playground equipment. Work contemplated by this classification begins after the area of land has been excavated and/or cleared and includes installing wood playground equipment at private residences and in public settings such as, but not limited to, schools, parks, daycare centers, churches, and hotels. This classification usually includes a variety of playground equipment comprised of treated wood beams, poles, posts, and a variety of dimensional lumber used in building swings, forts, stationary and swinging bridges, balance beams, climbing towers, slides, and rope and tire walks. Generally, the process involves setting poles or posts with use of a post hole digger, backhoe or tractor equipped with an auger. The poles or posts may be set in concrete. Depending on the piece of equipment being built, use of beams, planks, dimensional lumber, rope, chains, tires, and metal bars or rings, are securely attached with nails, screws, bolts or eye hooks. This classification includes the building of borders surrounding the playground equipment area with beams or railroad ties and the spreading of pea gravel, sand or wood chips underneath the equipment.

This classification excludes the installation of metal playground equipment which is to be reported separately in classification 0603, and the excavation or clearing of land which is to be reported separately in classification 0101.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52108, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-52108, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-52108, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-52108, filed 5/31/88, effective 7/1/88.]

WAC 296-17-52109 Classification 0517.

0517-00 Factory built housing units: Set up by contractor or by employees of the manufacturer

Applies to the set up of factory built housing units such as mobile/manufactured homes, modular homes, or prefab cedar homes by contractors who work independently from a sales dealership or by employees of the manufacturer. This classification includes delivery of the factory built unit when performed by the set up contractor. The set up process includes placement of the unit or unit sections on blocks or foundations; joining the interior and exterior sections which may involve incidental placement of ridge cap, siding, trim boards, moldings, and interior seams; plumbing and electrical connections; and the installation of skirting, awnings or decks.

This classification excludes mobile home or factory built housing sales dealerships who set up and/or deliver the unit to a sales location or customer's site which are to be reported separately in classification 3415; the delivery of a mobile home or other factory built housing unit by a trucking service which is to be reported separately in classification 1102; the pouring of foundations; and/or the construction of carports, garages or storage sheds regardless if performed by employees of the set up contractor or by another contractor which is to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52109, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-52109, filed 12/1/89, effective 1/1/90.]

WAC 296-17-52110 Classification 0518.

0518-00 Building construction, N.O.C.: Alterations and concrete construction, N.O.C.

Applies to contractors engaged in building construction, not covered by another classification (N.O.C.), including alterations. Work contemplated by this classification includes nonwood frame buildings and structures such as, but not limited to, waste treatment and waste disposal plants, fish hatcheries and stadiums in which the superstructure, skeleton framework, or building shell consists of concrete, iron or steel, or a combination of concrete, iron, steel and/or wood. This classification makes no distinction to the size of the structure or number of stories within the building and includes all concrete tilt-up buildings. Activities include, but are not limited to, the set up and tear down of forms, placement of reinforcing steel, rebar, or wire mesh, pouring and finishing concrete within the building or structure such as foundations, monolithic slabs, ground supported floor pads, precast or poured in place bearing floors or wall panels, columns, pillars, balconies, stairways, including the raising and/or standing of concrete tilt-up walls or precast floors and wall portions, and raising and securing metal frames or members into place using a crane or boom and securing by bolt, rivet or weld.

This classification excludes all other phases of construction which are not in connection with building the superstructure, skeleton framework, or building shell such as, but not limited to, site preparation and excavation which is to be reported separately in classification 0101; bridge or tunnel construction which is to be reported separately in classification 0201; pile driving which is to be reported separately in classification 0202; underground utilities and systems which is to be reported separately in the classification applicable to the work being performed; asphalt work which is to be reported separately in the classification applicable to the work being performed; concrete paving or flatwork not contained within the building which is to be reported separately in the classification applicable to the work being performed; new landscape construction which is to be reported separately in classification 0301; brick, block, granite, marble, slate or masonry work which is to be reported separately in classification 0302; plastering, stuccoing and lathing work which is to be reported separately in classification 0303; plumbing work which is to be reported separately in classification 0306; HVAC work which is to be reported separately in classification 0307; carpet and tile work which is to be reported separately in classification 0502; exterior painting which is to be reported separately in classification 0504; roof work which is to be reported separately in classification 0507; installation of glass panels, curtain walls or windows which is to be reported separately in classification 0511; installation of insulation, sound proofing or suspended acoustical ceilings which is to be reported separately in classification 0512; interior finish carpentry such as the installation of interior doors, cabinets, fixtures or molding which is to be reported separately in classification 0513; installation of overhead doors, garage doors which is to be reported separately in classification 0514; installation of exterior doors and door frames, interior framing and carpentry work which is to be reported separately in classification 0516; installation of

sheet metal siding or gutter work which is to be reported separately in classification 0519; interior building painting which is to be reported separately in classification 0521; electrical work which is to be reported separately in classification 0601; the installation of elevators and elevator door bucks which is to be reported separately in classification 0602; new dam construction projects which are to be reported separately in classification 0701; wood frame buildings which are to be reported separately in classification 0510; light weight metal sheds which are to be reported separately in classification 0516; brick or block buildings which are to be reported separately in classification 0302 and wallboard installation, taping or texturing which are to be reported separately in the applicable classifications.

0518-01 Metal carport: Erection

Applies to contractors engaged in the erection of metal carports such as those used for commercial parking lots. This classification includes raising and securing metal frames, members, or I-beams into place with a boom or crane and securing by bolt, rivet or weld.

This classification excludes the erection of a nonstructural steel carport which is to be reported separately in classification 0519, and the erection of a wood carport which is to be reported separately in the applicable carpentry classification (see classification 0510 for additional information).

0518-02 Metal service station canopy: Erection

Applies to contractors engaged in the erection of metal service station canopies. Work contemplated by this classification includes, but is not limited to, raising and securing metal frames, members, or I-beams into place with a boom or crane and securing by bolt, rivet or weld.

This classification excludes the removal or installation of underground tanks which is to be reported separately in classification 0108, and the removal or installation of service station pumps which is to be reported separately in classification 0603.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52110, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52110, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-52110, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-52110, filed 12/1/89, effective 1/1/90.]

WAC 296-17-52111 Classification 0519.

0519-00 Building construction sheet metal work, N.O.C.

Applies to contractors engaged in the installation or repair of sheet metal work in building construction, not covered by another classification (N.O.C.). Work contemplated by this classification applies to interior and exterior sheet metal work for residential or commercial buildings and includes wood frame, pole buildings, and nonwood frame buildings. This classification includes the installation of metal or aluminum siding, gutters and downspouts, nonstructural steel carports, and aluminum or sheet metal patio covers. This classification includes the installation of metal industrial shelving and the installation of stainless steel counter tops, and interior walls (such as the back splash behind stoves or sinks) in restaurants. Contractors who operate a sheet metal fabrication shop or prefabricate the gutters, downspouts and posts in a shop away from the construction site are to be assigned classification 3404 for the shop operations. When a contractor's business is assigned classification 3404 for shop operations then classification 5206 "Permanent yard or shop" is no longer applicable to the contractor's business for the storage of materials or repair to equipment.

This classification excludes sheet metal work as part of heating ventilation and air conditioning systems installation which is to be reported separately in classification 0307; the installation of aluminum or sheet metal as part of roof work which is to be reported separately in classification 0507; the installation of light weight metal sheds which is to be reported separately in classification 0516; and the installation of commercial metal carports and service station canopies which is to be reported separately in classification 0518.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52111, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-52111, filed 12/1/89, effective 1/1/90.]

WAC 296-17-52113 Classification 0521.

0521-00 Painting building interiors; wallpaper hanging/removal

Applies to contractors engaged in painting building interiors regardless of the height inside the building. This classification includes building interiors such as, but not limited to, single and multiple story residential houses and commercial buildings, warehouses, factories, coliseums, theaters, stores and churches. The following structures are examples which would ***not meet*** the definition of a building or qualify as interior painting: Bridges, refineries, grain silos, water towers, service station canopies, or tanks. Paint is applied by brush, roller or spray to a variety of surfaces such as wood, wallboard, plaster, stucco, metal, concrete, or other types of surfaces found within the interior of a building. This classification includes all preparation work such as the set up of scaffolding, sanding, removal of old paint or asbestos, taping or masking, clean up and shop operations. This classification also includes the hanging or removal of wallpaper. The process of hanging wallpaper includes cleaning or scraping walls to ensure the wallpaper will adhere to the surface. Depending on the type of wallpaper, adhesive is applied to the wall surface, the wallpaper, or both. Patterns are matched and the strip is applied to the surface and brushed smooth to remove the air pockets. This process is repeated until the entire job is complete. This classification also includes refinishing or resurfacing of tubs, sinks, appliances and countertops.

This classification excludes exterior painting of buildings or structures which is to be reported separately in classification 0504. Classifications 0521 and 0504 may be assigned to the same employer provided accurate records are maintained which distinguish interior building painting contracts from exterior building or structure painting contracts. This classification also excludes contractors engaged in waterproofing buildings or structures N.O.C., pressure washing services or sandblasting of buildings or structures, lead paint abatement, and the exterior painting of buildings or structures, including interior/exterior tanks which are all to be reported separately in classification 0504; painting of murals or other artwork on the interior of buildings which is to be reported separately in classification 4109; and painting of

murals or other artwork on the exterior of buildings which is to be reported separately in classification 0403.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52113, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52113, filed 5/31/96, effective 7/1/96.]

WAC 296-17-52116 Classification 0524.

0524-00 Wallboard installation - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in the installation or repair of wallboard. This classification includes the installation of wallboard, drywall, or sheetrock in all types of residential or commercial buildings or structures. Material is generally delivered to the construction site by employees of the building material dealers. This classification includes delivery of materials to the construction site when performed by employees of the wallboard contractor. The process consists of cutting wallboard with a utility knife, hacksaw, or power saw to the desired size and then butting material into place and nailing or screw fastening to wood or aluminum wall studs. Electrical box, window, or door openings are cut out where needed. Installation may require the use of scaffolding, ladders, specialty lifts, or stilts when working at heights, including the use of T holders or hydraulic lifts to hold material being installed on ceilings.

This classification excludes wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534; interior painting work which is to be reported separately in classification 0521; plastering, stuccoing or lathing work which is to be reported separately in classification 0303; and the framing of nonbearing walls when performed by the drywall contractor which is to be reported separately in classification 0516.

Special note: *The basis of premium for this classification is material installed (square feet).* For contractors to be assigned and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52116, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-06-007, § 296-17-52116, filed 2/24/97, effective 4/1/97.]

WAC 296-17-52118 Classification 0526.

0526-00 Wallboard taping - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in taping wallboard in residential or commercial buildings or structures. This process occurs after wallboard, drywall, or sheetrock has been installed and involves taping the seams, and spreading joint compound over the seams and nail or screw heads. When dry, the seams are sanded to remove any rough edges.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52118, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52118, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52119 Classification 0527.

0527-00 Wallboard priming and texturing - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in priming and texturing wallboard in residential or commercial buildings or structures. Priming is the application of an undercoating that may be applied either directly to the wallboard or after it has been textured. The priming application is necessary for any subsequent painting work. Texture is a putty-like material that is sprayed over the prepared wallboard in a clump-like application. The clumps are smoothed with a trowel or a wide putty knife. This classification includes incidental painting when performed by employees of the priming and texturing contractor.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52119, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52119, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52120 Classification 0528.

0528-00 Wallboard stocking by nonmaterial dealer employees - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors or employees of contractors engaged in the process of stocking drywall. This activity usually entails placing the needed amount of drywall within the various rooms of the residential or commercial building or structure being built.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which is to be reported separately in classification 0527 or

murals or other artwork on the exterior of buildings which is to be reported separately in classification 0403.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52113, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-52113, filed 5/31/96, effective 7/1/96.]

WAC 296-17-52116 Classification 0524.

0524-00 Wallboard installation - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in the installation or repair of wallboard. This classification includes the installation of wallboard, drywall, or sheetrock in all types of residential or commercial buildings or structures. Material is generally delivered to the construction site by employees of the building material dealers. This classification includes delivery of materials to the construction site when performed by employees of the wallboard contractor. The process consists of cutting wallboard with a utility knife, hacksaw, or power saw to the desired size and then butting material into place and nailing or screw fastening to wood or aluminum wall studs. Electrical box, window, or door openings are cut out where needed. Installation may require the use of scaffolding, ladders, specialty lifts, or stilts when working at heights, including the use of T holders or hydraulic lifts to hold material being installed on ceilings.

This classification excludes wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534; interior painting work which is to be reported separately in classification 0521; plastering, stuccoing or lathing work which is to be reported separately in classification 0303; and the framing of nonbearing walls when performed by the drywall contractor which is to be reported separately in classification 0516.

Special note: *The basis of premium for this classification is material installed (square feet).* For contractors to be assigned and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52116, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-06-007, § 296-17-52116, filed 2/24/97, effective 4/1/97.]

WAC 296-17-52118 Classification 0526.

0526-00 Wallboard taping - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in taping wallboard in residential or commercial buildings or structures. This process occurs after wallboard, drywall, or sheetrock has been installed and involves taping the seams, and spreading joint compound over the seams and nail or screw heads. When dry, the seams are sanded to remove any rough edges.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52118, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52118, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52119 Classification 0527.

0527-00 Wallboard priming and texturing - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in priming and texturing wallboard in residential or commercial buildings or structures. Priming is the application of an undercoating that may be applied either directly to the wallboard or after it has been textured. The priming application is necessary for any subsequent painting work. Texture is a putty-like material that is sprayed over the prepared wallboard in a clump-like application. The clumps are smoothed with a trowel or a wide putty knife. This classification includes incidental painting when performed by employees of the priming and texturing contractor.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52119, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52119, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52120 Classification 0528.

0528-00 Wallboard stocking by nonmaterial dealer employees - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors or employees of contractors engaged in the process of stocking drywall. This activity usually entails placing the needed amount of drywall within the various rooms of the residential or commercial building or structure being built.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which is to be reported separately in classification 0527 or

0532; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52120, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52120, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52121 Classification 0529.

0529-00 Wallboard scrapping by nonmaterial dealer employees - discounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors or employees of contractors engaged in the process of scrapping drywall. This activity entails the picking up and discarding of the wallboard remnants and scraps.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; and wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533.

Special note: *The basis of premium for this classification is material finished (square feet).* For contractors to be assigned, and continue to report in this classification, their account must remain in good standing and conform to the conditions specified in the special drywall industry rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52121, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52121, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52122 Classification 0530.

0530-00 Wallboard installation - nondiscounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in the installation or repair of wallboard. This classification includes the installation of wallboard, drywall, or sheetrock in all types of residential or commercial buildings or structures. Material is generally delivered to the construction site by employees of the building material dealers. This classification includes delivery of materials to the construction site when performed by employees of the wallboard contractor. The process consists of cutting wallboard with a utility knife, hacksaw, or power saw to the desired size and then butting material into place and nailing or screw fastening to wood or aluminum wall studs. Electrical box, window, or door openings are cut out where needed. Installation may require the use of scaffolding, ladders, specialty lifts, or stilts when working at heights, including the use of T holders or hydraulic lifts to hold material being installed on ceilings.

This classification excludes wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534; interior painting work which is to be reported separately in classification 0521; plastering, stuccoing or lathing work which is to be reported separately in classification 0303; and the framing of nonbearing walls when performed by the drywall contractor which is to be reported separately in classification 0516.

Special note: *The basis of premium for this classification is material installed (square feet).*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52122, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52122, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52123 Classification 0531.

0531-00 Wallboard taping - nondiscounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in taping wallboard in residential or commercial buildings or structures. This process occurs after wallboard, drywall, or sheetrock has been installed and involves taping the seams, and spreading joint compound over the seams and nail or screw heads. When dry, the seams are sanded to remove any rough edges.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52123, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52123, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52124 Classification 0532.

0532-00 Wallboard priming and texturing - nondiscounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors engaged in priming and texturing wallboard in residential or commercial buildings or structures. Priming is the application of an undercoating that may be applied either directly to the wallboard or after it has been textured. The priming application is necessary for any subsequent painting work. Texture is a putty-like material that is sprayed over the prepared wallboard in a clump-like application. The clumps are smoothed with a trowel or a wide putty knife. This classification includes incidental painting when performed by employees of the priming and texturing contractor.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard stocking by nonmaterial dealer employees which is to be reported separately in classi-

fication 0528 or 0533; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52124, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52124, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52125 Classification 0533.

0533-00 Wallboard stocking by nonmaterial dealer employees - nondiscounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors or employees of contractors engaged in the process of stocking drywall. This activity usually entails placing the needed amount of drywall within the various rooms of the residential or commercial building or structure being built.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; and wallboard scrapping by nonmaterial dealer employees which is to be reported separately in classification 0529 or 0534.

Special note: *The basis of premium for this classification is material finished (square feet).*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52125, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52125, filed 5/27/97, effective 7/1/97.]

WAC 296-17-52126 Classification 0534.

0534-00 Wallboard scrapping by nonmaterial dealer employees - nondiscounted rate ***(to be assigned only by the drywall underwriter)***

Applies to contractors or employees of contractors engaged in the process of scrapping drywall. This activity entails the picking up and discarding of the wallboard remnants and scraps.

This classification excludes wallboard installation which is to be reported separately in classification 0524 or 0530; wallboard taping which is to be reported separately in classification 0526 or 0531; wallboard priming and texturing which is to be reported separately in classification 0527 or 0532; and wallboard stocking by nonmaterial dealer employees which is to be reported separately in classification 0528 or 0533.

Special note: *The basis of premium for this classification is material finished (square feet).*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52126, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-12-011, § 296-17-52126, filed 5/27/97, effective 7/1/97.]

WAC 296-17-522 Classification 0601.

0601-00 Electrical wiring in buildings; electrical wiring, N.O.C.; Permanent flood lighting: Installation

Applies to contractors engaged in the electrical wiring of buildings, or in electrical wiring not covered by another classification (N.O.C.). Work contemplated by this classification is characterized as general electrical work, including installation, service or repair at residential and commercial settings. This classification includes electrical work which generally begins at the power meter and extends to the inside or outside of the building or its exterior setting, including, but not limited to, the installation of the breaker panel, fuses, plugs and snap switches, rough-in electrical work to include the stringing of insulated or encased wiring and mounting of plug-in or switch housing boxes, installation of plug-in, dimmer and switch units; installation of light fixtures, recessed canister and fluorescent lighting, track lighting, and other interior and exterior lighting fixtures, installation of ceiling fans, and the installation of residential and commercial appliances such as built-in microwaves, dishwashers, electric ovens and oven hoods. This classification also includes the installation of permanent flood lighting at stadiums and parks. Generally, flood lighting fixtures are mounted onto poles, buildings, or other structures; the erection or construction of those structures is not included in this classification.

This classification excludes the installation of overhead or underground power lines and poles by an electric utility company which is to be reported separately in classification 1301; the installation of overhead power lines by a nonelectric utility contractor which is to be reported separately in classification 0509; and the installation of underground power lines by a nonelectric utility contractor which is to be reported separately in classification 0107.

0601-07 Electrical machinery and auxiliary apparatus: Installation and repair

Applies to contractors engaged in the installation and repair of electrical machinery and auxiliary apparatus such as, but not limited to, heavy motors, generators, converters, transformers, compressors and power switchboard equipment. Generally, this type of work occurs at industrial or commercial plants, power plants, or sites where large machinery is to be installed. Work contemplated by this classification includes extending insulator or encased wiring or cable from the power meter, breaker or control panel to the physical location where the machinery is to be installed, and incidental wiring of the machinery or auxiliary apparatus.

0601-08 Temporary floodlights or search lights: Erection

Applies to contractors engaged in the erection or set up of temporary floodlights away from the contractor's premises. Usually, these lights are mounted on a truck or trailer, then transported to the customer site or location where they are operated with use of a generator. Uses of temporary floodlights and searchlights include, but are not limited to, advertising grand openings or special sales at shopping malls, auto dealers, grocery and outlet stores, marking the location of special events such as carnivals or concerts, or at construction project sites.

This classification excludes the erection of permanent floodlight fixtures to poles, buildings or structures which is to be reported separately in classification 0601-00.

0601-15 Television cable: Installation service or repair in buildings by contractor

Applies to contractors engaged in the installation, service or repair of television cable in buildings. This classification includes the installation of television cable lines in residential and commercial buildings and includes the dropping of lines from the pole to the house, mounting of cable control panel boxes to the exterior of buildings, extending cable, mounting multiple line adapter units and relay switches, and affixing the cable end for hook-up to televisions and other stereo components.

This classification excludes the installation of underground or overhead television cable lines when performed by a television cable company which is to be reported separately in classification 1305; installation of underground television cable lines when performed by a nontelevision cable company contractor which is to be reported separately in classification 0107; and installation of overhead television cable lines from pole to pole by a nontelevision cable company contractor which is to be reported separately in classification 0509.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-522, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-522, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-522, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-522, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-522, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-522, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-522, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-522, filed 11/9/73, effective 1/1/74.]

WAC 296-17-523 Classification 0602.

0602-03 Elevators or elevator door bucks: Installation, service and/or repair

Applies to contractors engaged in the installation, service and/or repair of freight or passenger elevators and elevator door bucks in private residences and commercial buildings or structures. Generally, the process begins after the elevator shaft has been erected, to include, but not be limited to, the installation of elevator units, doors, door bucks, cables and hoisting systems, motors, and electrical apparatus and wiring in connection with operation of the elevator.

This classification excludes the installation or repair of escalators and industrial machinery which is to be reported separately in classification 0603, and the erection of temporary construction elevators as part of a construction project which is to be reported separately in the classification applicable to the phase of construction being supported.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-523, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-523, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-523, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-523, filed 11/9/73, effective 1/1/74.]

WAC 296-17-524 Classification 0603.

0603-00 Machinery: Installation, service and/or repair, N.O.C.; Millwright work, N.O.C.

Applies to contractors engaged in the installation, service and/or repair of heavy machinery or equipment at a customer's location which is not covered by another classification (N.O.C.). Millwright work and the service or repair of engines and gas machines is also included. A millwright is a technician who specializes in installing and repairing industrial machinery. Typical customers include, but are not limited to, wood, metal and plastic manufacturing plants, fuel refineries, and mills. Types of machinery installed and repaired includes, but is not limited to, escalators, conveyor systems, printing presses, lathes, mill saws, dairy equipment and wind machines. (Store operations of dairy equipment/supply dealers or wind machine dealers are to be reported separately in classification 6407.) Work contemplated by this classification includes, but is not limited to, the pouring of a concrete pad on which the machinery will be installed, cutting and welding of brackets and mountings, assembling component parts, any incidental electrical connections needed to complete the installation, and calibrating the controls and testing the machinery's operation when done by employees of an employer having operations subject to this classification. Placement of heavy machinery must often be done with cranes or by rigging hoists. This classification also includes the dismantling and removal of machinery and equipment covered by this classification.

0603-05 Dynamos, electrical generators and turbines: Installation, service and/or repair

Applies to contractors engaged in the installation, service and/or repair of dynamos, electrical generators and turbines at a customer's location. A dynamo is a generator of direct electrical current; a turbine is a mechanism that converts moving fluid into mechanical power. Customers include, but are not limited to, electrical utilities, manufacturing plants, mills, and telecommunications companies. Work contemplated by this classification includes, but is not limited to, preparation of a concrete pad on which the machinery will be installed, cutting and welding of brackets and mountings, assembly of component parts if necessary, any incidental electrical connections needed to complete the installation, and calibrating and testing the machinery's operation when done by employees of an employer having operations subject to this classification. Placement of heavy machinery must often be done with cranes or by rigging hoists. Also included is the dismantling and removal of dynamos, generators and turbines.

This classification excludes the installation of underground overhead power lines and poles by an electric utility company which is to be reported separately in classification 1301; the installation of overhead power lines by a nonelectric utility contractor which is to be reported separately in classification 0509; and the installation of underground power lines by a nonelectric utility contractor which is to be reported separately in classification 0107.

0603-07 Industrial plant maintenance by contractor

Applies to contractors engaged in maintaining, repairing and installing machinery on a long-term contract basis for customers at the customers' location. Customers include, but are not limited to, manufacturing or chemical plants, petroleum refineries, food processing plants and mills. Work contemplated by this classification includes all routine maintenance and repair of a customer's equipment such as, but not limited to, cleaning, oiling and regularly scheduled maintenance and replacement of machinery or machinery parts, equipment and other mechanical installations that are part of

the customer's building when done by employees of an employer having operations subject to this classification.

0603-08 Metal playground equipment, portable bleachers or stages, above ground swimming pools: Installation, dismantling, and/or repair

Applies to contractors engaged in the installation, dismantling, and/or repair of metal playground equipment, portable bleachers or stages, and above ground swimming pools. Playground equipment includes, but is not limited to, swings, monkey bars, merry-go-rounds, and slides. Work contemplated by this classification for the erection of playground equipment and portable bleachers or stages includes boring holes in the ground (usually with an auger) into which the various pieces of equipment will be set in concrete, any incidental cutting, welding, drilling and bolting of the tubular steel components which are usually from one to four inches in diameter, and fastening on the chains, swings, handlebars, sliding surface, platforms, bench seats, or other components. Activities in the installation of above ground pools are similar. This classification also includes the application of any finish material or paint when done by employees of an employer having operations subject to this classification.

This classification excludes the installation of wood playground equipment which is to be reported separately in classification 0516.

0603-09 Commercial equipment: Installation, dismantling, service, and/or repair

Applies to contractors engaged in the installation, dismantling, service, and/or repair of commercial equipment such as, but not limited to, commercial dishwashing units, bakery and restaurant ovens, stoves, grills, sanitizers, steam tables, car washing equipment, commercial laundry equipment, electric entry doors, dry cleaning equipment, gas pumps, or parimutuel totalizer equipment at horse racing facilities. Work contemplated by this classification includes, but is not limited to, placing and leveling the equipment, any assembly of component parts if necessary, connecting or bolting to the wall or floor, making any necessary incidental plumbing or electrical connections, and calibrating and testing the equipment when done by employees of an employer having operations subject to this classification. Some pieces of equipment in this classification may be large enough that they must be moved and positioned with hoists or cranes. Also included is the dismantling and removal of commercial equipment.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-524, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-524, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-524, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-524, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-524, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-524, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-524, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-524, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-524, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-524, filed 11/9/73, effective 1/1/74.]

WAC 296-17-525 Classification 0604.

0604-04 Scrap metal dealers or processors: Collecting, sorting and reduction of scrap metal

Applies to establishments engaged as dealers or processors of ferrous and nonferrous scrap metals for resale. Ferrous metals are primarily composed of iron or steel. Nonferrous metals include, but are not limited to, aluminum, brass, bronze, copper, lead, magnesium, pewter, tin, and zinc. If the dealer collects scrap metals from mills, foundries, refineries, or fabricators, they usually leave dumpster containers with the "customer" and pick up the full containers with their own trucks. If they buy scrap from independent collectors, the collectors bring the metals to the dealer's yard. In either case, the metal is weighed, graded, and sorted by type at the dealer's yard. It may be resold as is to customers who occasionally come to the yard; however, it is usually further processed and prepared for shipping to industrial customers. Shipping is done by rail, ship, or common carrier. As an incidental service, scrap dealers may also buy back recyclable goods such as, but not limited to, aluminum cans, glass, and batteries; this activity is included within the scope of this classification when performed by employees of employers subject to this classification. Processing includes one or more of the following operations: Cutting off impure metals or plastic parts with acetylene cutting torches; cutting scraps into smaller pieces with alligator shears or cutting torches; slicing heavier scrap metals or flattened automobiles with hydraulic guillotine shears; crushing auto bodies with crushers; ripping apart large pieces of scrap with shredders; separating metal from rubber, plastic, wood, dirt, and other materials with magnetic separators; removing insulated coverings from copper wire with wire choppers, and compressing scraps into bales with balers. Additional machinery includes, but is not limited to, conveyors, scales, forklifts, tractor-trailer trucks, cranes, electromagnets or grapples, front end loaders, and grinders. Because of recent EPA regulations, instead of melting down metals in their own furnaces, scrap dealers usually ship it to foundries or steel mills that conform with the regulations. However, reduction of metals is included within the scope of this classification if performed by an establishment subject to this classification.

This classification excludes dealers that sell new iron, steel, wire or cable which are to be reported separately in classification 2004; automobile or truck wrecking or dismantling establishments which are to be reported separately in classification 1104; and recycle, collection, and receiving stations (known as buy-back stations) for rags, bottles, paper, and metal containers which are to be reported separately in classification 2102.

Special note: Scrap metal dealers vary widely in the type of metals or usable items they buy and sell. Often the term "junk yards" is used to describe dealers who carry a sizable inventory of used goods, such as, but not limited to, bottles, rags, paper, appliances, nails, rubber, in addition to scrap metal in varying amounts. It is the activity of the business that must be considered when determining the classification, rather than how the business refers to its activities. Receiving/Buy-back stations for recyclable items in classification 2102 are different from dealers in classification 0604. Receiving stations buy back only recyclable items which they do not process, other than condensing the materials into bales, and selling it to others.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-525, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-525, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-525, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-525, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-525, filed 11/9/73, effective 1/1/74.]

WAC 296-17-526 Classification 0606.

0606-01 Vending, coin-, or token-operated machines: Installation service and/or repair

Applies to establishments engaged in the installation, service and/or repair of vending, coin- or token-operated machines. Operations contemplated by this classification include, but are not limited to, delivering machines to desired location, unloading and setting up machines, servicing machines, collecting money, repairing machines, and restocking product into machines. Coin-operated machines include pay telephone booths, weight machines, juke boxes, change makers, pull tabs, slot machines, and similar gaming devices. Vending machine products include, but are not limited to, soft drinks, candies, sandwiches, stamps, cigarettes, frozen desserts, coffee, and personal hygiene products. This classification also includes the preparation of products such as, but not limited to, salads, sandwiches, cookies, and deserts, and honor snack food services when performed by employees of an employer subject to this classification.

This classification excludes honor snack services operated independently from, and not in connection with, coin-operated vending machine services which are to be reported separately in classification 1101; and the installation of parking meter units which is to be reported separately in classification 0105.

0606-02 Fire extinguisher and fire safety equipment: Sales and service

Applies to establishments engaged in the sales and servicing of fire extinguishers and related safety equipment. Operations contemplated by this classification include, but are not limited to, retail and wholesale store operations, field testing services, recharging services, and related safety training. Establishments subject to this classification routinely sell a variety of home and commercial type fire extinguishers, protective clothing, gloves, and hats, specialty shoes, smoke and fire alarms, and first aid kits. Fire extinguisher sales and service companies may also carry other safety items such as traffic cones, construction and speed signs.

0606-03 Money collecting service of coin-operated and vending machines

Applies to establishments engaged in the removal and/or replacement of money into coin-operated machines. Operations contemplated by this classification are limited to the collection and replenishing of coins in coin-operated or vending machines. This classification also applies to replenishing currency in automated teller machines (cash machines) and removal of coins from parking meters and pay telephones.

This classification excludes the servicing of machines, placement of products into machines for sale, installation of machines, or any product preparation, which is to be reported separately in the applicable classification; installation of free standing automated teller machines which is to be reported separately in classification 0607; establishments engaged in the construction of structures which house automated teller machines, such as those found in parking lots of shopping centers, which are to be reported separately in the applicable construction classifications.

0606-12 Coin- or token-operated amusement devices in stores or shopping malls, N.O.C.: Installation, removal, service and/or repair

Applies to establishments engaged in the placement and servicing of coin- or token-operated amusement devices, not covered by another classification (N.O.C.), within stores and shopping malls for use by the general public. Operations contemplated by this classification include, but are not limited to, the installation, service, repair, or removal of the devices, such as, but not limited to, video games, pinball machines, carrousels and small amusement rides for children. Establishments subject to this classification generally are not involved in the operations of arcades or amusement rides. If an establishment subject to this classification also operates a video or amusement arcade, such operations may be reported separately in classification 6406 provided all the conditions of the general reporting rules covering the operation of a secondary business have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-526, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-526, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-526, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-526, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-526, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-526, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-526, filed 11/9/73, effective 1/1/74.]

WAC 296-17-527 Classification 0607.

0607-11 Household appliances: Installation, service and/or repair by nonstore service or repair company; dealers of used household appliances

Applies to establishments engaged in the installation, service and/or repair of electrical or gas household appliances and to dealers of used electrical or gas household appliances. Many establishments covered by this classification have small retail store operations where they offer reconditioned or second hand appliances for sale, a parts department, and an area where appliances brought into the shop are repaired. Although this classification deals primarily with service away from the shop, the store, parts department and shop operations are included within the scope of this classification. The term "household appliances" includes, but is not limited to, stoves, ovens, ranges, dishwashers, refrigerators, trash compactors, television sets, residential type garage door openers, washing machines, and clothes dryers. This classification also applies to the installation, service or repair of automated teller machines. Repair services provided by establishments subject to this classification may also include related smaller appliances such as video players, portable television sets, stereo systems, microwave and toaster ovens, blenders, coffee makers and mixers. The *servicing* of water softening systems, coffee and juice machines, and beer taps is also included in this classification.

This classification excludes dealers of new household appliances who are to be reported separately in classification

6306; installation, service, and/or repair of commercial appliances such as those used in laundries, bakeries, and restaurants which is to be reported separately in classification 0603; installation, service, and repair of commercial garage doors and openers which is to be reported separately in classification 0603; installation of water softening systems which is to be reported separately in classification 0306; and small table top or counter top appliance stores which are to be reported separately in classification 6406.

Special note: Classification 0607 is distinguishable from classification 6306-02 operations in that appliance stores covered in classification 6306-02 are engaged primarily in the sales of new appliances. Although classification 6306 includes repair of appliances, most repairs are related to warranty work and represent a minor part of the business. By contrast, the repair of appliances in classification 0607 is the primary activity of the business.

0607-16 Television antenna or satellite dish: Installation, removal, service and/or repair

Applies to establishments engaged in the installation, removal, service and/or repair of television antennas or satellite dish receiving units. Operations contemplated by this classification are limited to rooftop installation of television antennas or ground or rooftop-mounted satellite dish reception units. Establishments covered by this classification will generally employ technicians and installers to install systems and trouble shoot reception problems. Equipment is limited primarily to delivery trucks and vans, ladders, and small power and hand tools.

This classification excludes installation of larger commercial broadcasting or receiving antennas or dish units such as those found in television and radio broadcast stations which is to be reported separately in classification 0508; and establishments engaged in the sale of new console type and big screen televisions who also sell and install antennas which are to be reported separately in classification 6306.

0607-17A Safes or vaults, private mail boxes, or safe deposit boxes: Installation, removal, service and/or repair

Applies to contractors engaged in the installation, removal, service and/or repair of all types of safes or vaults regardless of size or application, private mail or postal boxes, or safe deposit box units within buildings. Safes and vaults are found in businesses such as, but not limited to, banks, jewelry stores, rare coin and stamp stores, grocery stores, and gasoline service stations, as well as in private residences. Services contemplated by this classification include, but are not limited to, safe opening services.

0607-17B Lock sets and/or dead bolt locks: New installation

Applies to the *new installation* of lock sets and/or dead bolt locks on buildings or structures by contractor or by employees of a locksmith. The term new installation applies to installing a lock set (locking doorknob) or a dead bolt where none previously existed. The process consists of measuring and marking where the unit is to be placed on the door, boring holes into the door to accept the lock set or dead bolt lock, and installing the lock set unit using a power drill and basic hand tools.

This classification excludes the installation of a *replacement* lock set or dead bolt lock unit by employees of a locksmith, and locksmith store operations which are to be reported separately in classification 6309.

0607-18A Window/door blinds, shades, curtains and drapes: Installation

Applies to contractors and employees of store operations who are engaged in the installation of indoor or outdoor window coverings, such as, but not limited to, blinds, shades, screens, exterior roll shutters and draperies or curtains, but does not include awnings. The process consists of marking the location of covering on the frame or opening, securing brackets or hardware, rods and poles, and installing the covering.

This classification excludes the installation of window and door awnings which is to be reported separately in the applicable classification, and the manufacture of coverings which is to be reported in the applicable classification.

Special note: Care should be taken when considering the assignment of a store classification to an establishment engaged in the installation of coverings to verify that a store exists. It is common for establishments subject to this classification to have show rooms to help customers visualize covering products available for sale. These establishments have little or no product available for immediate sale, as most items are special order from the manufacturer. A bona fide window/door covering store will have a large assortment of coverings, as well as related home interior products such as, but not limited to, pillows, small rugs, and accent pieces, readily available for sale to customers.

0607-19 Advertising or merchandise display: Set up or removal within buildings by nonstore employees

Applies to contractors engaged in the set up or removal of advertising or merchandise displays within buildings for retail or wholesale store customers. Operations contemplated by this classification will vary from seasonal panoramas with extensive carpentry, painting, and art work to dressing mannequins to be displayed in store windows. Classification 0607 also includes employees of a manufacturer and manufacturer's representatives who are involved in the setting up of these displays.

This classification excludes employees of store operations engaged in setting up displays who are to be reported separately in the applicable store classification as this is a common store activity.

0607-21 Meat slicer or grinder: Installation, service and/or repair

Applies to contractors and employees of equipment manufacturers engaged in the installation service and/or repair of meat cutting, slicing, or grinding equipment within stores, restaurants, or processing plants. Repair may be performed at the customer's location or in a shop operated by an employer subject to this classification. This classification includes repair shops, field technicians, installers, and warehouse or parts department employees.

Special note: Establishments subject to this classification generally do not have store operations. Equipment is generally ordered from the manufacturer or distributor and shipped to the customer's location where it will be installed. In the event that an establishment subject to this classification has a store operation it is included within classification 0607.

0607-22 Protective bumpers: Installation

Applies to contractors engaged in the installation of protective bumpers on structures such as, but not limited to, store loading docks for freight or cargo. Operations contemplated by this classification are limited to measuring the dock to be fitted with a rubber bumper, finish cutting or otherwise fabricating the rubber pieces to fit the required application, and fastening the dock bumper with the use of hand tools. Dock bumpers are made of rubber from recycled tires or similar pliable materials.

This classification excludes the manufacture of loading dock bumpers which is to be reported separately in the applicable manufacturing classification.

0607-23 Cellular phone systems or audio components: Installation in vehicles, service and repair

Applies to establishments engaged in the installation of cellular phone systems and/or audio components in vehicles. Audio components include, but are not limited to, radios and stereo systems, speakers and amplifiers, alarm systems, television units, antennas, two-way radio systems. This classification applies to installation employees of stores that sell products as well as to auto service centers that specialize in the installation of products covered by this classification.

This classification excludes retail and wholesale store operations which are to be reported separately in the applicable store classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-527, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-527, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-527, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-527, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-527, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-527, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-527, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-527, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-527, filed 11/9/73, effective 1/1/74.]

WAC 296-17-52701 Classification 0608.

0608-01 Electrical alarm systems: Installation, service, and/or repair

Applies to contractors engaged in the installation, service, and/or repair of electrical alarm systems such as, but not limited to, burglar, smoke, security, and fire, within buildings. Operations contemplated by this classification include, but are not limited to, installing low voltage wiring for security units, connecting control panels, installing motion or magnetic sensors on doors, windows, and hallways, installing security cameras and recording equipment, and installing smoke and fire alarm units on walls or ceilings. This classification includes both field and shop operations.

0608-02 Intercom or audio call box: Installation, service, and/or repair

Applies to contractors engaged in the installation, service, and/or repair of all types of building or plant audio communication systems such as, but not limited to, intercoms, sound and paging systems in stores and shopping malls, and call box units in factories and refineries. Operations contemplated by this classification include, but are not limited to, installation of low voltage wiring, installation of audio and speaker units and connecting control units. This classification includes both field and shop operations.

0608-04 Telephone and/or telephonic equipment - prewire by contractor: Installation, service, and/or repair

Applies to contractors engaged in the installation, service, and/or repair of all types of telephone and/or telephonic equipment within residences, office buildings, stores and shopping malls, factories, refineries or other types of buildings. Operations contemplated by this classification include, but are not limited to, installation of low voltage wiring, installation of telephone units, and connecting control units. This classification includes both field and shop operations, as well as contractors engaged only in prewiring buildings for telephone and computer systems, but who do not install equipment.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-52701, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-52701, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-52701, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-52701, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-52701, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-52701, filed 2/28/85, effective 4/1/85.]

WAC 296-17-528 Classification 0701.

0701-00 New dam construction: All operations in dam site area

Applies to contractors engaged in the construction of *new* dams only, and includes all operations in the dam site area. A dam is a barrier built across a waterway to control the flow or level of water. Work contemplated by this classification includes the construction of the foundation and substructure such as, but not limited to, earth and rock excavation; boring or tunneling; pile driving or shaft sinking; caisson work; erection of cofferdams; placement of reinforcing steel and rebar; setting and stripping of forms, false work (temporary forms and support structures), concrete distributing apparatus; erection of scaffolds; pouring and finishing concrete; and the placement of gates, turbines, control towers and electrical wiring apparatus. This classification also includes the incidental construction of fish ladders as part of the new dam construction project.

This classification excludes all other construction, service, or repair work done as part of an existing dam which is to be reported separately in the classification applicable to the phase of construction work being performed. For example, the inspection of the foundation by divers is to be reported separately in classification 0202; the patching of cracks in the dam is to be reported separately in classification 0518.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-528, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-528, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063,

§ 296-17-528, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-528, filed 11/27/85, effective 1/1/86; Order 76-36, § 296-17-528, filed 11/30/76; Order 73-22, § 296-17-528, filed 11/9/73, effective 1/1/74.]

WAC 296-17-529 Classification 0803.

0803-00 Cities and towns - all other employees

Applies to employees of cities or towns who perform manual labor, or who supervise a work crew performing manual labor such as custodial or maintenance, and machinery or equipment operators. This classification includes administrative personnel such as engineers, safety inspectors, and biologists, who have field exposure, and also includes store and stock clerks. For purposes of this classification, field exposure is defined as any exposure other than the normal travel to a work assignment, such as an auditor or social worker would encounter.

This classification excludes municipal power districts which are to be reported separately in classification 1301; municipal transit systems which are to be reported separately in classification 1404; law enforcement officers who are to be reported separately in classifications 6905 and 6906, as appropriate; fire fighters who are to be reported separately in classification 6904; volunteers who are to be reported separately in classification 6901; and clerical office and administrative employees who are to be reported separately in classification 5305.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-529, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-529, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-529, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-529, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-529, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-529, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-529, filed 12/1/77; Order 75-38, § 296-17-529, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-529, filed 11/9/73, effective 1/1/74.]

WAC 296-17-532 Classification 0901.

0901-00 Ship building and/or repair, N.O.C.

Applies to establishments engaged in the building and/or repair of ships not covered by another classification (N.O.C.) and to the dismantling of hulls. Ships contemplated by this classification are commercial vessels such as, but not limited to, military vessels, tugs, scows, barges and recreational vessels over 65 feet. This classification includes shop operations.

This classification excludes wood boat building and repair which is to be reported separately in classification 2903; sheet aluminum boat building which is to be reported separately in classification 3404; fiberglass boat building which is to be reported separately in classification 3511; plate aluminum boat building which is to be reported separately in classification 5209; and boat dealers, marinas, and boat house operations including repair centers which are to be reported separately in classification 3414.

Special note: This classification is seldom assigned as most work would be covered by LHWCA.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-532, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-532, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-532, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-532, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-532, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-532, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-532, filed 11/9/73, effective 1/1/74.]

WAC 296-17-534 Classification 1002.

1002-00 Sawmills: Operation and maintenance

Applies to establishments engaged in the operation and maintenance of a sawmill. Sawmills receive raw logs which they usually store temporarily in their yard before cutting them into rough and finished lumber. This classification includes operations such as, but not limited to, loading raw logs onto the conveyor or log slip; sawing logs with a variety of head, cut-off, circular or band saws; grading and sorting lumber; drying green (wet) lumber; and the stacking and storing of lumber. The raw logs are cut into rough lumber, such as cants and blocks, or into finished lumber, such as posts, planks or boards.

This classification excludes all operations conducted in the woods, such as logging or use of a portable sawmill, which is to be reported separately in classification 5001, and establishments engaged *only* in the manufacturing of wood, veneer, veneer products, or lumber remanufacturing which is to be reported separately in the classification applicable to the manufacturing being performed.

1002-08 Shake and shingle mills - automated process

Applies to establishments operating an automated shake and shingle mill which manufacture shakes, shingles and/or ridge caps using automated processes. For purposes of this classification, automated processes refers to shake and shingle mills equipped with automatic feeders on all saws, adjustable packing and cutting stations, and fully automatic systems for conveying material to work stations. All equipment must be equipped with automatic shut off switches. Within a shingle mill the operation of a trim saw must be performed by an individual as a separate function from that of the shingle saw operator (shingle sawyer is not to perform both functions). Shake splitters must be equipped with a gauge control mechanism which permits the operator to automatically set the thickness of the cut. Conveyor systems must have dual controls to allow the deck man and sawyer the ability to control incoming material to the work station.

Block mills must be equipped with an automated pallet dump to eliminate the handling of material to the sawyer work station or an adjustable scissor lift adjacent to the shingle saw or shake splitter. Blocked wood purchased by mills must be contained in pallets prior to entering the mill yard or premises. Log mills must be equipped with a fully mechanized log slip (used to move logs into the deck area), log levelers, stabilizers, and lifters must be present in the deck area, automatic deck cut-off saw, live deck for moving material from the deck to the splitting area and overhead mounted splitters. Trim saws, also referred to as clipper saws, must be equipped with a laser guide or quartz light. This lighting reveals to the operator where its saw blade is in relationship to the material being processed.

For purposes of this classification, the following terms or words shall be given the meanings below:

Automatic deck or cut-off saw: A large saw, usually circular, used to trim logs to a specified length (rounds) before they enter a manufacturing plant.

Clipper saw: A machine used to make shingle edges parallel.

Shingle: Roofing or siding material having sawn faces and backs, are of a standard thickness at the butt end and tapered finish at the other end.

Shake: Roofing or siding material having at least one surface with a natural grain textured split surface.

Live deck: A chain driven platform located in the same proximity as the deck saw and is used to convey cut rounds from the cutting area to the splitting area.

Log stabilizer: A levered device adjacent to the deck saw used to hold the log steady while it is being cut.

Log slip: A chain driven conveyor used to move logs into the deck area.

Laser or quartz guide light: An overhead mounted light above a saw that illuminates that portion of a work surface where the saw blade will pass or make a cut.

Log leveler: A levered device adjacent to the deck saw used to level a log automatically.

Overhead splitter: A ceiling mounted hydraulic, air, or electrically operated apparatus with wedge shaped end that is used to split log rounds into block wood when activated by the splitterman.

Shingle saw: A machine used to make shingles.

Shake splitter: A machine used to split blocks into shake blanks.

Shake saw: A machine used to saw shake blanks into a finished wedged shaped product.

This classification excludes all operations conducted in the woods, such as logging or the cutting and splitting of shake or shingle bolts, which are to be reported separately in classification 5001.

Special notes: Shake and shingle mills not meeting all the conditions as set forth above shall be reported separately in classification 1005 "shake and shingle mills, N.O.C."

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-534, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-534, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-01-013 (Order 89-21), § 296-17-534, filed 12/8/89, effective 1/8/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-534, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-534, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-534, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-534, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-534, filed 11/13/80, effective 1/1/81; Order 77-27, § 296-17-534, filed 11/30/77, effective 1/1/78; Order 76-36, § 296-17-534, filed 11/30/76; Order 73-22, § 296-17-534, filed 11/9/73, effective 1/1/74.]

WAC 296-17-535 Classification 1003.

1003-02 Dry kiln operations

Applies to establishments engaged in kiln drying of wood as a service for customers in the wood products industry. They may also purchase and dry wood themselves for later sale to a wood product manufacturer. Operations contemplated by this classification include, but are not limited to, receiving green lumber or logs, peeling (mechanized or manual), any incidental machining or turning, layering on a trolley (with spacers in between to allow for air circulation), drying in the heated kiln, and the incidental application of preservative, fire retardant, or insecticide treatments, storing, and delivery. Preservatives may be oil or water based and may be applied through a heated, pressurized vacuum process in an autoclave, by surface application (spraying, brushing, dipping) or by soaking in tanks. Machinery and equipment includes, but is not limited to, log handling and trimming machinery, kilns, boilers that heat the kilns, autoclaves, storage tanks, trolley cars, fork lifts, hand tools and delivery trucks.

This classification excludes dry kiln operations that are part of a wood, veneer or lumber product manufacturing or remanufacturing operation which are to be reported separately in the classification applicable for the operation being performed; all operations conducted in the woods, such as the felling of timber, which are to be reported separately in the applicable logging classification, and work conducted away from the shop or yard, except delivery, which is to be reported separately in the classification applicable for the work being performed.

1003-03 Creosote works; pile and pole treating

Applies to establishments engaged in treating wood poles with creosote or other chemicals to inhibit deterioration. Poles produced by this type of business are intended for use as utility line poles, supports for bridges and trestles, or piles to be driven into the ground as part of the support for a pier or other structure. Operations contemplated by this classification include, but are not limited to, receiving logs, storing, seasoning (either by air or kiln drying), peeling (mechanized or manual), any incidental machining and turning (which may include cutting material into ties or cross arms), the application of creosote or other chemical preservative, and pick up and delivery. Preservative may be applied to seasoned wood through a heated, pressurized vacuum process in an autoclave, by surface application (spraying, brushing, dipping), or soaking in tanks. Machinery and equipment includes, but is not limited to, log handling/trimming/cutting machinery, kilns, boilers that heat the kiln, autoclaves, storage tanks, trolley cars for use in the kiln, fork lifts, hand tools, and trucks.

This classification excludes all operations conducted in the woods, such as the felling of timber, which are to be reported separately in the applicable logging classification, and work conducted away from the shop or yard, except delivery, which is to be reported separately in the classification applicable for the work being performed.

1003-04 Pole yards

Applies to establishments engaged in producing wood poles to a customer's specifications or for their own resale. These poles are intended for a variety of uses and are finished to varying requirements. Work contemplated by this classification includes, but is not limited to, receiving logs, storing, seasoning (either by air or kiln drying), peeling (mechanized or manual), incidental machining or turning (which may include cutting some material into cross arms, cutting and boring), the application of creosote or other chemical preservative, and pick up and delivery. Preservative may be applied to seasoned wood through a heated, pressurized vacuum process in an autoclave, by surface application (spraying, brushing, dipping), or soaking in tanks. Machinery and equipment includes, but is not limited to, log handling/trimming/cutting machinery, kilns, boilers that heat the kiln, autoclaves, stor-

age tanks, trolley cars for use in the kiln, fork lifts, hand tools, and trucks.

This classification excludes all operations conducted in the woods, such as the felling of timber, which are to be reported separately in the applicable logging classification, and work conducted away from the shop or yard, except delivery, which is to be reported separately in the classification applicable for the work being performed.

1003-05 Masts and spars yards

Applies to establishments engaged in producing wood masts and spars. Masts and spars are the main and secondary supports, respectively, for sails and running rigging on sailing vessels. These businesses may also produce poles for other uses which may need to be more precisely shaped and finished than those produced in 1003-04. Work contemplated by this classification includes, but is not limited to, receiving logs, storing, seasoning (either by air or kiln drying), peeling the logs (mechanized or manual), machining and turning to size (which may include cutting and boring holes), application of chemical preservative, sanding if necessary, and pick up and delivery. The application of wood finish is also included when performed by employees of an employer having operations subject to this classification. Preservative may be applied to seasoned wood through a heated, pressurized vacuum process in an autoclave, by surface application (spraying, brushing, dipping), or soaking in tanks. Machinery and equipment includes, but is not limited to, log handling/trimming/cutting machinery, kilns, boilers that heat the kiln, autoclaves, storage tanks, trolley cars for use in the kiln, fork lifts, wood finishing equipment, hand tools, and trucks. This classification includes the production of finished logs that will be used in the manufacture of log houses or cabins.

This classification excludes all operations conducted in the woods, such as the felling of timber, which are to be reported separately in the applicable logging classification, and work conducted away from the shop or yard, except delivery, which is to be reported separately in the classification applicable for the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-535, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-535, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-535, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-535, filed 11/30/77, effective 1/1/78; Order 74-40, § 296-17-535, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-535, filed 11/9/73, effective 1/1/74.]

WAC 296-17-53501 Classification 1004.

1004-00 Log storage and log sorting yards

Applies to establishments engaged in the operation of log storage or sorting yards. The logs may be owned by the yard, for later sale, or stored for others. Operations contemplated by this classification include, but are not limited to, loading/unloading log trucks, grading logs by type or size, stacking logs, recordkeeping, security and routine maintenance of grounds and equipment.

This classification excludes all trucking outside of the yard which is to be reported separately in classification 1102; log storage or sorting yards operated by a logging company at a side or a remote location, which are considered an inclusion and are to be reported separately in classifications 5001 or 5005 as applicable; and log storage yards operated in conjunction with a pole yard, log drying, or wood products manufacturing business which are to be reported separately in the classification applicable to the business.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53501, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-53501, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-53501, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-53501, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-53501, filed 11/13/80, effective 1/1/81.]

WAC 296-17-53502 Classification 1005.

1005-02 Shake and/or shingle mills

Applies to establishments engaged in the operation and maintenance of a shake and/or shingle mill. Work contemplated by this classification includes receiving raw logs which they cut and split into shakes, shingles and ridge caps. A shake is a roofing or siding material having at least one surface with a natural grain textured split surface. A shingle is a roofing or siding material having sawn faces and backs and are of a standard thickness at the butt end and tapered finish at the other end. A ridge cap is produced from two pieces nailed together to form a "v" shape placed on the center line of a roof. Raw logs are temporarily stored in the yard. This classification may include operations such as, but not limited to, loading raw logs onto a conveyor or log slip, cutting the log into rounds, splitting the rounds into blocks, feeding the blocks through a shake or shingle saw, grading and sorting, bundling, stacking and storing of finished shakes, shingles and/or ridge caps. Machinery and equipment includes, but is not limited to, log loaders, conveyors, log slips, overhead splitters, cut-off saws, shake saws, shingle saws, taper saws, head saws, pallet presses, and forklifts.

This classification excludes establishments engaged exclusively in the manufacturing of ridge caps or shims which are to be reported separately in classification 2903; automated shake and shingle mills which are to be reported separately in classification 1002 provided the entire process to produce shakes and shingles uses automated processes at the mill site, meets the requirements defined in WAC 296-17-534; and all operations conducted in the woods, such as logging or the cutting and splitting of shake or shingle bolts, which are to be reported separately in the applicable logging classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53502, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-53502, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-53502, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-53502, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-53502, filed 11/30/81, effective 1/1/82.]

WAC 296-17-53504 Classification 1007.

1007-08 Geophysical exploration, N.O.C.

Applies to contractors engaged in geophysical exploration, with no core drilling, and without seismatic detection, who are not covered by another classification (N.O.C.). The more common methods of geophysical exploration are gravitational, electric and magnetic. In the gravitational method, delicate pendulums and torsion balances capable of detecting differences in the gravitational pull of the earth at various places enable the geologist to tell where oil is likely to be found. There are two electrical methods, resistivity and

inductive. In the resistivity method, measurements are taken on an ohmmeter, which indicate the resistivity of the subsurface. The inductive method is somewhat comparable, but instead of determining the resistivity of the subsurface formations, the conductivity is measured enabling the geologist to determine the character of the subsurface being studied. The magnetic method is accomplished by means of a highly developed form of magnetic dipping needle with a telescope magnifier. The magnetic attraction exerted by magnetic rocks and formations causes the needle to deflect from its horizontal plane, thereby enabling a geologist to develop contour maps with lines of equal magnetic attraction. This classification includes prospectors who may specialize in particular instrumentation such as electrical, gravity, magnetic or seismic. The prospector studies structure of subsurface rock formations to locate petroleum deposits; conducts research using geophysical instruments such as seismograph, gravimeter, torsion balance, and magnetometer, pendulum devices, and electrical resistivity apparatus to measure characteristics of the earth; computes variations in physical forces existing at different locations and interprets data to reveal subsurface structures likely to contain petroleum deposits; and determines desirable locations for drilling operations. This classification includes prospecting for mineral ores and the testing of soil for percolation when performed by employees of an employer subject to this classification.

This classification excludes core drilling and seismic geophysical exploration which are to be reported separately in classification 0103, and geophysical crews employed by oil companies who are to be reported in the classification applicable to the business.

Special note: When assigning classifications 1007-08, 4901-16 - Geologists, and 0103-10 - Seismic geophysical exploration, care must be taken to look beyond the word "geologist" to determine the actual nature of the activities being performed.

1007-09 Testing and inspecting of pipelines using radiographic or X-ray analysis process by contractor at industrial plants or construction sites

Applies to establishments engaged in the testing or inspecting of pipelines or conduits for others, provided the testing or inspecting is not performed in conjunction with the construction of the pipeline. This classification includes testing or inspecting involving radiographic or X-ray analysis processes such as the X-raying of containers, inspecting of utility lines, and the drawing of oil samples on-site when performed by employees of an employer subject to this classification. Classification 1007-09 is assigned primarily to field activities.

This classification excludes testing or inspecting done in conjunction with construction which is to be reported separately in the appropriate construction classification.

1007-15 Inspection and grading bureaus, N.O.C.; log scaling and grading bureaus; lumber inspection services; weigh scale attendants, N.O.C.; weather stations; rainmaking - no aircraft

Applies to establishments operating as *inspection and grading bureaus*, not covered by another classification (N.O.C.), including, but not limited to, those involved in inspecting and grading commodities such as logs, lumber, shingles, shakes, poles, and railroad ties. The commodity is examined and stamped with a grademark which indicates the grade, species, producer's name or number and other pertinent data. A certificate of inspection may be issued in lieu of a grademark. The purpose of the inspection is to grade, tally, and stamp only those products which meet certain required specifications and to cull those products which do not meet the established standards. *Log scaling and grading bureaus* measure the logs, and by applying log rule formulas, determine the net yield, usually expressed in board feet. A scale ticket containing descriptive data is attached to the end of the log. This classification also applies to *weigh scale attendants* not covered by another classification (N.O.C.), when the service is available to the general public, otherwise the weigh scale attendants are to be included in the basic classification of the business. This classification includes establishments engaged exclusively in such services as auto emission control testing, air flow balancing and testing, the balancing and testing of heating, ventilating and air conditioning systems, hydrostatic testing of such objects as boilers, tanks, pipes and fittings using compressed air or water pressure to detect leaks, the strength testing of building material such as, but not limited to, asphalt, concrete and steel; and the testing or inspecting of steel weldments. This classification also includes *weather stations* which observe and record weather conditions for use in forecasting, and which read weather instruments, including thermometers, barometers, and hygrometers to ascertain elements such as temperature, barometric pressure, humidity, wind velocity, and precipitation. Weather data is transmitted and received also from other stations. A fully automated (computerized) weather station can be reported under classification 4904. This classification also covers rainmaking without the use of aircraft.

Special note: Classification 1007, classification 5001, and classification 5004, shall not be assigned to the same business unless the operations described by these classifications are conducted as separate and distinct businesses and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

1007-16 Foresters *(to be assigned only by reforestation underwriter)*

Applies to foresters engaged in forest management for others. Foresters may plan and direct forestation or reforestation projects, map forest areas, estimate standing timber and future growth, or manage timber sales. Foresters also may plan cutting programs to assure continuous production of timber, and determine methods of cutting and removing timber with a minimum of waste and environmental damage. They may plan and design forest fire suppression and fire-prevention programs, plan and design construction of fire towers, trails, roads and fire breaks and may also plan and design projects for control of floods, soil erosion, tree diseases, and insect pests in forests. Foresters may specialize in one aspect of forest management.

This classification excludes manual labor or direct supervision of manual labor.

Special note: Classification 1007, classification 5001, and classification 5004 shall not be assigned to the same business unless the operations described by these classifications

are conducted as separate and distinct businesses and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

1007-18 Foresters and timber cruisers - scientific tree, forestry, and watershed studies ***(to be assigned only by reforestation underwriter)***

Applies to establishments engaged in scientific tree studies for others. Scientific tree studies are research oriented; random sample plots are measured and data such as the size of trees, species, disease and insect or animal damage, and seedling mortality, are recorded. Plots are maintained where each tree is tagged, its genealogy recorded, and growth statistics entered. A scion (a detached living shoot or twig) may be grafted onto a root stock and detailed records maintained of its genealogy and growth. Other data, such as fertilizers used, also may be maintained. These test plots are sometimes referred to as progeny plots or progeny studies. This classification includes scientific studies of watersheds or watershed restoration which involves the evaluation of slopes, road systems, streams and the entire ecosystem (an ecological community with its physical environment, regarded as a unit). This classification also includes precommercial thinning layouts or pruning inspections to determine if an area is ready for thinning or pruning.

This classification excludes manual labor or direct supervision of manual labor.

Special note: Classification 1007, classification 5001, and classification 5004 shall not be assigned to the same business unless the operations described by these classifications are conducted as separate and distinct businesses and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

1007-19 Timber cruisers ***(to be assigned only by reforestation underwriter)***

Applies to timber cruisers engaged in cruising timber land to estimate the volume and quality of a timber stand through an on-site visual inspection for others. A timber cruiser collects data concerning forest conditions for appraisal, sales, administration, logging, land use, and forest management planning. A forest area is traversed on foot in an established pattern and sampling techniques applied. The height and diameter of each tree in a test site is recorded as are defects such as rot and bends, to estimate the useable wood in each tree. From the data collected a summary report is prepared giving the timber types, sizes, condition and outstanding features of an area, such as existing roads, streams, and communication facilities. Trees may be marked with spray paint to denote trail, boundary, or for cutting.

This classification excludes manual labor or direct supervision of manual labor.

Special note: Classification 1007, classification 5001, and classification 5004 shall not be assigned to the same business unless the operations described by these classifications are conducted as separate and distinct businesses and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

1007-20 Foresters and timber cruisers - tree auditing ***(to be assigned only by reforestation underwriter)***

Applies to establishments engaged in tree auditing for others. This service is generally associated with new plantations and is the process of evaluating the quality and the rate of planting of new trees, as well as surveying newly planted sites on a periodic schedule to determine the survival rate.

This classification excludes tree auditing services when planting is in process, which is to be reported separately in classification 5004, and manual labor or direct supervision of manual labor.

Special note: Classification 1007, classification 5001, and classification 5004 shall not be assigned to the same business unless the operations described by these classifications are conducted as separate and distinct businesses and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

1007-21 Environmental and ecological surveyor services, N.O.C.

Applies to establishments engaged in providing environmental and ecological surveying services not covered by another classification (N.O.C.) for others. Environmental or ecological surveying firms typically serve as consultants to industrial or commercial enterprises, governmental agencies or private citizens. Environmental engineer is a term applied to engineering personnel who apply knowledge of chemical, civil, mechanical, or other engineering disciplines to preserve the quality of life by correcting and improving various areas of environmental concern, such as air, soil, or water pollution. Services include identifying and projecting potential environmental impact resulting from proposed projects, assessing the source, severity and extent of environmental damage resulting from human or natural causes, and recommending solutions to protect or regain the natural balance between organisms and their environment. Activities of environmental surveying/consulting establishments include, but are not limited to, locating archaeological sites for preservation, researching and collecting field data on birds and insects, preparing impact statement for landowners and developers, stream and fish monitoring, botanical surveys, wetland surveys, soil and groundwater testing for contamination, air monitoring including industrial hygiene services, monitoring and testing at hazardous waste sites, providing advice on pollution control at its source, and developing a plan for cleaning up already recognized problems such as waste disposal sites, radon or asbestos contamination. Other services provided may include helping clients develop a system for complying with various governmental regulations. This classification includes employees of the environmental surveying service who conduct field work as well as those who are assigned to act as project managers or project superintendents to oversee the work of remediation contractors.

This classification excludes all types of remediation work which is to be reported separately in the classification applicable to the type of remediation work being performed, and surveyors employed by construction companies or other types of businesses who are to be reported separately in the applicable classifications.

Special note: When assigning classifications 1007 or 4901, care must be taken to look beyond the words "consulting" or "engineering" to determine the actual nature of the activities being performed. Classifications 1007 and 4901

shall not be assigned to the same business unless the operations described by these classifications are conducted as separate and distinct businesses, each business has separate and distinct employees, and the conditions set forth in the general reporting rules covering the operation of a secondary business have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53504, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-53504, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-53504, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-53504, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-53504, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-53504, filed 11/29/82, effective 1/1/83.]

WAC 296-17-536 Classification 1101.

1101-04 Automobile delivery or repossessing

Applies to establishments engaged in delivering or repossessing individual automobiles for others. Generally, a client will contact the service company and arrange for a car to be delivered to a specific destination or request that a car of which they (client) is the legal owner, be repossessed and delivered to a specific location. In either case, a driver, not a motorized transportation service, does the delivery. Duties of employees subject to this classification are generally limited to unlocking vehicles and driving. It is common on long distance deliveries for the service company to use more than one driver. This classification also applies to drivers of sound trucks.

This classification excludes operation of tractor/trailer combinations to transport vehicles which is to be reported separately in classification 1102 or classification 1109, depending on the method of transporting.

1101-06 Delivery by retail and wholesale stores and distributors, N.O.C.

Applies to employees of retail and wholesale stores engaged in inter-store delivery, customer merchandise delivery when excluded from the store classification, and delivery not covered by another classification (N.O.C.). Employees subject to this classification are generally involved in loading and unloading delivery vans or trucks and driving from store to store, or from a store to a customer's location. Drivers may or may not have designated routes or delivery areas. This classification is not applicable to establishments engaged in general trucking services which are to be reported separately in classification 1102. Classification 1101 is distinguishable from delivery operations reported in classification 1102 in that businesses covered by classification 1102 generally do not own the merchandise they are transporting.

1101-09 Parcel delivery companies for delivery of small parcels

Applies to establishments engaged in the delivery of small parcels for others. Establishments subject to this classification may offer overnight express services, but usually do not deliver packages that exceed 150 pounds. Work contemplated by this classification includes, but is not limited to, driving, loading and unloading delivery vehicles. This classification also applies to contract mail delivery route drivers and contract hauling of mail between post offices.

This classification excludes the delivery of bulk freight such as that delivered by trucking companies which are to be reported separately in classification 1102.

1101-14 News agents or distributors of magazines, periodicals and telephone books - no retail dealers

Applies to establishments engaged in the distribution of newspapers, periodicals, and telephone books. Work contemplated by this classification includes, but is not limited to, driving, loading and unloading the vehicles, stocking shelves, and removing old periodicals from shelves.

1101-17 Driver delivery sales, N.O.C.

Applies to establishments engaged in route sales of a wide variety of merchandise not covered by another classification (N.O.C.), including, but not limited to, hand tools, automotive supply, household items, used clothing, snack foods (such as potato chips), dairy products, greeting cards, over-the-counter medications, grooming products, and pamphlets. Sales personnel drive company vehicles to deliver products which have been previously ordered and, while at the customer's location, solicit further orders, remove outdated merchandise, and restock shelves or displays. They may also call on new customers along their route. The classification also applies to establishments or employees who travel to their customer's place of business and remove outdated merchandise from shelves and restock with new products.

1101-19 Route food services

Applies to establishments engaged in route food services where prepackaged, prepared food is sold, or where food may be prepared in the mobile unit for immediate sale by employees of the route food service. Duties include, but are not limited to, driving, food preparation, loading and unloading the vehicle, and cashiering. Typical route food services include, but are not limited to, traveling coaches that sell beverages and prepared pastries or snack items at various locations during a given work day, ice cream wagons, refrigerated trucks that sell specialty prepackaged foods to route customers, or mobile "short-order" food services that sell fast foods at special events or at locations where hot food may not be available.

This classification excludes food preparation at a fixed location for the route food vehicles which may be reported separately in classification 3905 or as applicable.

1101-20 Computer tape or accounting records delivery service

Applies to establishments engaged in picking up and delivering computer tape, accounting records, or similar financial records to or from storage centers to customer locations. Delivery drivers in this classification often work in metropolitan areas and drive small cars or bicycles.

1101-21 Errand service

Applies to establishments engaged in providing errand services for others. Types of errands include, but are not limited to, shopping services, delivery of food, beverages or other commodities, and delivery of body fluid samples to laboratories. Vehicles used by these services are typically small

cars or bicycles. This classification also applies to the distribution of sample merchandise by vehicle.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-536, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-536, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-536, filed 5/30/94, effective 6/30/94; 89-24-051 (Order 89-22), § 296-17-536, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-536, filed 5/31/88, effective 7/1/88; 86-12-041 (Order 86-18), § 296-17-536, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-536, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-536, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-536, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-536, filed 11/30/81, effective 1/1/82; Order 77-27, § 296-17-536, filed 11/30/77, effective 1/1/78; Order 75-38, § 296-17-536, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-536, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-536, filed 11/9/73, effective 1/1/74.]

WAC 296-17-537 Classification 1102.

1102-02 Interstate trucking

Applies to establishments engaged in interstate trucking. Interstate trucking is the hauling of goods that either originate out of state or have an out-of-state destination. Duties include driving, mechanical repair, and in some cases loading/unloading vehicles. The loading and unloading may be done with forklifts, pallet jacks, hand trucks, or by hand. The drivers may have an assigned route, or they may be assigned a different destination each trip.

Special notes: Effective July 1, 1993, trucking establishments are allowed to have both the trucking classification 1102 and the freight handling classification 2002. However, hours cannot be split for a worker who works in both classes. If an employee has any driving duties, *all* their hours are to be reported in classification 1102. Establishments subject to this classification are to report actual hours worked for each driver. However, the hours are to be capped at 520 hours per driver per quarter. Detailed information can be found in the general audit rule covering the trucking industry and in RCW 51.12.095.

1102-03 Intrastate trucking

Applies to establishments engaged in intrastate trucking. Intrastate trucking is the hauling of goods *only* within the boundaries of a state. In other words, the goods must have both an origin and destination in the same state. Duties include driving and, in some cases, loading and unloading the vehicles. The loading and unloading may be done with forklifts, pallet jacks, hand trucks, or by hand. The drivers are usually assigned routes or a territory. Businesses in this classification usually have terminals or storage depots where merchandise is stored awaiting transfer.

Special notes: Effective July 1, 1993, trucking establishments are allowed to have both the trucking classification 1102 and the freight handling classification 2002. However, hours cannot be split for a worker who works in both classes. If an employee has any driving duties, *all* their hours are to be reported in classification 1102. Establishments subject to this classification are to report actual hours worked for each driver. However, the hours are to be capped at 520 hours per driver per quarter. Detailed information can be found in the general audit rule covering the trucking industry.

1102-04 Combined interstate/intrastate trucking

Applies to establishments engaged in a combination of interstate/intrastate trucking activities. Businesses assigned to this classification generally do not produce, manufacture, or legally own the goods they are hauling. Interstate trucking is the hauling of goods which either originate out of state or have an out-of-state destination. Intrastate trucking is the hauling of goods *only* within the boundaries of a state. In other words, the goods have both an origin and destination in the same state. Duties include driving and, in some cases, loading and unloading the vehicles. The loading and unloading may be done with forklifts, pallet jacks, hand trucks, or by hand. The drivers are usually assigned routes or a territory. Establishments in this classification usually have terminals or storage depots where merchandise is stored awaiting transfer.

Special notes: Effective July 1, 1993, trucking establishments are allowed to have both the trucking classification 1102 and the freight handling classification 2002. However, hours cannot be split for a worker who works in both classes. If an employee has any driving duties, *all* their hours are to be reported in classification 1102. Establishments subject to this classification are to report actual hours worked for each driver. However, the hours are to be capped at 520 hours per driver per quarter. Detailed information can be found in the general audit rule covering the trucking industry and in RCW 51.12.095.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-537, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-537, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-537, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-537, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-537, filed 11/9/73, effective 1/1/74.]

WAC 296-17-538 Classification 1103.

1103-00 Coal and solid fuel dealers - yard operations

Applies to establishments engaged in the sale and delivery of coal, pressed wood fiber logs (fire logs), wood stove pellets, wood chips, and sawdust. Operations contemplated by this classification include all related store, yard and delivery operations when conducted by employees of employers having operations subject to this classification.

This classification excludes all manufacturing operations which are to be reported separately in the classification applicable to the material and process used, and all mining operations which are to be reported separately in the applicable classification.

1103-02 Firewood dealers - yard operations

Applies to establishments engaged in the sale of firewood. This classification is limited to establishments operating a firewood sales lot where customers either pick up firewood or the dealer will makes deliveries from. Operations contemplated by this classification are limited to yard and delivery operations.

This classification excludes firewood cutting operations conducted in timber or forest lands and firewood sales lots conducted from a logging landing which are both to be reported separately in the applicable logging classification.

Special note: Establishments subject to this classification may purchase precut firewood from other nonrelated businesses or may have a cutting crew. The only cutting operations allowed in classification 1103 are those conducted in the sales lot.

1103-04 Composting

Applies to establishments engaged in composting yard waste or other materials. Depending on the type of yard waste accepted, grinders may be used to reduce the size of the material for faster composting. Once the material is an acceptable size for composting, it may be placed in static curing piles, turned periodically to aerate until it is adequately decomposed, then sometimes screened. Another method of curing is to place the waste material in long rows, called "windrows" which are turned periodically. Other establishments, either operated privately or by municipalities, may use processed and dewatered sludge which is mixed with other materials such as shredded yard waste, sawdust, or other wood waste. The mixture must be designed to have the right degree of moisture and air to maintain a temperature of between 130 and 160 degrees Fahrenheit. The end product, in either instance, is a "Class A" pathogen product, meaning it can be used in soil for raising vegetables and is referred to as "manufactured" soil. This classification includes delivery when performed by employees of an employer having operations subject to this classification.

1103-05 Pallet recycle service - yard operations

Applies to establishments engaged in the sale of used wood pallets to others. Operations contemplated by this classification are limited to the pick up of discarded used pallets from stores, warehouses, or other facilities, transporting of pallets to the establishment's sorting and storage yard where they are sorted by grade and size, reloading of pallets onto trucks, and delivery of pallets to customers.

This classification excludes all pallet repair activities which are to be reported separately in classification 2903.

1103-06 Top soil, humus, peat and beauty bark dealers - yard operations

Applies to establishments engaged in the sale of soils, humus, peat, and beauty bark to others. Operations contemplated by this classification are limited to the receipt of soils, peat, humus, bark and compost in bulk and the subsequent load out of bark, soil and related organic matter into customer vehicles. This classification includes custom mixing soils, incidental sales of landscaping rock, sand, gravel, and crushed rock, and delivery when performed by employees of an employer subject to this classification.

This classification excludes contract delivery by non-dealer employees who are to be reported separately in classification 1102, and digging of soils/humus/peat/gravel or grinding of bark which are to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-538, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-538, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-538, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-538, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-538, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-538, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-538, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-538, filed 11/9/73, effective 1/1/74.]

WAC 296-17-53801 Classification 1104.

1104-00 Auto or truck wrecking or dismantling

Applies to establishments engaged in salvaging, dismantling and parting out motorized vehicles, motorcycles, and aircraft. Parts may be removed and inventoried or removed when there is a special request for them. Afterwards, hulls are stripped and may be crushed. Operations contemplated by this classification includes removal of salable parts with the use of hand tools and discarding frames and bodies for future sale to scrap dealers and metal manufacturers. Any subsequent breaking up of stripped chassis and bodies with torches or shears to be sold as iron or steel scrap is also included within the scope of this classification as is the reconditioning of the yard's own autos and trucks for resale. In addition to the yard work, salvaged parts will be reconditioned or repaired and sold over the counter. New parts may also be sold. A dismantler may locate and obtain parts from another yard for a customer. Dismantlers may haul cars and trucks to the yard by tow truck, flatbed, or multi-car carrier or the owner may bring the vehicle to the yard. Tow truck operations related to the hauling of vehicles purchased by the wrecking yard for sale by the yard are included within the scope of this classification.

This classification excludes establishments engaged in tow truck services to the public which are to be reported separately in classification 1109, and establishments engaged in salvaging, collecting, sorting and reducing scrap metal which are to be reported separately in classification 0604.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53801, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-53801, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-53801, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-53801, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-53801, filed 11/29/82, effective 1/1/83.]

WAC 296-17-53802 Classification 1105.

1105-00 Septic tank pumping

Applies to establishments engaged in septic tank pumping services for others. In addition to driving duties, the drivers connect the pumping hose to the top of the septic tank and start the motor/pump to remove waste from the septic tank or cesspool. This classification includes the related disposal of waste products which are recovered by establishments subject to this classification.

This classification excludes installation and repair of septic tanks or systems which are to be reported separately in classification 0108, and cleaning of septic systems which is to be reported separately in classification 0504.

1105-01 Street sweeping; parking lot sweeping; and portable chemical toilet servicing

Applies to establishments that perform street sweeping and parking lot sweeping services for others. Trucks used for sweeping are equipped with rotating or nonrotating brushes and vacuum/suction devises. In addition to driving duties, the drivers may adjust/unclog the brushes, and clean the holding tanks contained on the sweeping or pumping vehicle. This classification also includes snow removal by plowing, delivery of portable toilets and the related servicing and disposal of waste products which are recovered by establishments subject to this classification.

1105-02 Vacuum truck services

Applies to establishments engaged in vacuum truck services for others. Services include, but are not limited to, cleaning of duct work, picking up waste oils, lubricants, antifreeze, bilge water, and similar waste products. Establishments subject to this classification may offer a regular service, one-time or occasional pick-up service. The driver has kits for testing the materials and, if there is a question, a sample is taken to a laboratory for further analysis. If the waste material is acceptable, it is pumped into the tanker truck. The waste material may be consolidated with similar products and "bulked" in storage tanks, then taken to appropriate treatment or disposal facilities, or it may be taken directly to appropriate facilities. If it is to be "bulked" with other products, it will be filtered as it is pumped into the storage tanks and allowed to sit for a few days for any water to settle to the bottom of the tank and be drained off. Bulked materials may be hauled away by the establishment's own trucks or by common carrier. Establishments subject to this classification may pick up containers of used oil filters and bring them into their plant where they are sorted into crushed and uncrushed filters, and gaskets removed. This activity is included within the scope of this classification if it is an incidental service. This classification includes the related disposal of waste products which are recovered by establishments subject to this classification.

This classification excludes septic tank pumping which is to be reported separately in classification 1105-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53802, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-53802, filed 5/31/96, effective 7/1/96.]

WAC 296-17-53803 Classification 1106.

1106-00 Rental stores, N.O.C.; Truck canopy sales

Applies to establishments engaged in the rental of items, not covered by another classification (N.O.C.), such as hand tools, air compressors, automotive tools, baby equipment, convalescent equipment, exercise equipment, floor care equipment, pressure washers, party and banquet equipment, light construction tools or equipment such as saws, drills, and sanders, and lawn and garden equipment, as opposed to machinery or larger commercial or industrial equipment. The tools and equipment are generally rented to homeowners for use on their property. Rental stores within this classification rent a variety of tools and equipment unlike specialty rental stores that specialize in one type of product. This classification includes clerical office personnel, sales personnel, as well as the maintenance and repair of rented goods when performed by employees of the rental store. This classification also applies to establishments engaged exclusively in the sale and related installation of truck canopies.

This classification excludes establishments engaged in the rental of commercial or industrial equipment and/or machinery such as, but not limited to, bulldozers, tractors, and backhoes which are to be reported separately in classification 6409; establishments engaged in the rental of farm machinery equipment which are to be reported separately in classification 6408; establishments engaged in the rental of vehicles which are to be reported separately in the applicable classification; establishments engaged in the rental of sporting goods which are to be reported separately in classification 6309; establishments engaged in the rental of clothing or costumes which are to be reported separately in classification 6305; and establishments engaged in the rental of furniture which are to be reported separately in classification 6306.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53803, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-53803, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-53803, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-53803, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-53803, filed 11/29/82, effective 1/1/83.]

WAC 296-17-53805 Classification 1108.

1108-02 Glass tempering

Applies to establishments engaged in glass tempering services for others. Operations contemplated by this classification include glass cutting, bending, grinding, beveling, and silvering. Tools and equipment include metal and wood cutting tools and machinery, grinders, sanders, drills, saws, knives, suction cups, putty, caulking, cleaning solvents, forklifts, packing materials, delivery and service vehicles and tempering ovens. The process of glass tempering consists of taking auto or sheet glass which has been purchased from a glass manufacturer or distributor and placing it in a tempering oven. The oven heat realigns the molecular structure of the glass creating added strength, however, the appearance of the glass remains unchanged. This classification includes the sale of accessories for flat glass such as sealants, screening, aluminum frames for storm windows and doors, mirror backings, frames and glass cleaners.

This classification excludes establishments engaged in the installation of glass, mirrors, aluminum or wood window sashes or similar products away from the shop which are to be reported separately in classification 0511; establishments engaged in the manufacture of glass which is to be reported separately in classification 3503; merchants who specialize in selling or installing auto glass which is to be reported separately in classification 1108-04; glass merchants engaged exclusively in flat glass sales which are to be reported separately in classification 1108-03; and combined auto/flat glass merchants with no tempering which are to be reported separately in classification 1108-05.

1108-03 Flat glass merchants - no tempering

Applies to establishments engaged in receiving, storing and selling all types of fabricated glass and plexiglas. Glass products include, but are not limited to, window glass, plate glass, safety glass for automobiles, and mirrors. Work contemplated by this classification includes cutting of glass to customers specified dimensions, beveling, buffing, grinding, polishing, silvering of plate glass, and the installation of glass into frames within the shop or adjacent yard. Some dealers may specialize in cutting, selling or installing fabricated flat glass or they may also sell and install plate, laminated, window, cathedral, stained, bullet proof, opalescent flat, picture, skylight and tempered glass. Most glass dealers will cut glass to order. Tools and equipment include metal and wood cutting tools and machinery, grinders, sanders, drills, saws, knives, suction cups, putty, caulking, cleaning solvents, forklifts, packing materials, delivery and service vehicles. This classification includes the sale of accessories for flat glass such as sealants, screening, aluminum frames for storm windows and doors, mirror backings, frames and glass cleaners.

This classification excludes establishments engaged in the installation of glass, mirrors, aluminum or wood window sashes or similar products away from the shop which are to be reported separately in classification 0511; manufacturing of glass which is to be reported separately in classification 3503; glass merchants who perform glass tempering which are to be reported separately in classification 1108-02; and merchants who specialize in selling or installing auto glass which are to be reported separately in classification 1108-04.

1108-04 Auto glass merchants

Applies to establishments engaged in selling and installing automobile glass in vehicles. In addition to selling and installing new or replacement auto glass, merchants typically repair auto windshield cracks, scratches, bullseyes and breaks. Tools and equipment include metal and wood cutting tools, grinders, sanders, drills, saws, knives, windshield sticks, suction cups, putty, caulking, cleaning solvents, delivery and service vehicles. Solar tinting of auto glass with film to reduce heat and glare may also be performed, as well as selling and installing sun roofs. Auto glass merchants may offer 24-hour emergency service or pickup and delivery. Installation of auto glass, truck glass or boat tops performed in or away from the shop is included within the scope of this classification.

This classification excludes establishments engaged in the manufacturing of glass which are to be reported separately in classification 3503; glass merchants who perform glass tempering which are to be reported separately in classification 1108-02; glass merchants exclusively dealing in flat glass which are to be reported in classification 1108-03; and combined auto/flat glass merchants with no tempering which are to be reported in classification 1108-05.

1108-05 Combined auto and flat glass merchants - no tempering

Applies to establishments engaged in receiving, storing and selling all types of fabricated glass and plexiglas as window glass, plate glass, safety glass for automobiles, mirrors and other types of glass at a permanent shop location or adjacent yard. Work contemplated by this classification includes cutting of glass to customers' specified dimensions, beveling, buffing, grinding, polishing, silvering of plate glass and the installation of glass into frames. Tools and equipment include metal and wood cutting tools and machinery, grinders, sanders, drills, saws, knives, suction cups, windshield sticks, putty, caulking, cleaning solvents, forklifts, packing materials, and delivery and service vehicles. A glass merchant performing the installation of glass in automobiles is also included within the scope of this classification; as are related services such as, but not limited to, repair of auto windshield cracks, scratches, bullseyes and breaks; in vehicle tinting of auto glass to reduce heat and glare; and installing sun roofs. Other dealers may specialize in cutting, selling or installing fabricated flat glass or they may also sell and install plate, laminated, window, cathedral, stained, bullet proof, opalescent flat, picture, skylight and tempered glass. Included within the scope of this classification is the sale of accessories for flat glass such as sealants, screening, aluminum frames for storm windows and doors, mirror backings, frames and glass cleaners.

This classification excludes establishments engaged in the installation of glass, aluminum or wood window sashes or similar products away from the shop which are to be reported separately in classification 0511; manufacturing of glass which is to be reported separately in classification 3503; glass merchants who perform glass tempering which are to be reported separately in classification 1108-02; and flat glass merchants who do not sell or install auto glass which are to be reported separately in classification 1108-03.

1108-06 Glass frosting, etching, beveling or grinding

Applies to establishments engaged in shaping and finishing solid glass by cutting, frosting, etching, beveling, grinding, sandblasting, carving, glue chipping, decorating or grooving. Custom items manufactured in this classification include, but are not limited to, video game tops, glass signs, glass used in the assembly of electrical appliances such as microwave ovens, electronically controlled cabinets and display panels, and mirrors of all sizes. Machinery includes diamond or glass cutting saws, diamond or glass grinding wheels and discs, drills, polishing laps, etching tools and other hand tools. In the manufacture of mirrors, metallic solutions (usually silver), shellacs or varnishes, paints, and plate glass are received from outside sources. The glass is cut to size, ground, smoothed, and the edges may be beveled. Hole drilling, chemical etching, drying, buffing and polishing may be performed. Reflective surfaces are generally produced by pouring or spraying metallic solutions over prepared glass. Heavier coats are obtained by successive applications of the plating solution. After applying the plating solution, the mirrors are sprayed or hand brushed with shellac or varnish, then with paint. Frames, handles or similar finishings may be attached. Production manufacturing of insulated glass by sealing together two or more sheets of glass with an air space between them is also included when performed by employees of an employer subject to this classification.

This classification excludes the mining, digging or quarrying of raw materials which is to be reported separately in the applicable classification; glass merchants who do incidental grinding, beveling, silvering and cutting of glass who are to be reported separately in the classification applicable to the type of glass they specialize in; establishments manufacturing optical goods or telescopes, or perform precision grinding of blank or rough lenses which are to be reported separately in classification 6604; and establishments engaged in manufacturing stained or leaded glassware, or in melting or blowing glass which are to be reported separately in classification 3503.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53805, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-53805, filed 5/31/96, effective 7/1/96; 86-12-041 (Order 86-18), § 296-17-53805, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-53805, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-53805, filed 2/28/85, effective 4/1/85; 82-24-047 (Order 82-38), § 296-17-53805, filed 11/29/82, effective 1/1/83.]

WAC 296-17-53806 Classification 1109.

1109-00 Automobile or truck towing services, N.O.C.

Applies to establishments engaged in providing towing services to others which are not covered by another classification (N.O.C.). Operations contemplated by this classifica-

tion are limited to tow truck drivers and their assistants who are engaged in towing services for hire. For purposes of this classification "towing services for hire" means, but is not limited to, the towing of disabled vehicles to a shop (that is unrelated to the towing service) for repair; the recovery of repossessed vehicles for others by tow truck; roadside assistance during snow, ice or flooding to recover or free stuck vehicles; and the towing in of disabled vehicles to a secured yard for insurance or law enforcement agencies. It is common for towing companies to also operate a vehicle repair garage or service center in conjunction with the towing service. Auto service centers and repair garages, auto body shops and wrecking yard operations are to be reported separately in the applicable service or repair classification provided that the conditions of the general reporting rules covering the operation of a secondary business and the division of worker hours have been met. Tow truck dispatchers who have no other duties may be reported separately in classification 4904 provided that the conditions of the standard exception general reporting rules have been met.

Special note: Towing is common to many classifications. Employers offering towing services should be contacted to verify whether the towing service they provide is only in connection with their auto repair, auto body or wrecking yard *(towing service not for hire)*, or provided as a general service unrelated to their repair garage *(towing services for hire)*. Only towing services for hire are to be assigned to classification 1109. If a business provides both towing services for hire and not for hire, worker hours for drivers and their assistants maybe divided between this classification and the applicable repair garage classification provided that the conditions of the general reporting rule covering the division of worker hours has been met. Otherwise, all driver and assistant hours are to be assigned to the highest rated classification applicable to the business.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-53806, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-53806, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-53806, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-53806, filed 11/27/85, effective 1/1/86.]

WAC 296-17-539 Classification 1301.

1301-00 Electric light and power plants operated by cities, towns, or counties

Applies to establishments, operated by a city, town, or county, engaged in generating and distributing electricity to their residents. These may be hydroelectric, fossil fuel steam or turbo-generator plants. This classification includes the regular installation, maintenance and repair of power plant machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), the installation and maintenance of circuit breakers and transformers on poles, pole-to-house hook-ups (service connections), meter installation and meter readers when done by employees of an employer having operations subject to this classification. Machinery and equipment may include, but not be limited to, boilers, turbines, generators, cables, transformers, switchgears, circuit breakers, control panels, substations, poles, lines, relays, computers, cranes, forklifts, vehicles and garages, warehouse equipment, meters and hand tools.

This classification excludes contractors engaged in underground line construction maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line, pole and tower construction, maintenance or repair, who are to be reported separately in classification 0509; contractors engaged in wiring within buildings who are to be reported separately in classification 0601; contractors engaged in the installation of machinery or equipment who are to be reported separately in classification 0601 or 0603 as applicable; and the construction of any buildings which is to be reported separately in the applicable construction classification.

1301-01 Electric light and power cooperatives

Applies to establishments, in the form of cooperatives, engaged in generating and distributing electricity to their customers. A cooperative is formed by, and owned jointly by, those who make use of the service being provided. The power may be generated by a hydroelectric, fossil fuel steam or turbo-generator plant. This classification is appropriate whether a cooperative owns a power plant or is distributing power purchased from another utility company. Work contemplated by this classification includes the regular installation, maintenance and repair of power plant machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), the installation and maintenance of circuit breakers and transformers on poles, pole-to-house hook-ups (service connections), meter installation and meter readers when done by employees of an employer having operations subject to this classification. Machinery and equipment may include, but not be limited to, boilers, turbines, generators, cables, transformers, switchgears, circuit breakers, control panels, substations, poles, lines, relays, computers, cranes, forklifts, vehicles and garages, warehouse equipment, meters and hand tools.

This classification excludes contractors engaged in underground line construction maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line, pole and tower construction, maintenance or repair, who are to be reported separately in classification 0509; contractors engaged in wiring within buildings who are to be reported separately in classification 0601; contractors engaged in the installation of machinery or equipment who are to be reported separately in classification 0601 or 0603 as applicable; and the construction of any buildings which is to be reported separately in the applicable construction classification.

1301-02 Electric light and power plants operated by public utility districts

Applies to establishments, in the form of a public utility district (P.U.D.), engaged in generating and distributing electric power to a part of a county. This classification applies whether a P.U.D. owns a power plant or is distributing power purchased from another utility. Work contemplated by this classification includes the regular installation, maintenance and repair of power plant machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), the installation and maintenance of

circuit breakers and transformers on poles, pole-to-house hook-ups (service connections), meter installation and meter readers when done by employees of an employer having operations subject to this classification. Machinery and equipment may include, but not be limited to, boilers, turbines, generators, cables, transformers, switchgears, circuit breakers, control panels, substations, poles, lines, relays, computers, cranes, forklifts, vehicles and garages, warehouse equipment, meters and hand tools.

This classification excludes contractors engaged in underground line construction maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line, pole and tower construction, maintenance or repair, who are to be reported separately in classification 0509; contractors engaged in wiring within buildings who are to be reported separately in classification 0601; contractors engaged in the installation of machinery or equipment who are to be reported separately in classification 0601 or 0603 as applicable; and the construction of any buildings which is to be reported separately in the applicable construction classification.

1301-05 Steam heat power plants

Applies to establishments engaged in the operation of a steam heat power plant. These businesses use coal, oil, natural gases or electric power to produce steam which is distributed through a network of under or overground pipes to customers (the plant must be very near the purchaser). The initial process of producing the steam is the same as the process used in a steam powered electric generating plant, but the steam is channeled out to the purchaser instead of being used to turn turbines. The purchasers use the steam for heating buildings, operating saunas, as a heat source for cooking or processing in food processing plants, breweries or restaurants, producing the heat needed for wood drying kilns, or to convert back to hot water. Work contemplated by this classification includes, but is not limited to, the regular installation, maintenance or repair of plant machinery and equipment, the extension and maintenance of over or underground pipes, main-to-user hook-ups, meter installation and meter readers.

This classification excludes contractors engaged in over or underground pipeline construction, maintenance or repair, main-to-house line extensions and hook-ups, who are to be reported separately in classification 0107; contractors engaged in the installation or contract maintenance of machinery or equipment who are to be reported separately in classification 0603; and the construction of any buildings which is to be reported separately in the applicable construction classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-539, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-539, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-539, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-539, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-539, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-539, filed 11/9/73, effective 1/1/74.]

WAC 296-17-540 Classification 1303.

1303-00 Telephone companies - all other employees

Applies to establishments engaged in providing telecommunications services which enable subscribers to converse or transmit coded data. Work contemplated by this classification includes, but is not limited to, the regular installation, maintenance and repair of machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), clearing right of ways, installing telephones and wiring in buildings, and making service connections when done by employees of an employer having operations subject to this classification. Machinery and equipment includes, but is not limited to, central control and switching center equipment, relays, computers, antennae, cranes, forklifts, vehicles and garages, warehouse equipment, and hand tools.

This classification excludes clerical office, exchange operators and administrative personnel who are to be reported separately in classification 1304; contractors engaged in underground line construction maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line, pole, and tower construction, maintenance or repair, who are to be reported separately in classification 0509; contractors engaged in wiring within buildings and making pole-to-house hook-ups who are to be reported separately in classification 0608; contractors engaged in the installation or contract maintenance of machinery or equipment who are to be reported separately in classification 0603; and establishments primarily engaged in selling telephone equipment retail which are to be reported separately in classification 6406.

1303-01 Telegraph companies - all other employees

Applies to establishments engaged in providing telecommunication services which enable printed messages (telegrams) to be transmitted from one agent to another for receipt by, or delivery to, a designated party. Telegraph companies also provide a "moneygram" service which allows an agent to receive a sum of money at one location and transmit a message to another agent to pay out the same amount of money to a designated party at another location. Work contemplated by this classification includes the regular installation, maintenance and repair of machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), installing transmission and receiving equipment, the clearing of right of ways, and delivery work when done by employees of an employer having operations subject to this classification. Machinery and equipment includes, but is not limited to, cables, control panels, poles, lines, relays, computers, cranes, forklifts, vehicles and garages, warehouse equipment, and hand tools.

This classification excludes clerical office and administrative personnel who are to be reported separately in classification 1304; contractors engaged in underground line construction maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line, pole, and tower construction, maintenance or repair, who are to be reported separately in classification 0509; contractors engaged in wiring within buildings who are to be reported separately in classification 0608; and contractors engaged in the installation or contract maintenance of machinery or equipment who are to be reported separately in classification 0603.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-540, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-540, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-540, filed 11/27/85, effective

1/1/86; 85-06-026 (Order 85-7), § 296-17-540, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-540, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-540, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-540, filed 11/9/73, effective 1/1/74.]

WAC 296-17-541 Classification 1304.

1304-00 Telephone companies - exchange operators, clerical office and sales personnel

Applies to the administrative and clerical office personnel of establishments engaged in providing telecommunication services which enable two or more parties to converse or transmit coded data. For purposes of this classification, administrative personnel includes clerical office, sales, data processing, exchange operators, customer service, marketing, and retail telephone store (when operated by the telephone company) sales personnel.

This classification excludes all other telephone company employees who are to be reported separately in classification 1303.

1304-01 Telegraph companies - clerical office and sales personnel

Applies to administrative and clerical office personnel of establishments engaged in providing telecommunication services which enable printed messages (telegrams) or moneygrams to be transmitted from one agent to another for receipt by a designated party. For purposes of this classification, administrative personnel includes clerical office, sales, data processing, customer service, marketing, cashiers and operators of telegraph, teletype or other transmitting and receiving equipment.

This classification excludes all other telegraph company employees who are to be reported separately in classification 1303.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-541, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-541, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-541, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-541, filed 11/9/73, effective 1/1/74.]

WAC 296-17-54101 Classification 1305.

1305-00 Television cable companies - all other employees

Applies to establishments engaged in providing point-to-point subscription cable communications services. This classification is restricted to companies that provide the total spectrum of cable services for a fee or rental charge. These companies will normally operate and maintain antenna and control centers where they receive signals from broadcasting stations and transmit them through a cable system to local customers. This classification also includes homeowner associations and co-ops that operate a central system for residential users. Work contemplated by this classification includes, but is not limited to, the regular installation, maintenance and repair of machinery and equipment, the extension and maintenance of lines (including poles, towers and underground lines), installation of antennae, the clearing of right of ways, erections of poles, crossarms and insulators, and subscriber service connections when done by employees of an employer having operations subject to this classification. Machinery and equipment includes, but is not limited to, cables, transformers, control panels, poles, lines, antennae, relays, computers, cranes, forklifts, vehicles and garages, warehouse equipment, and hand tools.

This classification excludes contractors engaged in underground line construction, maintenance or repair who are to be reported separately in classification 0107; contractors engaged in overhead line installation who are to be reported separately in classification 0509; contractors engaged in pole and tower construction, maintenance or repair who are to be reported separately in classification 0508; contractors engaged in wiring within buildings and making pole-to-house service connections who are to be reported separately in classification 0601; and clerical office employees of television cable companies who are to be reported separately in classification 4502.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-54101, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-54101, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-54101, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-54101, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-54101, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-54101, filed 11/29/82, effective 1/1/83.]

WAC 296-17-542 Classification 1401.

1401-01 Taxicab companies

Applies to establishments engaged in furnishing passenger transportation to others. Work contemplated by this classification includes, but is not limited to, operation of the vehicle, loading/unloading passengers' luggage, assisting passengers in and out of the vehicle, and maintenance/repair of the vehicle when performed by employees of an employer subject to this classification. Businesses that operate cabulance, pedicab, and horse-drawn carriage services are included in this classification.

This classification excludes establishments that operate ambulance services which are to be reported separately in classification 1405, and dispatchers with no other job duties who may be reported separately in classification 4904.

Special note: Establishments that furnish only a dispatch service for taxicab drivers who own or lease their own vehicles may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met. Employees of a taxicab dispatch service who perform maintenance/repair are to be reported separately in classification 3411. See RCW 51.08.180 for the definition of "worker" to aid in determining if drivers are employees.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-542, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-542, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-542, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-542, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-542, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-542, filed 11/9/73, effective 1/1/74.]

WAC 296-17-544 Classification 1404.

1404-04 Bus companies and transit systems

Applies to bus companies, transit systems, contract bus driving, and other establishments engaged in public transportation services such as, but not limited to, scenic bus tour services, contract school bus services, shuttle van services, and public transit systems. Work contemplated by this classifica-

tion includes driving and related loading/unloading duties, inspecting and maintaining vehicles, and all terminal employment except for office personnel. Ticket sellers may be reported separately in classification 4904 provided that they do not handle baggage and that all the conditions of the standard exception general reporting rules have been met.

This classification excludes limousine companies which are to be reported separately in classification 6301.

1404-06 Vessels, ferries, tugs, and steamboats, N.O.C.

Applies to employees not covered under federal jurisdiction, or another classification (N.O.C.), who provide services for seaworthy vessels such as ferries, tugs, or steamboats at the docking site or on adjacent land. Vessels may operate seasonal or year-round. Employments include, but are not limited to, dock workers, maintenance workers, traffic control personnel, and night security personnel.

Special note: Care should be exercised prior to assignment of this classification as the workers could be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act. A detailed description of these acts can be found in classifications 0104 or 0202.

1404-07 Train rides

Applies to establishments engaged in the operation of passenger excursion train rides for scenic or amusement purposes on an intrastate basis only. Excursion train rides are typically operated from a mountain, lake or similar site. The trains may operate on a seasonal basis in direct relation to the volume of tourists, weather conditions, or dates of local celebration. Employments in this classification include, but are not limited to, drivers/engineers, guides, lecturers, hostesses, maintenance personnel and on-board food service. Ticket sellers can be reported separately in classification 4904 provided that they do not handle baggage and that the conditions of the standard exception general reporting rules have been met.

1404-11 Escort and pilot cars

Applies to establishments that provide escort or pilot car services for others. The duties include driving ahead of, or behind, various types of vehicles.

This classification excludes employees of an employer assigned to drive escort or pilot cars in connection with the delivery of equipment, buildings, goods, or similar items which the employer sells or contracts to deliver. Such employment is to be reported separately in the classification applicable to sales or delivery of such items. For example, an escort driver employed by a common carrier transporting a modular home to a customer's site is to be reported separately in classification 1102.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-544, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-544, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-544, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-544, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-544, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-544, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-544, filed 11/9/73, effective 1/1/74.]

WAC 296-17-54401 Classification 1405.

1405-00 Ambulance services

Applies to establishments engaged in prehospital emergency care and transportation of ill or injured persons to or from medical facilities. The services provided by any one ambulance company will vary to some degree, however, normal operations for ambulance companies include, but are not limited to, the following: Prehospital care, responding to calls where the injury or accident does not require medical treatment other than that provided by Emergency Medical Technicians (para-medics) who work for the ambulance company, standby at events, assisting in providing prehospital care and patient transport services of injured players or spectators at games, concerts, and fairs, public education/training, teaching CPR, first aid, and related courses to the public, and cabulance service (transporting patients who do not require prehospital care to and from medical facilities).

Special notes: Special care must be taken in classifying *cabulance services* which are included in classification 1401. In order to qualify for classification 1405, a company must be primarily in business as an ambulance company. For premium reporting purposes, ambulance companies are to report all employees on an hourly basis, provided the maximum will not exceed eight hours during any twenty-four hour period. If verifiable records disclosing actual time worked are unavailable, employees are to be reported at eight hours per day for each day they had duties. If records do not disclose hours or days worked by individual employees, an assessment of forty hours per week is to be made for each week in which an employee had duties, or one hundred and sixty hours per month. For *air ambulance services*, flight time is to be reported separately in classification 6803, and ground operations are to be reported separately in classification 1405.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-54401, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-54401, filed 5/29/87, effective 7/1/87.]

WAC 296-17-545 Classification 1501.

1501-00 Counties and taxing districts, N.O.C. - all other employees

Applies to employees of counties and taxing districts, not covered by another classification (N.O.C.), who perform manual labor, or who supervise a work crew performing manual labor such as custodial or maintenance, and machinery or equipment operators. This classification includes administrative personnel such as engineers, safety inspectors, and biologists, who have field exposure, and also includes store and stock clerks. For purposes of this classification, field exposure is defined as any exposure other than the normal travel to or from a work assignment.

This classification excludes electric light and power public utility districts which are to be reported separately in classification 1301; bus or transit systems which are to be reported separately in classification 1404; water distribution or purification system public utility districts which are to be reported separately in classification 1507; irrigation system public utility districts which are to be reported separately in classification 1507; port districts which are to be reported separately in classification 4201; school districts, library districts or museum districts which are to be reported separately in classifications 6103 or 6104; hospital districts which are to

be reported separately in classification 6105; fire fighters who are to be reported separately in classification 6904; law enforcement officers who are to be reported separately in classification 6905; clerical office and administrative employees who are to be reported separately in classification 5306, and volunteers who are to be reported separately in classifications 6901 or 6906, as appropriate.

1501-01 Housing authorities, N.O.C. - all other employees

Applies to employees of housing authorities, not covered by another classification, who perform manual labor, or who supervise a work crew performing manual labor such as custodial or maintenance, and machinery or equipment operators. This classification includes all functional operations of a housing authority such as inspection, maintenance and repairs, including minor structural repairs, janitorial service, and building and grounds maintenance. Also included in this classification are meter readers, security personnel, other than those with law enforcement powers, administrative personnel such as engineers and safety inspectors who have field exposure, and store and stock clerks. For purposes of this classification, housing authorities are defined as nonprofit, public and political entities which serve the needs of a specific city, county or Indian tribe. The nature and objectives of some of the projects undertaken by housing authorities include providing decent, safe and sanitary living accommodations for low income persons, or providing group homes or halfway houses to serve developmentally or otherwise disabled persons or juveniles released from correctional facilities. A housing authority has the power to prepare, carry out, lease and operate housing facilities; to provide for the construction, reconstruction, improvement, alteration or repair of any housing project; to sell or rent dwellings forming part of the project to or for persons of low income; to acquire, lease, rent or sell or otherwise dispose of any commercial space located in buildings or structures containing a housing project; to arrange or contract for the furnishing of the units; and to investigate into the means and methods of improving such conditions where there is a shortage of suitable, safe and sanitary dwelling accommodations for persons of low income.

This classification excludes new construction or major alteration activities which are to be reported separately in the appropriate construction classifications; clerical office and administrative employees who are to be reported separately in classification 5306; security personnel with law enforcement powers who are to be reported separately in classification 6905; and volunteers who are to be reported separately in classifications 6901 or 6906, as appropriate.

1501-08 Native American tribal councils - all other employees

Applies to employees of Native American tribal councils who perform manual labor, or who supervise a work crew performing manual labor such as custodial or maintenance, and machinery or equipment operators. This classification includes administrative personnel such as engineers, safety inspectors, and biologists, who have field exposure, and also includes store and stock clerks. For purposes of this classification, field exposure is defined as any exposure other than the normal travel to and from a work assignment.

This classification excludes electric light and power public utility districts which are to be reported separately in classification 1301; bus or transit systems which are to be reported separately in classification 1404; water distribution or purification system public utility districts which are to be reported separately in classification 1507; irrigation system public utility districts which are to be reported separately in classification 1507; school districts, library districts or museum districts which are to be reported separately in classifications 6103 or 6104; hospital districts which are to be reported separately in classification 6105; fire fighters who are to be reported separately in classification 6904; law enforcement officers who are to be reported separately in classifications 6905 and 6906; new construction or reconstruction activities which are to be reported separately in the appropriate construction classification; clerical office and administrative employees who are to be reported separately in classification 5306.

Special notes: Housing authorities operating under the name of, and for the benefit of, a particular tribe are not exempt from mandatory coverage. These housing authorities are federally funded and are not owned or controlled by a tribe.

Only those tribal operations which are also provided by county governments are subject to classification 1501. The following activities, such as but not limited to, visiting nurses and home health care, grounds keepers, building maintenance, park maintenance, road maintenance, and garbage and sewer works, are considered to be normal operations to be included in this classification. All other tribal council operations which are not normally performed by a county government shall be assigned the appropriate classification for the activities being performed. The following operations, such as but not limited to, meals on wheels, bingo parlors, casinos, liquor stores, tobacco stores, grocery stores, food banks, gift shops, restaurants, motels/hotels, Head Start programs, fish/shellfish hatcheries, logging, and tree planting/reforestation are outside the scope of classification 1501 and are to be reported separately in the applicable classifications.

1501-09 Military base maintenance, N.O.C.

Applies to establishments, not covered by another classification (N.O.C.), engaged in providing all support operations and services on a military base on a contract basis. Such services include, but are not limited to, data processing, photography, mail delivery (on post and to other military facilities), hotel/motel services, mess halls, recreational facilities, grounds and building maintenance, vehicle maintenance, and may also include the maintenance of such facilities as water works, sewer treatment plants and roads.

This classification excludes new construction or construction repair projects which are to be reported separately in the applicable construction classification for the work being performed; contracts for specific activities on a military base such as, but not limited to, building maintenance, club or mess hall operations, or vehicle maintenance, which are to be reported separately in the applicable classification for the work being performed; firefighters who are to be reported separately in classification 6904; law enforcement officers who are to be reported separately in classification 6905; and

clerical office and administrative employees who are to be reported separately in classification 5306.

Special note: Classification 1501-09 is to be assigned to an establishment only when ***all*** support services on a military base are being provided by the contractor.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-545, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-545, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 54.16.035. 93-12-093, § 296-17-545, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-545, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-545, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-545, filed 11/13/80, effective 1/1/81; Order 77-27, § 296-17-545, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-545, filed 12/1/77; Order 73-22, § 296-17-545, filed 11/9/73, effective 1/1/74.]

WAC 296-17-546 Classification 1507.

1507-01 Irrigation ditches operation, repair and maintenance

Applies to establishments engaged in providing water for agricultural irrigation through a network of ditches, canals and/or pipelines. Irrigation system operations may be owned by individuals, a private company, cooperatives or a municipality. Water for irrigation can come from a natural above or below ground source or a reservoir and is kept flowing by means of pumping plants. Irrigation water usage is monitored at the "turn-out" which must be manually opened by an employee of the irrigation company and is located between the ditch/pipeline and the user's field. Work contemplated by this classification includes, but is not limited to, digging and maintaining ditches or canals, installing underground pipe, installation or maintenance of control gates and pumps, cleaning of ditches, spraying to control insects, and regular maintenance of vehicles and equipment when done by employees of an employer having operations subject to this classification. Machinery and equipment includes, but is not limited to, water pumps, ditch digging/pipe laying equipment, control gates, pumps, vehicles, spraying equipment and hand tools. This classification includes the operation of drainage systems by a private company or a municipal special purpose district.

This classification excludes contractors engaged in the digging of ditches or canals who are to be reported separately in classification 0108 or 0201 as applicable; underground pipe laying which is to be reported separately in classification 0107; the installation of agricultural sprinkler systems which is to be reported separately in classification 0301; the installation or repair of irrigation/drainage pumps which is to be reported separately in classification 0306; the routine irrigation of individual agricultural acreage with the owner's own system which is to be reported separately in the classification applicable to the establishment; the construction of any new buildings which is to be reported separately in the construction classification applicable to the work being performed; and clerical office and administrative personnel who are to be reported separately as appropriate, classification 5305 for cities and towns, classification 5306 for counties, or classifications 4904 and 6303 for nonmunicipal ownership.

Special note: Many water supply operations in Washington may have "irrigation district" as part of their name because of their original purpose, but they are actually functioning as a waterworks supplying residential users and are to be reported separately in classification 1507-02.

1507-02 Waterworks operations, repair and maintenance

Applies to establishments engaged in the operation of water purification and distribution systems known as waterworks. Water is obtained from natural sources of surface or ground water, piped to filtration plants, filtered, treated with chemicals, then pumped to holding facilities for eventual distribution to the user through underground pipes. Waterworks may be owned by cooperatives, such as homeowners' associations, a private company, or a municipality (as a P.U.D.). Work contemplated by this classification includes, but is not limited to, erection of towers and tanks, underground waterline construction, maintenance of purification and filtration facilities, installation of fire hydrants, operating a laboratory, main-to-house hook-ups and the installation and reading of meters when done by employees of an employer having operations subject to this classification. Machinery and equipment includes, but is not limited to, excavating, pipe laying, erecting and welding equipment, vehicles, machine shop equipment, pumps and gauges, meters and hand tools. This classification includes the operation of sewerage treatment plants by owner or contract.

This classification excludes contractors engaged in underground waterline construction, maintenance or repair, including main-to-house hook-ups, who are to be reported separately in classification 0107; plumbing contractors engaged in waterline main-to-house hook-ups as part of an all-inclusive plumbing installation contract which is to be reported separately in classification 0306; the erection of water towers and tanks by a contractor which is to be reported separately in classification 0508; contractors engaged in industrial plant maintenance who are to be reported separately in classification 0603; the construction of dams which is to be reported separately in classification 0701; the construction of any new buildings which is to be reported separately in the construction classification applicable to the work being performed; and clerical office and administrative personnel who are to be reported separately as appropriate.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-546, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-546, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-546, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-546, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-546, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-546, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-546, filed 11/9/73, effective 1/1/74.]

WAC 296-17-548 Classification 1701.

1701-02 Ore reduction, by wet or dry process without application of heat at mine

Applies to establishments engaged in the reduction of coarse ores by a wet or dry process at a mine site. Work contemplated by this classification involves a variety of ore milling activities. The process begins by crushing, screening and washing the ores. Next, ores are placed in a rotating cylindrical mill which contains steel balls, flint pebbles, rods or rock for further grinding. Then with the use of amalgamation (introduction of a chemical such as mercury to break down the ores) or flotation (uses water to separate by buoyancy and densities), the ore material is broken down and dried to obtain

concentrated ores of metals. The milling of ores to recover some nonmetallic minerals which do not require amalgamation or flotation are also included within this classification.

This classification excludes underground mining operations which are to be reported separately in classification 1702, and open cut mining operations which are to be reported separately in classification 1703.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-548, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-548, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-548, filed 11/9/73, effective 1/1/74.]

WAC 296-17-549 Classification 1702.

1702-01 Coal mines and mines N.O.C., underground; coke ovens

Applies to establishments engaged in underground mining, not covered by another classification (N.O.C.), involving the extraction of coal, ores, stone, clay or other minerals. Operations contemplated by this classification include excavation and tunneling below ground as well as the incidental activities occurring above ground. Underground mining may involve shaft sinking, slope sinking, rock tunneling, and the building of drifts and shafts with heavy timbers or steel beams. Material is broken loose within the tunnel or shaft with explosives, drilling machines, rock drills, chippers, power hand drills and picks. After the material is broken loose it is removed from underground by way of hoist, conveyor, or some type of haulage car on steel track. On the surface, some of the extracted material is further refined such as coal which is crushed, screened, washed and graded before being hauled away. Additional equipment includes elevators, ventilation and communication systems, water pipes, lighting systems, as well as front end loaders, bulldozers and trucks. This classification also applies to establishments engaged in the manufacture of coke which is a solid carbonaceous residue obtained from bituminous coal after the removal of volatile materials by a distillation process. The method usually consists of a beehive or by-product oven process. Coal is fed into crushers which breaks oversized pieces into smaller pieces which are then conveyed to bunkers serving the ovens. This classification also applies to ore reduction involving heat processes.

This classification excludes ore reduction operations which do not require the use of heat which are to be reported separately in classification 1701, and open cut mining which is to be reported separately in classification 1703.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-549, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-549, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-549, filed 2/28/85, effective 4/1/85; Order 75-38, § 296-17-549, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-549, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-549, filed 11/9/73, effective 1/1/74.]

WAC 296-17-550 Classification 1703.

1703-01 Open cut mining - all types; placer or hydraulic mining

Applies to establishments engaged in open cut mining to extract all types of ore including certain minerals such as, but not limited to, phosphate rock, graphite, talc, chalk, mica, asphalt, asbestos and gypsum. The process of open cut mining is also commonly referred to as surface mining, open pit mining or strip mining whereby such ores and minerals are extracted from a large hole or pit on the surface. Operations contemplated by this classification involve excavating and stripping the surface material with use of drag lines, power shovels or earth moving equipment. The products are loaded onto dump trucks or belt conveyors for movement to railroad sidings and loading into ore cars for shipment to processing plants. The equipment generally involves compressors, pneumatic drilling rigs, conveyors, trucks, drag lines, shovels, scrapers and bulldozers. This classification also applies to establishments engaged in hydraulic mining in which material is excavated by moving a stream of high pressure water over the mining face, and placer mining which obtains minerals from placers by use of running water such as on a stream or the shoreline.

This classification excludes underground mining which is to be reported separately in classification 1702, and quarrying which is to be reported separately in classification 1704.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-550, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-550, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-550, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-550, filed 11/9/73, effective 1/1/74.]

WAC 296-17-551 Classification 1704.

1704-02 Quarries, N.O.C.

Applies to establishments engaged in quarrying, not covered by another classification (N.O.C.), to extract large solid stone such as, but not limited to, limestone, sandstone, granite, marble, slate, hard shale rock, ballast rock, cement rock, coral rock, etc., from hillsides or open pits. Operations contemplated by this classification involve exposing stone with use of drag lines, power shovels, scrapers or other earth moving equipment. In some instances, blasting with explosives is performed on large stone masses to break portions loose. The stone is separated into large blocks, sometimes called loafs. There are several methods to cut a loaf - line drilling, wire sawing, diamond wire sawing or chiseling. The loafs are removed from the quarry pit and taken to the surface. This classification includes all other activities occurring on the surface of the quarry site which could involve the further cutting of the loafs or the crushing of stone into smaller pieces.

This classification excludes open pit mining operations which are to be reported separately in classification 1703, and underground mining which is to be reported separately in classification 1702.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-551, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-551, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-551, filed 11/9/73, effective 1/1/74.]

WAC 296-17-552 Classification 1801.

1801-01 Lead smelting, sintering, or refining; calcium carbide manufacturing

Applies to establishments primarily engaged in the smelting, sintering, or refining of lead, including the manufacturing of calcium carbide. The lead ore most commonly mined is galena which is the sulfide of lead. The ore is mixed with other metalliferous minerals, such as sphalerite, copper pyrites and iron pyrites. The smelting process consists of fus-

ing or separating the metallic elements. After ore has been received, the process begins by crushing, washing and screening the ore. There may be various steps of milling, concentration or amalgamation (floatation) to separate the galena from the sphalerite and other minerals. The roasting or sintering process takes place in rotary kilns or other types of furnaces. In this way the material is sintered or converted into lumps (called sinter) which are mixed with coke and placed into a shaft furnace. The material is then desilvertized which is achieved by adding metallic zinc and raising the temperature sufficiently to dissolve it. The molten metal is then cast into ingots. The ingots may go through further refining processes or may be considered a finished product. This classification also includes the manufacturing of calcium carbide which is a crystalline material produced by heating pulverized limestone or quicklime with carbon and used to generate acetylene gas, as a dehydrating agent, and in making graphite and hydrogen.

This classification excludes aluminum smelting operations which are to be reported separately in classification 1802; the smelting, sintering or refining of ores not covered by another classification, (N.O.C.) which is to be reported separately in classification 1801-08; the recovering, refining or reprocessing of metals which is to be reported separately in classification 1801-09; ore reduction which is to be reported separately in classification 1701; and open pit or underground mining operations which are to be reported separately in the classification applicable to the mining being performed.

1801-03 Steel or iron rolling mills; rolling mills, N.O.C.

Applies to establishments engaged in operating iron or steel rolling mills. In a rolling mill ingots and/or slabs of steel are rolled (i.e., they are passed between rollers whereby they undergo an increase in length and a corresponding reduction in depth). The rollers used by the rolling mills vary widely in size and shape, depending on the type of rolled section(s) to be produced. Depending upon the thickness of the metal to start and the desired thickness when finished, a single piece of metal may pass through the same or a different set of rollers several times.

Rolling mills for pipes may be divided into two categories - welded pipes and seamed pipes. Welded pipes are produced from a steel strip which is bent to a tubular shape and whose edges are then joined by welding. Seamed pipes are produced from cast or rolled billets at rolling temperature. There are different processes for both kinds of manufacturing. Whatever method is used the metals are somehow heated to temperatures up to 1400 degrees Fahrenheit. The equipment may include, but is not limited to, rakes, ladle, forklifts and front loaders.

This classification excludes aluminum smelting plant operations which are to be reported separately in classification 1802, and establishments engaged in the manufacture of pipe or tube from iron or steel by drawing or bending which are to be reported separately in classification 5101.

1801-08 Ore smelting, sintering or refining, N.O.C.

Applies to establishments engaged in the smelting, sintering, or refining of ores not covered by another classification (N.O.C.). Smelting and sintering are refining processes which use different properties of heat which may or may not reduce the ore to molten form. Temperatures are usually lower than 1400 degrees Fahrenheit. Ore is received direct from the mine or in a variety of forms such as, but not limited to, pellets, particles, molds and briquettes. After ore has been received, the process begins by crushing, washing and screening the ore. There may be various steps of milling, concentration or amalgamation (floatation) to separate the ore or already formed materials. The roasting or sintering process takes place in rotary kilns or other types of furnaces. In this way the material is sintered or converted into lumps (called sinter) which may be mixed with other materials and placed into a shaft furnace. The molten metal ore is then cast or recast into ingots. The ingots may go through further refining processes or may be considered a finished product.

This classification excludes aluminum smelting operations which are to be reported separately in classification 1802; the smelting, sintering or refining of lead which is to be reported separately in classification 1801-01; the recovering, refining or reprocessing of metals which is to be reported separately in classification 1801-09; ore reduction which is to be reported separately in classification 1701; and open pit or underground mining operations which are to be reported separately in the classification applicable to the mining being performed.

1801-09 Metal recovering, refining or reprocessing

Applies to establishments engaged in the recovering, refining, or reprocessing of metals. These establishments are considered secondary processors or reprocessors to primary metal producers. The primary producer uses ore to manufacture metal, whereas, the secondary processors or reprocessors will recover, refine, or reproduce refined metals from coarse metal. Types of metal include, but are not limited to, gold, aluminum, silver, lead, and zinc. Metal comes in various forms to include cast ingots, dross, and scrap material. The scrap material and dross are recycled to extract reusable metallic elements. Other metals are reprocessed and may include adding alloys and/or other elements, or recasting the metals into different shapes and sizes. An example may include adding magnesium to zinc as part of the recycling process in which zinc oxide is produced and sold to rubber companies for manufacturing tires and other rubber products. Metals are weighed, sorted and/or sifted through a variety of screens and includes crushing as needed. Next, the materials are placed in an oven or furnace and chemicals and/or alloys are added. At this point the metal may be placed in molds and cooled by air or water. Finished products are inspected, graded, weighed, packaged and shipped. To assist in the processing function, ladles, rakes, conveyers, scales, hoist, front end loaders and forklifts may be used. This classification also includes the incidental buying and selling of scrap metal.

This classification excludes aluminum smelting operations which are to be reported separately in classification 1802; the smelting, sintering or refining of lead which is to be reported separately in classification 1801-01; the smelting, sintering or refining ores not covered by another classification N.O.C., which is to be reported separately in classification 1801-08; ore reduction which is to be reported separately in classification 1701; scrap metal dealers which are to be reported separately in classification 0604; and establishments

which compact or recycle metal containers such as aluminum or tin cans which are to be reported separately in classification 2102.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-552, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-552, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-552, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-552, filed 11/9/73, effective 1/1/74.]

WAC 296-17-55201 Classification 1802.

1802-00 Aluminum smelting

Applies to establishments engaged in the primary smelting of aluminum from alumina using an electrolytic reduction process. This classification includes the alloying and casting of sheet ingots, T-ingots, rolling ingots, notched ingots, sows, pigs, extrusion logs, extrusion billets and other primary production shapes when performed by a primary producer subject to this classification. Aluminum is produced from alumina. Alumina is extracted from bauxite which is an ore found in the earth's crust. Bauxite contains approximately 50% aluminum oxide (alumina) together with iron oxide, silica, and titanium oxide. The aluminum smelting process is two-fold; first, pure aluminum oxide is produced, then the aluminum is decomposed from the oxygen by an electrolytic treatment. The process is complex, labor intensive and power intensive. The use of an electric current causes pure aluminum to go to the cathode (part of the smelting structure) and accumulates as a layer floating on the molten salt in a large vat. This aluminum has a purity of 99.99% and is removed from time to time and cast into suitable shapes from molds.

This classification excludes secondary processors who do not reduce aluminum from alumina, but whose principle business is casting, rolling, extruding, foiling or recycling aluminum alloys from molten aluminum, primary production shapes or used scrap and dross which are to be reported separately in the applicable classification; ore reduction which is to be reported separately in classification 1701; and open pit or underground mining operations which are to be reported separately in the classification applicable to the mining being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-55201, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-55201, filed 5/31/96, effective 7/1/96; 88-06-047 (Order 87-33), § 296-17-55201, filed 3/1/88.]

WAC 296-17-555 Classification 2002.

2002-13 Freight handler services, N.O.C.

Applies to establishments engaged in packing, handling, shipping, or repackaging merchandise or freight which is owned by others and is not covered by another classification, (N.O.C.). General cargo is usually in boxes, cartons, crates, bales, or bags. Other cargo includes, but is not limited to, lumber, logs, steel, pipe, grains, produce, machinery, and vehicles. These establishments are generally located at railroad yards, airports, or warehouses not located on piers or areas adjoining piers. This classification includes the repackaging of goods from damaged containers. Employees of freight handler services perform duties such as, but not limited to, unloading, checking in and weighing goods, sorting and repackaging goods, tiering (placing in a series of rows one above the other), and reloading goods for shipment. Employments include, but are not limited to, superintendents, checkers, tally men, and lumpers. Machinery and equipment includes, but is not limited to, pallet jacks, hand trucks, forklifts, boom trucks, mobile cranes or overhead track cranes, and hand tools. This classification also includes moving or uncrating, and assembly of modular work stations or other types of office furniture.

This classification excludes drivers and freight handling employees with driving duties who are to be reported separately in classification 1102 without a division of work hours; establishments engaged in loading, unloading, or icing refrigerator cars which are to be reported separately in classification 2002-31; and establishments engaged in warehousing operations for general merchandise which are to be reported separately in classification 2102.

Special notes: Establishments engaged as freight handlers have the hazard of the continual movement of goods, in contrast to warehousing operations in classification 2102-00 that usually store goods for long periods of time. In addition, freight handling services providers do not operate warehouses and storage facilities as a general rule. Freight handling operations performed in connection with the loading or unloading of vessels or rail lines on piers or adjoining areas may be subject to coverage under the U.S. Longshore and Harbor Workers Act. Care should be exercised prior to the assignment of this classification to determine proper jurisdiction.

2002-31 Refrigeration car - loading, unloading or icing

Applies to establishments engaged in loading, unloading, or icing refrigeration cars at railroad yards, airports, or warehouses not located on piers or in areas adjoining piers. This classification includes the repackaging of goods from damaged containers. Establishments in this classification have no equity or ownership in the merchandise being handled. They may contract with customers such as, but not limited to, grocery distributors, meat packers, or pharmaceutical suppliers to pick up and deliver frozen goods. Goods are loaded into refrigerated containers and shipped by common carrier or into refrigerated railcars. Icing the refrigeration systems by adding water, ammonia, or other additives is done to maintain the cold temperatures. Machinery and equipment includes, but is not limited to, pallet jacks, hand trucks, forklifts, compressors, and hand tools.

This classification excludes drivers and freight handling employees with driving duties who are to be reported separately in classification 1102 without a division of work hours; establishments engaged in freight handler services not covered by another classification (N.O.C.) which are to be reported separately in classification 2002-13; and establishments engaged in warehousing operations for general merchandise which are to be reported separately in classification 2102.

Special notes: Establishments engaged as freight handlers have the hazard of the continual movement of goods, in contrast to warehousing operations in classification 2102-00 that usually store goods for long periods of time. In addition, freight handling services providers do not operate warehouses and storage facilities as a general rule. *Freight handling* operations performed in connection with the loading or unloading of vessels or rail lines on piers or adjoining areas

may be subject to coverage under the U.S. Longshore and Harbor Workers Act. Care should be exercised prior to the assignment of this classification to determine proper jurisdiction.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-555, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-555, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 54.16.035. 93-12-093, § 296-17-555, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-555, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-555, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-555, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-555, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-555, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-555, filed 11/9/73, effective 1/1/74.]

WAC 296-17-557 Classification 2004.

2004-21 Iron or steel merchants; wire rope and cable dealers

Applies to establishments engaged as iron or steel merchants or as dealers of wire rope, cable, or metal conduit. This classification includes the merchandising of nonferrous metals such as, but not limited to, copper, brass, or aluminum. This classification is distinguished from scrap metal dealers in classification 0604 who deal primarily in used metal as opposed to merchants in classification 2004 who sell new goods. Iron or steel merchants receive metal in the form of beams, sheets, plates, bars, rods, pipe, rounds, channels, angles, tubes, or coils from the mills which they unload with overhead cranes, and store them in their shop or yard. Using power equipment such as shearers, hacksaws, drills, benders, and cutting torches, they are cut, sheared, and formed to customer specifications. Wire rope and cable dealers use coilers to wind the wire rope or cable from large spools onto smaller spools, and use saws or other cutting tools to cut it to length and large hydraulic presses to attach sockets, pulleys and other hardware to wire rope to form rigging used by the fishing, logging, and construction industry.

This classification excludes scrap metal and junk dealers which are to be reported separately in classification 0604, and rebar fabricators which are to be reported separately in classification 5209.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-557, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-557, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-557, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-557, filed 11/9/73, effective 1/1/74.]

WAC 296-17-560 Classification 2007.

2007-02 Grain elevator or warehouse

Applies to establishments engaged in providing grain elevator or warehouse facilities. These facilities may range from hundred thousand bushel country elevators to multimillion bushel terminal elevators, the latter of which are located near railroad lines or seaports. Grain may be stored in elevators for years, depending on market conditions. Grain elevators operate year round or seasonally and may offer a variety of services ranging from storage only to grain milling (see exclusions below). Typical operations in this classification include weighing, grading, cleaning and drying of the grain, and conveyance to the storage lofts. Most grain elevators also provide a brokerage service for their customers.

This classification excludes grain milling which is to be reported separately in classification 2101 and bean or pea elevators which are to be reported separately in classification 2007-03.

2007-03 Bean or pea elevator or warehouse

Applies to establishments engaged in providing bean or pea elevator or warehouse facilities. Bean or pea elevators run all year round or seasonally and may offer a variety of services ranging from storage only to brokerage services. Typical operations in this classification include weighing, grading, cleaning and drying of the bean or pea, and conveyance to the storage lofts.

This classification excludes seed merchants who are to be reported separately in classification 2101; grain elevators which are to be reported separately in classification 2007-02; and vegetable cannery or processing operations and pea vining by cannery employees which are to be reported separately in classification 3902.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-560, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-560, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-560, filed 11/24/75, effective 1/1/76; 73-22, § 296-17-560, filed 11/9/73, effective 1/1/74.]

WAC 296-17-561 Classification 2008.

2008-01 Warehouses - field bonded

Applies to establishments engaged in providing bonded warehouse services at the customers location. Field bonding involves appropriating a warehouse (or portion of one), that is owned by the customer, for the purpose of segregating and securing a portion of that customer's merchandise to be used as collateral for a bank loan. The field bonding company will catalog the merchandise that is involved in the transaction, issue a receipt (the receipt is presented as collateral for the loan), and ensure its security and value for the length of the contract. The field bonding company is not responsible for the maintenance of the facility and doesn't become involved in handling, moving or shipping the goods. Work contemplated by this classification is limited to employees who catalog the goods being held, security guards, and clerical help employed at the secured location.

This classification excludes drivers who are to be reported separately in classification 1102.

Special note: Traditional warehousing establishments (such as those described in classification 2102) may be "bonded" in that they can assure their customers that goods regulated by the Bureau of Alcohol, Tobacco and Firearms, or goods awaiting inspection by U.S. Customs, will remain secured. This type of bonding is similar in that it is an assurance of value and safekeeping, but differs from classification 2008 in that the goods are delivered to, and held at, the warehouse company's own facility.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-561, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-561, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-561, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-561, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-561, filed 11/9/73, effective 1/1/74.]

WAC 296-17-56101 Classification 2009.

2009-00 Building material dealers and lumber yards

Applies to establishments engaged as building material dealers or lumber yards. For purposes of this classification the term "building materials" includes, but is not limited to, such items as wallboard, roofing, insulation, sheet metal, bricks, blocks, windows, fixtures, cabinets, doors, linoleum, tile, paneling, interior wood and plastic trim and molding, concrete mix, pipe, plumbing, and electrical supplies. In addition, such establishments often carry a variety of paints and accessories, garden tools and accessories, and hardware items such as nails, nuts and bolts, tools, hinges, doorknobs, locks, and more. It is not uncommon for a building material dealer to specialize and sell only one of the above types of items. Establishments engaged as lumber yards carry a diverse line of wood and lumber products and usually with sufficient quantity to build an entire wood structure. This line of wood and lumber products could include beams, planks, boards, plywood, an array of dimensional lumber (1x2, 2x4, 2x12, etc.), fence posts, railroad ties, shakes and shingles, siding, wood paneling, as well as interior wood trim and molding. Such establishments often carry a variety of other building materials such as electrical supplies, pipe and plumbing supplies, fixtures, cabinets, doors, windows, wallboard, insulation, linoleum, tile, paneling, bricks, blocks, concrete mix, roofing materials, sheet metal and more. These establishments often utilize one or more covered sheds to protect less durable materials from the outside climate, and will also utilize an uncovered open yard type of environment for storage of more durable wood, lumber, and building materials. In addition, such establishments could also have an inside store operation to include a variety of items such as hand and power tools, table saws, paints and varnishes, caulking, and a variety of hardware type items such as nails, nuts and bolts, hinges, doorknobs, locks, and more. This classification also includes retail/wholesale fence material dealers. This classification includes all store and yard operations and the transfer of materials or inventory between related stores.

This classification excludes delivery drivers (other than those involved in intrastore or intrayard transfers mentioned above) who are to be reported separately in classification 1101; nondelivery activities conducted away from the store or yard; hardware stores with building materials or lumber which are to be reported separately in classification 2009-03; and warehouse centers which are to be reported separately in classification 2009-05.

2009-01 Electrical supply dealers

Applies to establishments engaged as electrical hardware and supply dealers who primarily sell electrical hardware and supplies in bulk to the contractor trades, such as electrical and construction, although sales also may be made to individuals for their own use. Supplies are typically received in bulk quantity and may include, but are not limited to, spools of electrical wiring and cable, wiring harnesses, plastic and flex hosing, panel boxes, brackets, electrical outlet boxes, fuses, switches, plates, and residential and commercial canisters and light fixtures. This classification includes all store and yard operations and the transfer of materials or inventory between related stores.

This classification excludes delivery drivers (other than those involved in intrastore or intrayard transfers mentioned above) who are to be reported separately in classification 1101; nondelivery activities conducted away from the store or yard; all service or repair work which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location; retail lighting fixture stores which demonstrate lights and fixtures to walk-in customers which are to be reported separately in classification 6406; and establishments engaged as wholesale lighting fixture and light bulb dealers who buy direct from manufacturers and who sell wholesale to retail lighting fixture stores or other such stores or institutions who are to be reported separately in classification 6407.

2009-02 Farm supply stores

Applies to establishments primarily engaged in operating farm supply or farm cooperative stores. These establishments carry a diverse line of farm feeds, products, and accessories. Typical items may include, but are not limited to, bulk quantities of mixed and unmixed feeds, seeds, oats and grains; bales of alfalfa or hay; bag feed for dogs, cats, chickens, birds, and other animals; bulk and bag fertilizers; pesticides and other garden items including peat moss and bark; animal grooming and care accessories; horse tack; specialty clothing; feed and water bins; metal fencing and grates for livestock; fence posts; barbed wire; pumps and piping; hardware and tools; automotive and tractor parts and accessories; and miscellaneous homeowner or yard equipment such as mowers, rototillers, and a variety of small tractors and accessories. This classification includes all store and yard operations and the transfer of materials or inventory between related stores.

This classification excludes delivery drivers (other than those involved in transferring materials or inventory between related stores) who are to be reported separately in classification 1101; all other nondelivery activities conducted away from the store or yard; all service or repair work which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location; and establishments primarily engaged in the sale, service and/or repair of farm machinery and implements which are to be reported separately in classification 6408.

Special note: Farm supply or farm cooperative stores may conduct additional operations which are to be reported separately. These activities may occur at a single location operated by the business or at separate locations and may include an oil or gas dealership which is to be reported separately in classification 3407; self-service gas or diesel stations which are to be reported separately in classification 3409; or agricultural fertilizer dealers (not including the manufacture of raw materials) which are to be reported separately in classification 2106.

2009-03 Hardware stores with lumber or building material supplies

Applies to establishments engaged in operating hardware stores that also sell building material supplies. For purposes of this classification the term "building materials" includes, but is not limited to, such items as wallboard, roofing, insulation, sheet metal, bricks, blocks, and windows, cabinets, doors, windows, sheet metal, roofing materials, concrete mix, boards, plywood, dimensional lumber (1x2,

2x4, 2x12, etc.), fence posts, railroad ties, siding, and wood paneling, as well as interior wood trim and molding. The merchandise carried will vary from store to store. For the purposes of this classification, hardware includes items such as, but not limited to, nails, nuts, bolts, screws, door fixtures, hinges, locks, power and hand tools, garden tools and accessories, electrical and plumbing supplies, and paint and automobile supplies. Depending on their location and customer base, hardware stores may also sell a limited selection of giftware, housewares, sporting goods, athletic equipment, games or similar items. Other services provided could include making keys, threading pipe, mixing paint, and the sale of fishing or hunting licenses. This classification includes all store and yard operations and the transfer of materials or inventory between related stores.

This classification excludes delivery drivers (other than those involved in transferring materials or inventory between related stores) who are to be reported separately in classification 1101; all other nondelivery activities conducted away from the store or yard operation; and all service or repair work which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location.

Special note: Hardware stores with lumber or building material supplies are smaller and offer a smaller product selection than warehouse centers which are reported separately in classification 2009-05. Establishments primarily engaged as building material dealers and lumber yards are to be reported separately in classification 2009-00.

2009-04 Pump, plumbing, irrigation, and pipe supply dealers

Applies to establishments engaged as pump, plumbing, irrigation, and pipe supply dealers. Merchandise includes, but is not limited to, pumps, above and below ground irrigation systems and supplies, pipe, fittings, elbows, adapters, connectors, hoses, valves, water softeners, filters, disposals, hot water tanks, heaters, sinks, tubs, toilets, and shower units. Merchandise is typically received in bulk quantity by the pallet, sling, crate or box. Merchandise is sold primarily to plumbing and irrigation contractors. This classification includes all store and yard operations, including showrooms or display areas and in-shop services such as the rebuilding or repair of pumps, and cutting and threading pipe. Also included in this classification is the transfer of product or material inventory between related stores.

This classification excludes delivery drivers who are to be reported separately in classification 1101; all other nondelivery activities conducted away from the store or yard; and all service or repair work not described above which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location.

2009-05 Warehouse centers

Applies to establishments engaged in operating warehouse centers with lumber or building material supplies. For purposes of this classification a warehouse center is an enclosed building or structure which serves to protect the majority of the items or products contained within the warehouse environment. Warehouse centers are larger than traditional hardware stores and offer a wider product selection. A dominant characteristic of a warehouse center is that excess stock is stacked up to 25 feet high throughout the building. The term "building materials" as used in this classification includes, but is not limited to, such items as wallboard, roofing, insulation, sheet metal, bricks, blocks, and windows. Merchandise carried by warehouse centers may include hardware, variety items, building materials, as well as wood or lumber. Hardware items may include such items as nails, nuts, bolts, door fixtures, hinges, locks, hand or power tools, garden tools, garden supplies and accessories, lawn mowers, electrical supplies, plumbing supplies, paint, and auto supplies. Variety items may include giftware, housewares, sporting goods, athletic equipment, games, rugs, and lawn chairs. Wood and lumber products may include beams, planks, boards, plywood, dimensional lumber (1x2, 2x4, 2x12, etc.), fence posts, railroad ties, shakes and shingles, siding, and wood paneling. This classification includes all store and yard operations and the transfer of materials or inventory between related stores.

This classification excludes delivery drivers (other than those involved in transferring materials or inventory between related stores) who are to be reported separately in classification 1101; all other nondelivery activities conducted away from the store or yard; and all service or repair work which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location.

Special note: Hardware stores with lumber or building material supplies are smaller and offer a smaller product selection than warehouse centers and are reported separately in classification 2009-03. Establishments primarily engaged as building material dealers and lumber yards are to be reported separately in classification 2009-00.

2009-06 HVAC supply dealers

Applies to establishments engaged as heating, ventilation, and air conditioning product and supply dealers. Merchandise includes, but is not limited to, furnace units, gas fireplaces, air conditioning and heater units, hot water tanks, thermostats, vents, venting duct and pipe, vent collars and reels, registers, fittings, adapters, galvanized pipe, insulation wrap, preformed or bent duct portions, flat sheets of metal, concrete pads and gas logs. Merchandise is typically received in bulk quantity by the pallet, sling, crate or box. Merchandise is primarily sold to heating and ventilation contractors, furnace contractors and sheet metal contractors. This classification includes all store and yard operations and the transfer of product or material inventory between related stores.

This classification excludes sheet metal fabrication shops which are to be reported separately in classification 3404; delivery drivers (other than those involved in intrastore or intrayard transfers) who are to be reported separately in classification 1101; all other nondelivery activities conducted away from the store or yard; and all service or repair work which is to be reported separately in the applicable classification whether it is conducted at the store or a customer's location.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56101, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-56101, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-56101, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-56101, filed 5/31/93, effective 7/1/93.]

WAC 296-17-562 Classification 2101.

2101-00 Grain milling; flour mills; feed mills; feed manufacturing

Applies to establishments engaged in milling grain into flour or meal or in the manufacture of dry (powdered, granule or pellet) feed. Operations contemplated by this classification include the receipt of grain (wheat, barley, oats, corn) in bulk or bag which is purchased from others, grinding or milling the grain to either a coarse or a fine powder, adding binder (molasses), adding and mixing ingredients (depending on product being made), and packaging. This classification includes delivery of products in packaged or bulk form to customers.

This classification excludes establishments engaged in the further processing of flour or meal to manufacture food products which are to be reported separately in the applicable food manufacturing classification, and establishments engaged in the manufacture of canned animal food which are to be reported separately in classification 3902.

2101-01 Hay, grain or feed dealers

Applies to establishments engaged in the sale of grain, feed, and hay to others. Operations contemplated by this classification are limited to the purchase of hay, grain, or feed in bulk from others and the subsequent resale of these items in bulk to others. Establishments subject to this classification may have a small store operation, a substantial storage facility, or they may haul product from location to location all of which are included within the scope of this classification when done by employees of employers subject to this classification.

This classification excludes the sale of hay by farm operations which is to be reported separately in classification 4808, and establishments engaged in the manufacture of animal feed which are to be reported separately in classification 2101-00.

2101-02 Seed processing

Applies to establishments engaged in the processing of agricultural seeds for wholesale or retail sales. These establishments receive produce such as wheat, barley, alfalfa, lentils, vegetables, fruit or flowers from farmers the seed company has contracted with, or in the case of larger seed companies, they may have their own fields for raising the seed crop. Work contemplated by this classification includes, but is not limited to, cleaning, grading, crushing, separating, and packaging of the product (either by hand or by machine). Machinery includes, but is not limited to, screening machines, air gravity separators, clippers, tumbling drums for polishing, and bagging machines. This classification also includes trial plots or lab research facilities used to develop new seed hybrids and improve existing varieties, consultation services provided to the farmers during planting and harvesting seasons, and custom milling work conducted at the farmer's premises. Also included in this classification are establishments engaged exclusively in providing grain or seed drying services.

This classification excludes growing of seeds, other than on a trial plot, which is to be reported separately in the appropriate agricultural classification; merchants engaged in hand packaging seeds that have been processed by others who are to be reported separately in classification 6309-06; grain milling which is to be reported separately in classification 2101-00; hay/grain/feed dealers which are to be reported separately in classification 2101-01; and grain or bean/pea elevators which are to be reported separately in classification 2007.

2101-05 Hop pellet manufacturing

Applies to establishments engaged in the manufacture of hop pellets. Hop pellets are one of several ingredients used by breweries in the manufacture of beer and ale. Operations contemplated by this classification include, but are not limited to, cold storage room operations where bales of hops are kept, bale breaking and grinding of hops into powder, blending of powders and additives, testing of hops, pelletizing, packaging, and shipping. Establishments subject to this classification may own the hops or do custom blending for others.

This classification excludes establishments engaged in the manufacture of hop extract which are to be reported separately in classification 3701.

Special note: Hop pellets are often referred to as a flavoring so care should be taken, when another classification is being considered, to determine the process used.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-562, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-562, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 54.16.035. 93-12-093, § 296-17-562, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-562, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-562, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-562, filed 11/9/73, effective 1/1/74.]

WAC 296-17-563 Classification 2102.

2102-00 Warehouses - general merchandise

Applies to establishments operating as warehouses for general merchandise. This merchandise belongs to a customer and is usually stored for long periods of time. Products typically involved are bulk, nonperishable materials which might include, but not be limited to, rice, coffee, potatoes, or dry cement. Work contemplated by this classification includes, but is not limited to, unloading deliveries, moving merchandise within the facility, recordkeeping, security, and maintaining the facility. Equipment and machinery used includes pallet jacks, forklifts, routine maintenance, cleaning and recordkeeping supplies, and shop vehicles.

This classification excludes delivery drivers who are to be reported separately in classification 1102; wholesale dealers who operate a warehouse for storage of their own product which is to be reported separately in the classification applicable to the product being sold; warehousing of household furnishings by a moving and storage company which is to be reported separately in classification 6907; cold storage plants which are to be reported separately in classification 4401; mini-storage warehousing which is to be reported separately in classification 4910; field bonded warehouses which are to be reported separately in classification 2008; and the warehousing of a manufacturer's own product which is to be reported separately in the manufacturing classification applicable to the work being performed.

Special note: Even though this type of operation may handle some "grocery" products, it differs from 2102-11 in that the products being handled in 2102-00 are in bulk pack-

aging (not cases of consumer-size packages), do not belong to the business that is warehousing them, and are not intended for sale to a wholesaler/retailer.

2102-04 Recycle, collection and receiving stations; rags, bottles, paper and metal container dealers, N.O.C.

Applies to establishments engaged in the collection of used paper, aluminum, tin, glass, and plastic for the purpose of selling the material to another business that will recycle/remanufacture it into new products. These facilities normally acquire material by placing collection bins at various remote locations, operating a drop-off center (this phase of the business is known in the trade as a "buy back center"), and employing drivers to pick up from businesses. Work contemplated by this classification includes, but is not limited to, sorting material, operating various pieces of equipment used to crush, reduce, wash, and bale material, weighing containers, paying customers for receipt of items that have a redemption value by the pound or piece ("buying back"), and operating shop or yard vehicles. Machinery and equipment includes, but is not limited to, shredders, balers, can crushers, weigh scales, forklifts, collection bins, shop or yard vehicles, and rolloff trucks to handle the collection bins. This classification includes dealers of rags, bottles, paper and metal containers not covered by another classification (N.O.C.)

This classification excludes drivers who are to be reported separately in classification 1102 and establishments engaged in collecting, sorting and reducing scrap metal such as junk dealers, scrap metal dealers or processors, which also receives glass, paper, plastic, etc., which are to be reported separately in classification 0604.

Special note: Classification 2102-04 should not be assigned to an employer who also operates a business subject to classification 4305-18 (Garbage, refuse or ashes collecting) without careful review and an on-site survey. Most garbage collecting businesses have some type of "recycle" program as part of their normal operations in an effort to sort and reduce the amount of waste that goes to landfills and this is considered an inclusion.

2102-11 Grocery, fruit or produce distributors - wholesale or combined wholesale and retail

Applies to establishments engaged in the wholesale, or wholesale/retail, distribution of a variety of grocery items, fruit and produce. A business in this classification buys products from the manufacturer and sells to retail grocery stores, restaurants, and similar businesses. Grocery items may include, but not be limited to, packaged foods, frozen foods, household cleaning supplies, paper products, personal care items, beer, soda, and dairy products. Work contemplated by this classification includes, but is not limited to, unloading deliveries, moving merchandise within the facility, incidental repackaging, breakdown of merchandise into smaller lots, recordkeeping, security, and maintaining the facility. Equipment and machinery includes, but is not limited to, pallet jacks, forklifts, strapping and shrink wrapping equipment, and vehicles.

This classification excludes delivery drivers who are to be reported separately in classification 1101; any general merchandise warehouse operations in which the operator of the warehouse does not own the merchandise being handled and it is in bulk quantities, which is to be reported separately in classification 2102-00; cold storage plants handling food products which are to be reported separately in classification 4401; operations specializing in vegetable/fruit packing for wholesale distribution which are to be reported separately in classification 2104; operations specializing in wholesale distribution of beer, wine, ale or soft drinks which is to be reported separately in classification 2105; field bonded warehouses which are to be reported separately in classification 2008; and the warehousing of a manufacturer's own product which is to be reported separately in the manufacturing classification applicable to the work being performed.

2102-28 Wool or cotton merchants

Applies to establishments operating as wool or cotton merchants. Merchants subject to this classification buy raw wool or cotton from others, do incidental sorting, grading and repackaging, and sell the product to another business for use as a raw material to make products such as yarn, thread or fabric. Work contemplated by this classification includes, but is not limited to, unloading deliveries, moving merchandise within the facility, hand sorting the product by grade (quality), repackaging, recordkeeping, security, and maintaining the facility. Equipment and machinery includes, but is not limited to, pallet jacks, forklifts, repackaging equipment and vehicles.

This classification excludes drivers who are to be reported separately in classification 1102; wholesale dealers of a finished wool or cotton product which are to be reported separately in the classification applicable to the product; and the warehousing of a manufacturer's own product which is to be reported separately in the manufacturing classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-563, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-563, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-563, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-563, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-563, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-563, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-563, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-563, filed 11/13/80, effective 1/1/81; Order 77-27, § 296-17-563, filed 11/30/77, effective 1/1/78; Order 75-38, § 296-17-563, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-563, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-563, filed 11/9/73, effective 1/1/74.]

WAC 296-17-564 Classification 2104.

2104-01 Vegetable packing - fresh

Applies to establishments engaged in the packing of fresh vegetables. These operations are usually located in produce growing areas and are generally seasonal. The vegetables are generally brought to the packing plant by the farmer or co-op drivers, but some packing plants may employ their own drivers to pick up the product from the local farms or co-op. Typical activities of the packing operation include, but are not limited to, sorting, grading, cleaning, trimming, packing and shipping of the vegetables. Various packing containers such as plastic bags, boxes, barrels, crates, and baskets may be used. The packing may be done by hand for fragile vegetables or by machine for the more sturdy produce. This classification includes cold storage operations if it is used solely for the storage of their own produce. Drivers employed

by these establishments who pick up the vegetables from the farmer or deliver the packaged product to the market are included in this classification. When an establishment is engaged in both fresh vegetable and fresh fruit packing a determination needs to be made as to which produce is the majority of their business in order to assign the appropriate classification. A farm operation that grows and packs their own fresh vegetables or packs other farms' fresh vegetables in addition to their own is to be assigned this classification (2104) for the packing operation. However, if the farmer only sorts and stores the fresh vegetables, the appropriate agricultural classification is applicable to both the growing and sorting/storage operations. This classification also includes establishments engaged in seed potato processing. These processors will pick the potatoes up from the farmer and take them to their processing plant where the potatoes are washed and chopped up by machine on a conveyor belt. The seeds are then removed by hand using a knife. After the processing is completed the seeds are returned to the farmer for future crops.

This classification excludes fresh fruit packing which is to be reported separately in classification 2104-02; cannery or freezing operations and/or any processing of the vegetables which are to be reported separately in classification 3902; and cold storage operations not exclusively part of a packing operation which are to be reported separately in either classification 4401 or 4404.

2104-02 Fruit packing - fresh

Applies to establishments engaged in the packing of fresh fruit. These operations are usually located in produce growing areas and generally are seasonal. The fruit may be brought to the packing plant by the farmer or co-op drivers, but some packing plants may employ their own drivers to pick up the product from the local farms or co-op. Typical activities of the packing operation include, but are not limited to, sorting, grading, cleaning, trimming, packing and shipping the fruit. Various packing containers such as plastic bags, boxes, barrels, crates and baskets may be used. The packing may be done by hand for fragile fruit or by machine for the more sturdy produce. This classification includes any cold storage operations if it is used solely for the storage of their own produce. Drivers employed by these establishments who pick up the fruit from the farmer or deliver the packaged product to the market are included in this classification. When an establishment is engaged in both fresh fruit and fresh vegetable packing a determination should be made of which produce is the majority of their business to assign the appropriate classification. A farm operation that grows and packs their own fresh fruit, or packs other farms' fresh fruit in addition to their own, is to be assigned this classification (2104) for the packing operation. However, if the farmer only sorts and stores the fresh fruit the appropriate agricultural classification is applicable to both the growing and sorting/storage operations.

This classification excludes fresh vegetable packing which is reported separately in classification 2104-01; cannery or freezing operations and/or any processing of the fruit which are to be reported separately in classification 3902; and cold storage operations not exclusively part of a packing operation which is reported separately in either classification 4401 or 4404.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-564, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-564, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-564, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-564, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-564, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-564, filed 11/9/73, effective 1/1/74.]

WAC 296-17-56401 Classification 2105.

2105-00 Beer, ale, wine and soft drink importers, exporters and distributors - wholesale or combined wholesale and retail

Applies to establishments engaged in wholesale, or combined wholesale and retail, distribution of beer, ale, wine and soft drinks. These establishments carry a wide selection of soft drinks, domestic and import beers, ales, and wine, as well as beer pumps and ice. Product stock is received directly from the breweries, wineries, manufacturers or larger distributors, and stored in warehouses or refrigerated storerooms on pallets, in crates, boxes, cases, cartons, kegs or canisters. Stock is then distributed to customers such as, but not limited to, restaurants, lounges and bars, hotels, grocery stores, or other commercial businesses. This classification includes route drivers and driver's assistants.

This classification excludes establishments engaged in the installation, service and repair of vending machines which are to be reported separately in classification 0606, and breweries, wineries, and beverage bottlers, N.O.C. which are to be reported separately in classification 3702.

Special notes: Classifications 2105 and 3702 shall not be assigned to the same account unless each operation is conducted as a separate and distinct business and the conditions set forth in the general reporting rule covering the operation of a secondary business have been met.

2105-01 Beer, ale and wine importers, exporters and distributors - wholesale or combined wholesale and retail

Applies to establishments engaged in wholesale, or combined wholesale and retail, distribution of beer, ale and wine, but not in soft drink beverages. These establishments carry a wide selection of domestic and import beers, ales or wines, as well as beer pumps and ice. Product stock is received directly from the breweries, wineries, manufacturers, or larger distributors and stored in warehouses or refrigerated storerooms on pallets, in crates, boxes, cases, cartons, kegs or canisters. Stock is then distributed to customers such as, but not limited to, restaurants, lounges and bars, hotels, grocery stores, or other commercial businesses. This classification includes route drivers and driver's assistants.

This classification excludes establishments engaged in the installation, service and repair of vending machines which are to be reported separately in classification 0606, and breweries, wineries and beverage bottlers, N.O.C. which are to be reported separately in classification 3702.

Special notes: Classifications 2105 and 3702 shall not be assigned to the same account unless each operation is conducted as a separate and distinct business and the conditions set forth in the general reporting rule covering the operation of a secondary business have been met.

2105-02 Soft drink importers, exporters and distributors - wholesale or combined wholesale and retail

Applies to establishments engaged in wholesale, or combined wholesale and retail, distribution of soft drink beverages but not alcoholic beverages. Product stock is received directly from the manufacturers or larger distributors and stored in warehouses or refrigerated storerooms on pallets, in crates, boxes, cases, cartons, or canisters. Stock is then distributed to customers such as, but not limited to, restaurants, lounges and bars, hotels, grocery stores, or other commercial beverages. This classification includes route drivers and driver's assistants.

This classification excludes establishments engaged in the installation, service and repair of vending machines which are to be reported separately in classification 0606, and establishments that bottle beverages which are to be reported separately in classification 3702.

Special note: Classifications 2105 and 3702 shall not be assigned to the same account unless each operation is conducted as a separate and distinct business and the conditions set forth in the general reporting rule covering the operation of a secondary business have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56401, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-56401, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-56401, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-56401, filed 2/28/85, effective 4/1/85; 81-24-042 (Order 81-30), § 296-17-56401, filed 11/30/81, effective 1/1/82.]

WAC 296-17-56402 Classification 2106.

2106-00 Fertilizer, anhydrous ammonia and agricultural chemical dealers

Applies to establishments engaged in the sale of fertilizer, anhydrous ammonia, and agricultural chemicals. This classification includes the mixing of wet or dry chemical fertilizers all of which fall into one of three categories: Nitrogen, phosphate or potassium. Fertilizer dealers may use a chemical or mechanical process to mix one or more of the basic fertilizers or combine portions of each per customer specifications. Included in this classification is the manufacture, distribution, and application of anhydrous ammonia which is dry ammonia gas compressed into a liquid and used as a fertilizer. Also included in this classification are establishments that sell and distribute "natural" fertilizers (manure). Typical establishments in this classification include, but are not limited to, commercial fertilizer dealers, farmer co-ops, and grange supply dealers which may do some chemical mixing but are more predominately involved in the sales and delivery of the fertilizer.

This classification excludes the mining of raw ores (phosphate and potassium) used in *manufacturing* the fertilizer which is to be reported separately in classification 1701; the manufacture of ammonia and nitric acid which is to be reported separately in classification 3701; and the application of fertilizer by a custom farm services contractor which is to be reported separately in classification 4808.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56402, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-56402, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-56402, filed 5/31/88, effective 7/1/88.]

WAC 296-17-565 Classification 2201.

2201-01 Laundry, dry cleaning and dyeing establishments

Applies to establishments engaged in laundry, dry cleaning, or dyeing services. This classification is limited to establishments providing services primarily to retail walk-in customers who leave the items to be laundered, dry cleaned, or dyed at the laundry facility. This classification covers all operations including, but not limited to, dry cleaning, dyeing, the washing, drying, and pressing of clothing or household furnishings such as, but not limited to, curtains, bedding, linens, and sleeping bags, repairing or altering the items left for cleaning, pick up and delivery services, and drop off stations. These establishments generally employ counter staff to wait on customers as well as employees who engage in laundering and/or dry cleaning operations (although some employees may perform both activities). This classification also includes waterproofing or mothproofing garments, or providing cold storage for fur goods for retail customers. Materials and machinery include, but are not limited to, detergents, bleaches, cleaning solvents, deodorizers, dyes, clothes hangers, plastic bags, automatic or steam operated washing machines, dryers, dry cleaning chambers, dyeing vats, pressing and ironing boards, sewing machines, and delivery vans.

This classification excludes self-service, coin-operated laundry or dry cleaning establishments which are to be reported separately in classification 2204; commercial or industrial laundries not covered by another classification, including linen, uniform and diaper services which are to be reported separately in classification 2203; and carpet, rug and upholstery cleaning establishments which are to be reported separately in classification 2202.

Special note: It is common for establishments subject to this classification to have satellite locations where customers drop off and pick up cleaning, but where no actual laundering occurs. Drop off centers are included in this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-565, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-565, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-565, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-565, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-565, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-565, filed 11/9/73, effective 1/1/74.]

WAC 296-17-566 Classification 2202.

2202-03 Carpet, rug, and upholstery cleaning

Applies to establishments engaged in cleaning rugs, carpets, or upholstery for commercial, institutional or residential customers. This classification contemplates work done either at the customer's location or in their own shop or plant. In-shop cleaners usually clean area rugs, and may occasionally clean furniture upholstery. Items are picked up by employees or delivered to the shop, where they are measured and inspected for tears, worn areas, stains or other damage. Rugs may be cleaned with vibrating machines, vacuum cleaners, or shampooing machines. Cleaned rugs are suspended from poles and conveyed into the drying room where large fans propel heated air to dry them. Once dry, the rugs are inspected, rolled, wrapped, and returned to the customer or stored until the customer requests delivery. Services at customers' location may use truck-mounted or portable cleaning equipment. Carpet and upholstery cleaning services may

offer incidental, related services such as, but not limited to, carpet dyeing and tinting, repairs, carpet maintenance consultations, rug decontamination, on-site dry cleaning of draperies, floor or wall cleaning, the rental of cleaning equipment, or the sale of cleaning solutions. These incidental activities are included in this classification when done by employees of employers subject to this classification.

This classification excludes janitorial establishments that provide general interior cleaning services to the public which are to be reported separately in classification 6602, and laundry and dry cleaning establishments providing services primarily to retail walk-in customers which are to be reported separately in classification 2201.

Special note: Restoration work (as a result of smoke or water damage) such as drying and/or cleaning carpets and upholstered furniture, washing and polishing furniture, washing walls, washing and waxing floors, and cleaning the personal contents of a home is included in classification 6602-03. Refer to classification 6602-03 for more detailed information on restorations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-566, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-566, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-566, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-566, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-566, filed 11/9/73, effective 1/1/74.]

WAC 296-17-56601 Classification 2203.

2203-00 Laundries - commercial or industrial: N.O.C.

Applies to establishments engaged in laundering operations which are not covered by another classification (N.O.C.). In addition to linen, uniform or diaper services, these establishments may launder other goods such as, but not limited to, protective apparel (flame, heat, or chemical resistant), dust control items (treated mops, rugs, mats, dust cloths), and wiping towels. These items may belong to the commercial or industrial laundry and rented to users, or they may be the customers' own goods. Operations include, but are not limited to, soliciting new customers by route supervisors or drivers, collecting and delivering, marking, weighing and sorting laundry, washing, extracting, tumbling, starching, drying, machine or hand ironing, making repairs or alterations, folding and wrapping. This classification also contemplates employees such as counter personnel, receiving clerks, sorters and markers at collection or distribution stores operated on the premises where laundering is performed.

This classification excludes laundry and dry cleaning establishments providing services primarily to retail walk-in customers which are to be reported separately in classification 2201; self-service, coin-operated laundry or dry cleaning establishments which are to be reported separately in classification 2204; and carpet, rug and upholstery cleaning establishments which are to be reported separately in classification 2202.

Special note: This classification also covers establishments specializing in stone washing jeans or "contract dyeing" for commercial or industrial businesses and the cleaning of nonfabric items, such as venetian blinds, plastic goods or computer parts when done at the laundry facility.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56601, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-56601, filed 5/29/87, effective 7/1/87.]

WAC 296-17-56602 Classification 2204.

2204-00 Laundry or dry cleaning - coin-operated, self-service operations

Applies to establishments engaged in the operation of coin (or card) operated self-service laundry and dry cleaning equipment for customers' use on the premises. Most facilities have an attendant(s) on duty at all times; others may have only periodic surveillance by the owner or employees. Attendants generally ensure there are no problems with the equipment or with vandalism; they may perform minor repair or adjustments on the machines, assist patrons by carrying laundry or explaining the operation of the machines. There is usually a small waiting area which may include benches and chairs, change-making machines, vending machines with food and laundry supplies. Materials include, but are not limited to, detergents, bleaches, fabric softeners, dry cleaning solvents, spot-removing fluids, plastic bags, and hangers. Machinery includes, but is not limited to, residential or commercial sized washers and dryers, dry cleaning machines, pressing machines, irons, coin changing machines, tables for folding clothing, chairs, hanger racks, water heating and storage system, solvent reclaiming units, and solvent storage tanks.

This classification excludes laundry and dry cleaning establishments providing services primarily to retail walk-in customers which are to be reported separately in classification 2201, and commercial or industrial laundries not covered by another classification, including linen, uniform and diaper service which are to be reported separately in classification 2203.

Special note: This classification includes self-service/coin-operated cleaning facilities that offer dry cleaning services where the customers leave their clothing with the attendant and it is sent elsewhere for professional dry cleaning. This classification does not apply to any self-service/coin-operated cleaning facilities where the attendant performs any washing, drying, dry cleaning, hanging, or folding services on the premises which are to be reported separately in classification 2201.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56602, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-56602, filed 5/31/96, effective 7/1/96.]

WAC 296-17-567 Classification 2401.

2401-00 Paper, pulp, or wood fiber: Manufacturing

Applies to establishments engaged in making paper from raw materials such as, but not limited to, wood chips, cotton fiber, water, kraft paper, recycled paper, bleach and dye purchased from outside sources. This classification includes the mashing of wood chips into fiber. Paper manufacturers may make finished products from the paper they manufacture which is included in this classification when done by employees of employers subject to this classification. Equipment includes, but is not limited to, large vats and tanks, spraying systems, choppers, paper-making machines, conveyor systems, forklifts, scales, winders, rewinders, and cutting

machinery. Modern automated paper mills are monitored from computerized control rooms; many of the employees are electricians and control technicians. Wood chips are heated, washed, drained, impregnated with chemicals to separate natural binder fibers from the cellulose fibers, then chopped into tiny particles and further cleansed. Bleach and water are added again and the fibrous mixture is held in tanks to relax and fluff it to a natural state before going to a filtering process where the water is removed, allowing it to coagulate. More ingredients are added to increase strength, then the mixture is sprayed onto the paper-making machinery where it winds through the various sections at high speed. During the first stage the pulp is mostly water; as it spins on the wire mesh, the water is suctioned out and the paper winds around felt-covered rollers. The machine moves the paper through an enclosed, heated room (oven) and dried. The dried paper is rolled from the oven, smoothed on rollers, then rewound into smaller rolls and cut into desired lengths and widths.

This classification excludes establishments engaged in the manufacture of wood chips which are to be reported separately in classification 2903 and establishments engaged in the manufacture of abrasive cloth or paper (emery cloth/sandpaper) which are to be reported separately in classification 3708.

2401-03 Corrugated and fiber board container: Manufacturing

Applies to establishments engaged in the manufacture of boxes and cartons made of corrugated cardboard. Manufacturers subject to this classification may either corrugate cardboard for use in their own products or purchase corrugated cardboard from others. Applying coatings or laminating their own products is included in this classification when done by employees of employers subject to this classification. Raw materials include, but are not limited to, corrugated cardboard, glue, staples, tape, ink, and coating resins. Machinery includes, but is not limited to, sheeters, slitters, slotters, winders or rewinders, printing presses, box-making machinery, die cutters or other cutting machines, laminators, corrugators, balers and shredders, and forklifts. Cardboard is cut to size and shape, printed, scored or creased, corners cut or slotted, sides folded and bottom pieces taped together. Box manufacturers may cut Styrofoam into packing pieces if their customers want them as a packaging unit. This incidental activity is included within the scope of this classification when done by employees of an employer subject to this classification.

This classification excludes establishments engaged in corrugating, laminating, oiling or coating paper which are to be reported separately in classification 2401-04 and establishments engaged in the manufacture of abrasive cloth or paper (emery cloth/sandpaper) which are to be reported separately in classification 3708.

2401-04 Paper coating, corrugating, laminating, oiling, or embossing

Applies to establishments engaged in manufacturing corrugated cardboard, or in coating, laminating, oiling, embossing paper or cardboard (chipboard) for others. To make *corrugated* cardboard, three (or more) rolls of kraft paper are simultaneously fed into a corrugating machine. Steam is sprayed onto the middle sheet as it winds around grooved rollers, forming grooves. Glue is applied to the tips of the grooves and the middle sheet is run between the other two sheets to form corrugated cardboard. The rest of the process involves heating, drying and curing, scoring and cutting the cardboard. *Coating* involves mixing coating materials, pouring the mixture into troughs of coating machines; the paper passes over rollers through the coating mixtures. *Oiling or waxing* processes are similar, but the oils or waxes are heated prior to being applied to the paper. After saturation, paper is dried, then finished by calendering (smoothed by being pressed through large rollers), slitting to desired widths, and rewinding or sheeting to size. *Laminated* paper is produced by feeding a paste or glue between layers of paper, pressing them together, drying and finishing by winding into rolls, or cutting, slitting or die cutting to size and shape. Paper is *embossed* by winding it on embossing rollers that perforate designs in it. Raw materials include, but are not limited to, kraft paper, chipboard, glues, waxes, resins and other coating liquids. Machinery for all these processes moves paper through glue baths, finishing applications, squeeze rollers, corrugating or embossing rollers, drying ovens, cutting devices, laminators, and/or stacking equipment. Other machinery includes, but is not limited to, forklifts, balers and shredders.

This classification excludes establishments engaged in the manufacture of paper, pulp or wood fiber which are to be reported separately in classification 2401-00; establishments engaged in the manufacture of corrugated and fiber board containers which are to be reported separately in classification 2401-03; and establishments engaged in the manufacture of abrasive cloth or paper (emery cloth/sandpaper) which are to be reported separately in classification 3708.

Special note: This classification differs from classification 2401-03 in that making corrugated cardboard or laminating, oiling, or coating cardboard products made by others is the main activity in classification 2401-04 while such supporting operations in classification 2401-03 are incidental to the manufacture of the product.

2401-08 Paper goods, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of heavy-grade, paper-based products, which are not covered by another classification (N.O.C.). Products range widely and include, but are not limited to, panels, paper-mache items, milk cartons, display boards, commercial air filters, and spiral tubes. Spiral tubes range in size from small cores for paper towels to large tubes used by the construction industry to form concrete. Materials include, but are not limited to, paper, chipboard, glue, inks and dyes, chemicals; materials such as lightweight wire, or small parts made of plastic, Styrofoam, or textiles could be used as auxiliary pieces of the finished product. Machinery includes, but is not limited to, sheeters, slitters, slotters, winders, rewinders, printing presses, cutting, drilling or punching machines, ovens, heated presses, vats and beaters, grinders, laminators, embossers, gluers, vacuum machines, heat-sealing machines, wire-bending equipment, packaging equipment, conveyors, shredders, and balers. Depending on the product being made, processes are similar to one or more of those described in the other paper products manufacturing classifications.

This classification excludes establishments engaged in the manufacture of paper, pulp or wood fiber which are to be reported separately in classification 2401-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-567, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-567, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-567, filed 5/31/91, effective 7/1/91; 89-24-051 (Order 89-22), § 296-17-567, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-567, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-567, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-567, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-567, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-17-567, filed 11/30/77, effective 1/1/78; Order 73-22, § 296-17-567, filed 11/9/73, effective 1/1/74.]

WAC 296-17-568 Classification 2903.

2903-00 Wood chip, hog fuel, bark, bark flour, fire log and lath: Manufacturing

Applies to establishments engaged in the production of products such as, but not limited to, wood chips, hog fuel, bark, bark flour, fire logs, kindling, excelsior, particleboard, and similar wood by-products.

Wood chips are small pieces of wood, generally uniform in size and larger and coarser than sawdust, commonly used to make pulp, particleboard, stuffing for products such as animal bedding, and as smoker/barbecue fuel;

Hog fuel is made by grinding waste wood in a hog machine, is larger and coarser than wood chips, and is used to fire boilers or furnaces, often at the mill or plant at which the fuel was processed;

Bark is the outermost covering of a tree which is chopped into pieces of varying sizes, and is commonly used for landscaping;

Bark flour is finely ground bark used as a filler or extender in adhesives;

Fire logs are made by forming sawdust into a log about 15 inches long and are used for fuel;

Lath is a narrow strip of wood commonly used to support shingle, slate or tile roofing, and as a fencing material;

Excelsior is the curled shreds of wood used as a packing and stuffing material, or as a raw material in making various board products;

Particleboard is a panel made from discrete particles of wood which are mixed with resins and formed into a solid board under heat and pressure.

The degree of manual labor required to make these products varies depending upon the size of the operation and sophistication of the equipment. Raw materials include, but are not limited to, logs, mill waste, bark, sawdust, or chips. Machinery includes, but is not limited to, rip saws, cut-off saws, loaders, debarkers, hog chippers, hammer mills, conveyors, sorting screens, and storage bunkers. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification. The operation of portable chipping or debarking mills is included in this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; veneer manufacturing which is to be reported separately in classification 2904; and sawmill operations which are to be reported separately in classification 1002.

2903-06 Wood furniture stock: Manufacturing

Applies to establishments engaged in the manufacture of wood furniture stock such as, but not limited to, tabletops, table or chair legs, chair backs or seats, panels for beds, turning squares (bolts of wood which are shaped on lathes into furniture legs) and furniture squares (standard sized - usually 2" x 2" -pieces of wood used in constructing frames of upholstered furniture). Stock may be mass produced or custom. Raw material includes dimensional lumber from hardwoods such as, but not limited to, ash or alder. If the lumber is not presurfaced, it is sanded and/or planed. It is cut to desired width and thickness with a rip saw; and cut to desired length with a cut-off saw. Pieces may be beveled with a table saw, bored with a horizontal boring machine, molded or shaped, and joints formed using a mortise, tenon or jointer. Finished stock is banded and/or palletized and usually shipped unfinished and unassembled to furniture manufacturing plants. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; manufacture of wood furniture and caskets which is to be reported separately in classification 2905; lumber remanufacturing which is to be reported separately in classification 2903-26; veneer manufacturing which is to be reported separately in classification 2904; and sawmill operations which are to be reported separately in classification 1002.

2903-08 Wood door, jamb, window, sash, stair, molding and miscellaneous millwork: Manufacturing, prehanging or assembly

Applies to establishments engaged in the manufacture, prehanging or assembly of wooden doors, door components, jambs, windows, sashes, stairs, mantels, moldings, turnings, and miscellaneous millwork such as, but not limited to, shutters, door and window grilles, skylights, pillars, wainscot, and similar architectural ornaments. Doors manufactured in this classification may be for residential or commercial use, such as, but not limited to, garage, closet, warehouse, interior and exterior; they may be odd-size or standard, panel, solid, louver, hollow core, sliding, bi-fold and overhead. Component parts for stairs include, but are not limited to, risers, tread, balusters, hand rails, and newel posts. Fireplace mantels include both the shelf and the complete ornamental facing surrounding the firebox. Moldings include, but are not limited to, picture moldings, chair rails, quarter round, coves, and architectural molding and base. Raw materials include, but are not limited to, cut stock lumber, plywood, veneer, particleboard, cardboard, plastic laminates, glue, hardware, glass, and metal. Cutting and fitting of glass and metal components for doors and windows is an integral phase of the manufacturing process and is included within the scope of this classification. Machinery includes, but is not limited to, various types of saws (table, panel, rip, cut-off, radial arm, trim, circular, band, jig, and miter), molders, shapers, routers, planers, finger jointers, mortises, tenons, lathes, presses, var-

ious types of sanders, drill presses, hand drills, boring machines, pneumatic nail, screw and staple guns, spray guns, chisels, air compressors, glue spreaders, drying ovens, overhead vacuum lifts, conveyor systems, fork lifts, and pallet jacks. Some door manufacturers have "door machines" which route impressions in jambs and blanks for hinge placement, and bores holes in the blank for knobs and locks; some have computerized overhead vacuum lights, electronic gluers, hydraulic lift pits, or electronically controlled saws. Prehanging doors involves boring holes in door blanks for knobs and locks, routing impressions into the blanks and jambs for hinge replacement, mounting hinges, trimming door and jamb replacements to exact size. Finishing the products with stain, paint, oil, or lacquer is included in this classification when done by employees of employers subject to this classification. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; the manufacture of wood furniture and caskets which is to be reported separately in classification 2905; the manufacture of wood cabinets, countertops, and fixtures which is to be reported separately in classification 2907; lumber remanufacturing which is to be reported separately in classification 2903-26; veneer manufacturing which is to be reported separately in classification 2904; the manufacture of metal doors, jambs, windows, and sashes which is to be reported separately in classification 3404; and sawmill operations which are to be reported separately in classification 1002.

Special note: Lumber yards and building materials centers subject to classification 2009 are to be assigned classification 2903-08 in addition to their basic classification if they prehang door blanks.

2903-10 Wood box, shook, pallet, bin: Manufacturing, assembly, or repair

Applies to establishments engaged in the manufacture, assembly, or repair of wood pallets, boxes, bins, shook, shipping crates, and storage containers. A shook is a set of unassembled sawn wood components for assembling a packing box or barrel. Shooks are usually sold to box assembly plants. Pallets may be constructed out of vertical and horizontal runners of dimensional lumber to form a slatted pallet or by attaching three evenly spaced rows of wooden blocks between two sheets of solid plywood to form a lid-block pallet. Usually, the manufacturer subject to this classification picks up pallets, boxes or shipping crates from the customer, brings them to the plant for repair, reconditioning, or rebuilding, then returns them to the customer. However, the *assembly or repair* of bins is often done at the customer's location, which is still to be reported in classification 2903-10 when performed by employees of the bin manufacturer. Raw materials include, but are not limited to, dimensional lumber, plywood, nails, staples, screws, glue, and paint. Machinery includes, but is not limited to, a variety of saws (table, rip, radial arms, cut-off, band or trim), planers, molders, drills, boring machines, notchers, nailing machines, pneumatic stapler, screw and nail guns, conveyors, roll cases, sorting tables, pallet jacks, and fork lifts. Incoming lumber is cut to specified lengths, widths, and thicknesses with saws, then planed, bored, tongued, and grooved. Pieces are nailed, stapled or glued together to form finished products. Cut ends of pallets, bins, and boxes may be painted for design or for color identification purposes. Customer's name may be imprinted on the product using stencils and paint or wood burning tools. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant (except bin assembly at a customer's location) which are to be reported separately in the classification applicable to the work being performed; pallet dealers which are to be reported separately in classification 1103; lumber remanufacturing which is to be reported separately in classification 2903-26; and sawmill operations which are to be reported separately in classification 1002.

Special note: Classification 1103 for pallet dealers does not include the repair or assembly of pallets. Any assembly or repair of pallets is to be reported in classification 2903-10.

2903-12 Wood products, N.O.C.: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of miscellaneous wood products which are not covered by another classification (N.O.C.), including, but not limited to, ladders, utility pole crossarms, beams, barricades, cable spools, slugs or ends for paper rolls, attic vents, prefabricated wall panels, gazebos, saunas, solariums, lattice panels, mall and park furnishings, playground equipment, docks and floats, parade floats, boat trailer bunks, cattle feeders, tree spreaders, tack strip, exhibit booths, weaving looms, and pottery wheels. Finishing of the product with stains or other lacquers is included in this classification when done by employees of employers subject to this classification. Raw materials include, but are not limited to, dimensional lumber, plywood, particleboard, lath, logs, glue, staples, screws, nails, stains, paints, oils, and lacquers. Operations require substantial amounts of machine work, as well as hand assembly. Machinery includes, but is not limited to, saws (table, panel, cut-off, band, jig, miter, or chain), sanders, planers, routers, shapers, molders, jointers, drill presses, boring machines, hydraulic presses, pneumatic nail, screw and staple guns. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; the manufacture of wood household and sporting goods which is to be reported separately in classification 2909; the manufacture of wood furniture and caskets which is to be reported separately in classification 2905; the manufacture of wood cabinets, countertops and fixtures which is to be reported separately in classification 2907; lumber remanufacturing which is to be reported separately in classification 2903-26; veneer manufacturing which is to be reported separately in classification 2904; and sawmill operations which are to be reported separately in classification 1002.

2903-13 Veneer products: Manufacturing

Applies to establishments engaged in the manufacture of veneer products by laminating rough veneer to plywood or particleboard and applying plastic or polyester overlays. Laminated veneer sheets are generally sold to other manufacturers and used in the construction of items such as, but not limited to, cabinets, countertops, furniture, wall board, flooring, and shelving. Veneer products generally require no prefinishing with paint, stain or lacquer. Raw materials include, but are not limited to, plywood, particleboard, polyester, paper, polyethylene, fiberglass, plastic laminates and glue. To make veneer products, sheets of rough veneer are individually fed through glue spreader machines which apply glue to both sides. Veneer sheets may be laminated to other veneer or to plywood or particleboard, cut to size with saws, then plastic or polyester overlays applied. Laminated sheets are fed through either hydraulic cold or hot presses to be bonded and cured. More sophisticated presses automatically feed the sheets through, and shear the laminated panels to standard 4' x 8' or 4' x 10' dimensions, or to specified lengths and widths for custom orders. Forklifts are used to move materials. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; the manufacture of household and sporting goods wooden ware which is to be reported separately in classification 2909; the manufacture of wood products not covered by another classification (N.O.C.) which is to be reported separately in classification 2903-12; the manufacture of wood furniture and caskets which is to be reported separately in classification 2905; the manufacture of wood cabinets, countertops and fixtures which is to be reported separately in classification 2907; the manufacture of rough veneer which is to be reported separately in classification 2904-00; lumber remanufacturing which is to be reported separately in classification 2903-26; and sawmill operations which are to be reported separately in classification 1002.

2903-20 Wood sign: Manufacturing

Applies to establishments engaged in the manufacture of interior or exterior signs made of wood or wood products. Raw materials include, but are not limited to, dimensional lumber, plywood, molding, acrylic, paint, stain, lacquer and hardware. When additional sizing is required, saws, such as table, panel, cut-off, or radial arm, are used to cut material to desired dimensions. Pieces may be further sized, shaped, and smoothed with routers, saws, planers, or sanders. Stain, paint, or other finishes may be applied as background colors, borders or designs, with pneumatic spray guns, airbrushes, or by hand. Lettering or designs can be painted directly on the sign, cut from separate stock and glued or screwed on, or carved, routed or sandblasted. Computer-cut vinyl lettering may also be applied. Sign painting and lettering is included in this classification when done by employees of the sign manufacturer. Hand drills or drill presses are used to mount wood lettering or designs, bore holes and attach hardware used in the subsequent installation of the sign. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes the installation or removal of signs outside of buildings which is to be reported separately in classification 0403; the installation or removal of signs inside of buildings which is to be reported separately in classification 0513; sign painting or lettering on the inside of buildings which is to be reported separately in classification 4109; establishments that paint on or apply lettering to sign "backings" that are manufactured by others which is to be reported separately in classification 4109; the manufacture of metal or plastic signs which is to be reported separately in the classification applicable to the manufacturing process; and sawmill operations which are to be reported separately in classification 1002.

Special note: The majority of sign manufacturers also install their signs. Installation and removal of signs is to be reported separately.

2903-21 Wood truss: Manufacturing

Applies to establishments engaged in the manufacture of structural roof trusses, and/or ceiling and floor joists from wood or wood products. These products usually do not require a high degree of finishing work. Raw materials include, but are not limited to, dimensional lumber (usually 2" x 4", 2" x 6", and 2" x 8", which is kiln dried, machine stressed, and presurfaced), plywood, metal gussets, and hardware. Dimensional lumber is cut with gang, table, resaw, or radial arm saws. Cut stock is placed in a hydraulic jig assembly which holds the unassembled components in the properly aligned configuration. Pneumatic nailers are used to embed the nail clips which connect each joint of the truss. A gantry, which is an overhead crane traveling along a bridge-like frame, is used to relocate the truss along the assembly line. The assembled truss is placed in a stationary or moveable press which attaches reinforcing triangular shaped metal plates called gussets at each joint or angle. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all installation activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; the manufacture of door jambs, windows, sashes, stairs, molding and miscellaneous millwork which is to be reported separately in classification 2903-08; lumber remanufacturing which is to be reported separately in classification 2903-26; and sawmill operations which are to be reported separately in classification 1002.

Special note: Truss manufacturers, whose primary customers are building contractors and building supply dealers, usually deliver their product. Delivery to the construction site often entails placing trusses onto the roof top, using boom lifts mounted on the delivery truck, which is included in this classification when performed by employees of employers subject to this classification.

2903-26 Lumber: Remanufacturing

Applies to establishments engaged in lumber remanufacturing, which is the process of converting cants, plywood, or lumber into a more specialized or higher grade product. Cants

are large slabs of wood, usually having one or more rounded edges, which have been cut from logs. The incoming stock is generally green, rough-cut, and may be owned by the customer or by the remanufacturer. Machinery includes, but is not limited to, a variety of saws, (chop, resaw, trim, rip, table, radial arm, and cut-off), planers, surfacers, sanders, molders, groovers, finger jointers, tenoners, gluers, kiln dryers, fork lifts, and trolley cars. Stock is kiln dried, re-sawed, planed, grooved, or otherwise treated, according to customer specification if the customer owns it, or to standard cuts if it is for resale. Remanufacturers sell lumber to construction contractors or manufacturers that use it in the construction of products such as, but not limited to, paneling, countertops, framing studs, siding, decking, fencing, railroad ties, or molding. Remanufacturers generally do not finish the material with stain, paint, or lacquer. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; the manufacture of roof trusses and ceiling and floor joints which is to be reported separately in classification 2903-21; veneer manufacturing which is to be reported separately in classification 2904; establishments that exclusively kiln dry and/or treat lumber with preservatives, fire retardants, or insecticides, and that do not perform any remanufacturing operations which are to be reported separately in classification 1003; and sawmill operations which are to be reported separately in classification 1002.

2903-27 Ridge cap and/or shim: Manufacturing

Applies to establishments engaged in the production of shims and ridge caps. Shims are thin wedges of wood used for filling spaces or leveling. Ridge caps are shingles which are used as a covering for roof peaks. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; veneer manufacturing which is to be reported separately in classification 2904; and sawmill operations which are to be reported separately in classification 1002.

Special note: **This classification must be assigned only by Classification Services after a field inspection of the business has been performed. If a classification must be assigned prior to the field inspection, assign classification 1005-02.**

2903-28 Wood boat: Manufacturing, repair, or refinish

Applies to establishments engaged in manufacturing, repairing, or refinishing wooden boats. Raw materials include, but are not limited to, dimensional lumber, plywood, glue, staples, screws, nails, stains, paints, oils, and lacquers. Machinery includes, but is not limited to, band saws, lathes, drill presses, jointers, planers and sanders. Other than pleasure craft, very few wooden boats have been manufactured over the last 50 years. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes the manufacture of fiberglass boats which is to be reported separately in classification 3511, and the manufacture of metal boats which is to be reported separately in the classification applicable to the materials used and work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-568, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-568, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-568, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-568, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-568, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-568, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-568, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-568, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-568, filed 11/30/81, effective 1/1/82; Order 76-36, § 296-17-568, filed 11/30/76; Order 75-38, § 296-17-568, filed 11/24/75, effective 1/1/76; Order 75-28, § 296-17-568, filed 8/29/75, effective 10/1/75; Order 73-22, § 296-17-568, filed 11/9/73, effective 1/1/74.]

WAC 296-17-569 Classification 2904.

2904-00 Veneer: Commercial production

Applies to establishments engaged in all types of commercial production of rough veneer. Veneer is a thin layer of material, usually made of wood or plastic, which is used to cover the surface of another material. In most instances, finished veneer will have a superior appearance or quality than the surface it covers. Rough veneer made of wood generally involves sawing logs, bolts (lengthwise strips), or blocks, softening them in vats of hot water or steam rooms to remove the bark and make the fiber pliable for cutting or turning. The pieces are further shaped by turning, slicing or sawing, cutting the single-ply veneer sheets to various sizes of length and thickness, then drying them in kilns. Rough veneer manufactured in this classification is generally sold to manufacturers of veneer products made by laminating rough veneer to plywood or particleboard. Machinery includes, but is not limited to, band saws, table saws, stationary knife machines, rotary lathes, conveyor systems, kilns, forklifts.

This classification excludes sawmill operations which are to be reported separately in classification 1002; the manufacture of plywood which is to be reported separately in classification 2904-01; the manufacture of veneer products which is to be reported separately in classification 2903; and the manufacture of other products made from wood or plastic which are to be reported separately in the classification applicable to the work being performed. The production of veneer by employees of employers engaged in the manufacture of other products is to be included in the classification covering the manufacture of those products.

2904-01 Plywood: Manufacturing

Applies to establishments engaged in the manufacture of plywood. Plywood is a structural material made of layers of wood (veneer) glued tightly together, usually with the grains of adjoining layers at right angles to each other. (In this application the word "ply" means one of the sheets of veneer.) The production of veneer is included in the scope of this classification when done by employees of employers engaged in the

manufacture of plywood. To form plywood, it may be necessary to join less-than-full-size sheets of veneer into full-size sheets. In the joining process, veneer jointers, taping machines, tapeless splicers, or other methods of joining veneer, such as stringing and stitching are used. Next, a glue spreader coats the cross banding and core veneers (front and back) with liquid glue. Once glued, the veneer is conveyed to a hot press that bonds the veneers into plywood. The panels are removed from the presses, placed in a storage pile (referred to as a "hot stack") to cool and cure, then trimmed, sanded, and stacked for conditioning. Plywood may be impregnated with chemicals to develop wood-plastic combinations that are harder and denser than ordinary plywood. After they are inspected and graded according to thickness and quality, plywood panels are moved by forklift to the warehouse portion of the plant where they are stacked in tiers which are separated by a piece of lumber to prevent sagging or distortion. Pieces are bundled with metal straps, either manually or with automatic strapping equipment.

This classification excludes sawmill operations which are to be reported separately in classification 1002; establishments that manufacture rough veneer as a product which are to be reported separately in classification 2904-00; and the manufacture of other products made from wood or plastic which are to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-569, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-569, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-569, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-569, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-569, filed 11/9/73, effective 1/1/74.]

WAC 296-17-56901 Classification 2905.

2905-00 Wood furniture and casket: Manufacturing, assembling, or repairing;
Furniture refinishing

Applies to establishments primarily engaged in manufacturing, assembling or repairing furniture or caskets made of wood. Products may be custom-made or stock, for residential or commercial use. This classification includes establishments that repair and refinish wood furniture that is new, used, antique, or furniture with factory defects or damages from shipping. Furniture includes, but is not limited to, sofas, love seats, chairs, tables, beds, dressers, chests, stools, hutches, pool tables, credenzas, desks, bookcases, pews, altars, pulpits, baptisteries, and benches. Materials include, but are not limited to, dimensional lumber, furniture stock, plywood, veneer, particleboard, plastic laminates, polyfoam, upholstery materials (fabric, stuffing, cardboard, metal springs), hardware, glue, paint, stain, oils or lacquer. Machinery includes, but is not limited to, various types of saws (table, panel, rip, cut-off, radial arm, trim, circular, band, jig and miter), molders, shapers, routers, jointers, mortises, tenons, lathes, planers, various types of sanders, drill presses, hand drills, boring machines, pneumatic nail, screw and staple guns, spray guns, air compressors, glue spreaders, dust collectors, drying ovens, sewing machines, steam irons, fork lifts, and pallet jacks. Operations range from processing rough or surfaced lumber, plywood or fiberboard, to the assembly of frame parts into finished products. For classification purposes, repair includes fabricating replacement parts, reinforcing structural weak points, disassembling, regluing and reassembling, recaning chairs, and similar activities, and refinishing includes stripping, sanding, filling, priming, and finishing with stain, oil, paint, or lacquer. Manufacturers in this classification may upholster their furniture, sell it unfinished, or finish it with various lacquers by spraying, dipping, or applying by hand. To make caskets, wood is cut to size, planed, and sanded. Sections are joined to form the shell, finished with lacquer, oil, or stain, and hardware added. Interior upholstery is usually stapled in place; exterior upholstery is usually glued on. This classification also contemplates the assembly of caskets from purchased components. Manufacturers of wood caskets often purchase ready-made fiberglass or metal casket shells, refinish them if necessary, mount the hardware, and upholster them. This is considered incidental to the main operation and is included in this classification. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification. Physically separated upholstery departments of establishments engaged in furniture or casket manufacturing, assembly, or finishing may be reported separately in classification 3808 provided that the conditions of the general reporting rules covering the division of employee hours have been met.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; establishments engaged in stripping and refinishing furniture, but do not otherwise repair it, which are to be reported separately in classification 3603; establishments engaged in the manufacture of wood cabinets, countertops or fixtures which are to be reported separately in classification 2907; and establishments engaged in the manufacture of furniture or caskets from metal or plastic which are to be reported separately in the classification applicable to the work being performed.

Special note: Establishments primarily engaged in the manufacture of furniture or caskets may make other wood products such as cabinets, countertops and fixtures as an incidental activity. The incidental manufacture of these products can be included within the scope of this classification. Furniture is generally moveable and unsecured. Fixtures are usually secured, stationary, or permanently built-in objects. Even though some fixtures may not be secured to a wall or floor, they are not intended to be relocated, unlike furniture which is frequently and more easily arranged.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-56901, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-56901, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-56901, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-56901, filed 5/29/87, effective 7/1/87.]

WAC 296-17-570 Classification 2906.

2906-01 Pattern or model - metal, plastic or wood: Manufacturing

Applies to establishments engaged in making metal, plastic, or wood patterns or models. Patterns or models produced may include industrial, aircraft, foundry, architectural

scale and mechanical models. Use of this classification is limited to the fabrication of individual or prototype pieces. Work contemplated is limited to fabricating the pattern or model using woodworking and metal cutting tools, sanding and filling voids with fillers (wood or plastic); and extensive hand finishing of all these mediums when performed by employees of an employer subject to this classification.

This classification excludes pattern or model making by other manufacturers unless specifically allowed for in the manufacturing classification, and establishments engaged in the manufacture of plastic or wood model kits (assembly of a scale model of a car, boat, or plane) which is to be reported separately in the applicable classification.

2906-14 Wood piano or musical instrument: Manufacturing

Applies to establishments engaged in the manufacture of wood musical instruments including, but not limited to, pianos, organs, violins, harps, and guitars. Work contemplated by this classification includes various phases of woodworking techniques required to manufacture cases, sounding boards, pedals and action boards, metal working techniques required to produce components such as pipes, frames, switches, magnets, wind reservoirs and blower systems, and incidental tanning of skins for drums and banjos when done by employees of an employer having operations subject to this classification. This classification applies whether the company is producing all component parts or assembling a wooden musical instrument from purchased parts. This classification includes the reconditioning and subsequent sale of reconditioned pianos, organs, and wooden musical instruments.

This classification excludes the manufacture of metal musical instruments which is to be reported separately in classification 3404; tuning or repair of pianos which is to be reported separately in classification 4107; and the sale of new piano and organs or wooden musical instruments which is to be reported separately in classification 6306 or 6406 as applicable.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-570, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-570, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-570, filed 11/9/73, effective 1/1/74.]

WAC 296-17-57001 Classification 2907.

2907-00 Wood cabinet, countertop, and fixture: Manufacturing, modifying or assembly

Applies to establishments engaged in the manufacture, modification, or assembly of wood cabinets, countertops, and fixtures. Cabinetry work contemplated by this classification includes, but is not limited to, manufacturing custom or modular cabinets, assembling prefabricated modular cabinet components, refacing existing cabinets and replacing hardware, and modifying the dimension or design of modular cabinets. Manufacturing countertops includes fabricating the core or sub top in addition to laying the plastic laminate, polyester overlay or tile when performed in the shop by employees of employers subject to this classification. Finishing may be subcontracted out to a prefinish contractor or performed by the general or specialty construction contractor at the job site; however, finish work is included in classification 2907-00 when performed by employees of an employer subject to this classification. Fixture manufacturing includes built-in store, office, restaurant, bank and residential fixtures such as, but not limited to, showcases, display cases, end aisles, display pedestals, shelving, partitions, racks, closet organizers, bookshelves, work stations, credenzas, podiums, wall units, china hutches, entertainment centers, cashier cubicles, check-out counters, and curio cabinets. The wiring of fixtures for electrical fittings, and the cutting and fitting of plastic laminates, glass, mirrors, or metal trim, when performed in the shop, is included as an integral function of the manufacturing process encompassed within this classification. Raw materials include, but are not limited to, dimensional lumber, plywood, veneer, particleboard, plastic laminates, polyester overlays, sheet rock, slot wall dowels, hardware, mirrors, metal trim, electrical hardware, carpet, upholstery fabric, stain, paint, lacquer or glue. Machinery includes, but is not limited to, table, panel, radial arm, cut-off, chop, rip, band, and miter saws, wide belt sanders, edge sanders, hand finish jointers, mortises, tenoners, drill presses, hand drills, boring machines, edge banders, dowel machines, glue spreaders, face framing machines, pneumatic nail, screw and staple guns, air compressors, spray guns, forklifts, pallet jackets, and dust collectors. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification. Lumber yards, building material dealers, or general construction contractors that maintain a separate woodworking shop for manufacturing, assembling cabinets, and fixtures are subject to this classification for the woodworking operations, in addition to any other basic classification applicable to their business.

This classification excludes the installation of cabinets, countertops, and fixtures which is to be reported separately in classification 0513; the manufacture of wood furniture and caskets which is to be reported separately in classification 2905; the manufacture of metal cabinets which is to be reported separately in classification 3404; lumber remanufacturing which is to be reported separately in classification 2903; veneer manufacturing which is to be reported separately in classification 2904; and sawmill operations which are to be reported separately in classification 1002.

Special note: Establishments primarily engaged in the manufacture of cabinets, countertops and fixtures, may make other wood products such as doors, windows, moldings, and/or furniture as an incidental activity to the main business. The manufacture of these incidental products is included within the scope of classification 2907-00. Furniture is generally moveable and unsecured. Fixtures are usually secured, stationary, permanently built-in objects. Even though some fixtures may be secured to a wall or floor, they are not intended to be relocated, unlike furniture which is frequently and more easily arranged.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-57001, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-57001, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-57001, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-57001, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-57001, filed 5/29/87, effective 7/1/87.]

WAC 296-17-57002 Classification 2908.

2908-00 Factory built housing: Manufacturing or assembly

Applies to establishments engaged in the assembly line production of factory built (manufactured) housing such as wood prefab and modular homes, log home kits, mobile homes and prefab cedar homes when manufactured at a shop or adjacent yard. Sections vary in size up to 80 feet long and 28 or more feet wide. Manufactured homes are built on an assembly line with materials such as plywood, rolls of aluminum, steel I beams, insulation, electric wire, particleboard, lumber, pipes, plumbing fixtures, electrical fixtures, appliances, carpeting, paint and hardware. Assembly may be single line or on a side by side line. After the chassis is built, it is placed on a conveyor where workers lay joists and heating and plumbing lines. Floors are then installed, interior walls are raised and cabinets are installed. Preassembled exterior walls are fastened, the roof is placed, covered, and tie down straps are attached. These homes may be sided with aluminum, vinyl, hardwood fiberboard or natural wood. While the chassis and some other steel parts are welded, the majority of the work is performed with stamping and forming equipment, hand and air tools, joiners, jig clamps, planers, hoists, forklifts and rail conveyors. Other parts may be nailed, riveted, stapled or glued. Furniture and blinds or curtains may then be installed and specialty items such as fireplaces may be added. Units are inspected, then moved to the yard until sold or delivered. Individual work stations may include a mill room, cabinet mill room, sheet metal department or paint and finish departments. Some plants may also have sewing departments where they make curtains, blinds and drapes. This classification includes transporting of the factory built home to the customer's site or a dealer's sales lot when performed by employees of an employer subject to this classification, but excludes set up which is to be reported separately in classification 0517.

This classification excludes establishments engaged in the manufacture of campers and travel trailers which are to be reported separately in classification 2908-02; establishments engaged exclusively in the manufacture of truck canopies which are to be reported separately in classification 2908-03; establishments engaged in the manufacture of fiberglass canopies which are to be reported separately in classification 3511; and delivery and set up performed by an independent contractor which is to be reported separately in classification 0517.

2908-02 Campers and travel trailers: Manufacturing

Applies to establishments engaged in the manufacture of factory built campers or travel trailers which are generally not more than 35 feet long and 8 feet wide. This process includes cutting steel I-beams, placing them on a jig and welding the pieces together. Hitches, running gear, and side frames are installed. Subflooring is assembled on a jig and fastened with lag bolts to the frame. Shears, stamping equipment, drill presses and jig clamps are used to perform the work as the pieces are moved by conveyor. Interior and exterior metal panels and trim are spray painted in spray booths or dipped in tanks, using enamel and then hardened by using drying ovens or heat lamps. All electrical wiring, flooring, carpets, heating units, and plumbing fixtures are installed with the use of electrical hand tools, pneumatic wrenches, staplers, and air compressors. Partition walls are then nailed in place with nail guns. Side walls are framed up on a jig and placed on the trailer. Afterwards, the ceiling is nailed in place and the insulation and cabinets are put in place. Sheet metal sides are stapled on and the top is installed. All systems are checked and the trailer or camper is delivered to the distributor's lot. The process of manufacturing a camper is similar except there are no frame rails, axles or hitch involved as a camper has no chassis. Campers are mounted on pickup trucks; travel trailers are fitted with a hitch for towing behind a motor vehicle.

This classification excludes establishments engaged in the manufacture of factory built housing which are to be reported separately in classification 2908-00; establishments engaged in the manufacture of truck canopies which are to be reported separately in classification 2908-03; establishments engaged in fiberglass canopy manufacturing which are to be reported separately in classification 3511; and camper and travel trailer rental/sales agencies which are to be reported separately in classification 3411.

2908-03 Wood or metal truck canopy: Manufacturing

Applies to establishments engaged in the manufacture of wood or metal truck canopies. After the framework is assembled, insulation is cut to size and inserted, electrical wiring is strung, exterior aluminum sheeting or "skin" is cut to size and attached, interior paneling and decorative trim is fitted, doors and windows are installed and electrical clearance lights are attached. Machinery includes, but is not limited to, saws, electrical hand tools, metal cutting and welding equipment, shears, stamping equipment, drill presses, jig clamps, spray booths, pneumatic wrenches, staple and nail guns, air compressors and miscellaneous hand tools. Direct sales to retail consumers or to wholesale dealers by a canopy manufacturer are included in this classification.

This classification excludes dealers who sell and/or install canopies who are reported separately in classification 1106; establishments engaged in the manufacture of campers and travel trailers which are to be reported separately in classification 2908-02; establishments engaged in the manufacture of factory built housing which are to be reported in classification 2908-00; and establishments engaged in the manufacture of fiberglass canopies which are to be reported separately in classification 3511.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-57002, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-57002, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-57002, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-57002, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-57002, filed 11/29/82, effective 1/1/83.]

WAC 296-17-57003 Classification 2909.

2909-00 Woodenware - household and sporting goods N.O.C.: Manufacturing or assembly

Applies to establishments engaged in light woodworking, not covered by another classification (N.O.C.), for the manufacture of woodenware household goods, sporting goods and a wide range of decorative woodenware items that require a minimal amount of cutting, shaping, drilling, sand-

ing, assembling and finishing. Items produced in this classification include, but are not limited to, towel bars, tissue holders, magazine racks, spice racks, knife holders, recipe boxes, cutting boards, rolling pins, salad forks, bowls, picture and mirror frames, candle holders, speaker shells, bases for turntables, trophy and plaque bases, house numbers, window blinds and shades, drapery woodenware (rods, brackets, supports, rings), broom and brush handles, bobbins and spools, crutches, hat blocks, pegs, coat hangers, toothpicks, gift boxes, tobacco pipes, toys, games, basketball backboards, baseball bats, boomerangs, pool or shuffleboard cues, hockey sticks, oars, paddles, archery bows and arrow shafts. Establishments in this classification generally purchase ready-made components which they assemble with pneumatic or hand tools such as, but not limited to, nail or glue guns, spray or paint guns, staple guns, screw guns, drills, shaping tools, and brushes. Products may be left natural, or finished by applying paint, stain, lacquer or varnish, or hand dipping or rubbing. A limited assortment of basic wood shop machinery such as, but not limited to, table saws, circular saws, band saws, miter saws, jig saws, routers, shapers, belt sanders, edge sanders, drill presses, boring machines, and finger jointer may be used for the occasionally cutting of a piece of wood. Other materials include, but are not limited to, molding stock, dowels, plywood, glue, staples, screws, and small nails. In most cases, products are small and the manufacturers do not provide installation. This is a shop or plant only classification. It does, however, include work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant which are to be reported separately in the classification applicable to the work being performed; and the manufacture or assembly of wood products such as, but not limited to, molding stock, outdoor playground equipment, marine floats and docks, gazebos, solariums, saunas, ladders, or cable spools from dimension lumber which is to be reported separately in the applicable classifications.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-57003, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-57003, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-57003, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-57003, filed 5/29/87, effective 7/1/87.]

WAC 296-17-571 Classification 3101.

3101-05 Ready mix concrete dealers

Applies to establishments engaged in the mixing and delivery of ready mix concrete for all types of residential and commercial projects such as, but not limited to, foundations, walls, slabs, roadways, driveways, walkways, dams, bridges and swimming pools. Usually, these establishments operate a plant location with a supply of sand, gravel, pebbles, broken stones or slag, and various ingredients to produce bonding adhesives such as cement. The concrete is premixed at the plant location and loaded into a delivery truck, or the raw unmixed ingredients such as cement, sand, gravel, pebbles, broken stones and water are loaded into a concrete truck and mixed in a revolving or rotating drum in transit to the project site. The concrete is discharged from the drum with use of a metal shoot or is transferred into the bed of a concrete pump truck for pumping. This classification includes ready mix dealers who operate concrete ready mix trucks and/or concrete pump trucks as part of the delivery service. This classification also includes the related sale of tools, equipment, and building materials such as bricks or concrete blocks, and pit and crusher operations provided all sand and gravel produced is used by the dealer to manufacture concrete mix.

This classification excludes establishments engaged in the commercial production and/or digging of sand, gravel or stone not in connection with a ready mix dealer which is to be reported separately in classification 0112, and concrete pump truck services not in connection with a ready mix dealer which is to be reported separately in classification 3506.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-571, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-571, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-571, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-571, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-571, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-571, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-571, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-571, filed 11/9/73, effective 1/1/74.]

WAC 296-17-572 Classification 3102.

3102-04 Rock wool insulation: Manufacturing

Applies to establishments engaged in the manufacture of mineral wool insulation from siliceous materials such as, but not limited to, rock, slag, and glass, or combinations thereof. In a special furnace, hot air or steam is blown through molten rock or slag, shredding the material into a mass of fine intertwined fibers to form the wool. To produce fiberglass insulation material, molten glass is drawn at high speeds through orifices, then subjected to jets of high pressure steam which break the glass filaments into fine fibers. The final product, regardless of raw material, may be shipped in granules which are bagged, or formed into flat sheets, cut to size, enclosed in paper or foil, and packaged. Incidental rock, slag, and glass crushing operations are contemplated by this classification.

This classification excludes the digging or quarrying of raw materials which is to be reported separately in the classification appropriate to the work being performed, and the manufacture of asbestos products which is to be reported separately in classification 3104.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-572, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-572, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-572, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-572, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-572, filed 11/9/73, effective 1/1/74.]

WAC 296-17-573 Classification 3103.

3103-01 Cement or lime: Manufacturing

Applies to establishments engaged in the manufacture of cement or lime. Cement is a mixture of various granulated raw materials which may include limestone, shale, clay, slate, alumina, silica sand, iron ore and gypsum. The manufacturing process involves crushing and grinding the raw materials into a powder state. Materials are then blended with water to create a slurry, then kiln burned at high temperatures which chemically changes the mixture. This mixture is then combined with gypsum and ground into the final product. Cement

may be sold as is or mixed with water and coarse aggregate to make concrete. Lime production involves a similar process using crushing and blending machinery and large kilns. Cement and lime manufacturers may own a limestone quarry as it is the major component of both products.

This classification excludes the quarrying of raw material which is to be reported separately in classification 1704; ready mix concrete dealers who are to be reported separately in classification 3101; and the manufacturing of concrete products which is to be reported separately in classification 3105.

3103-02 Lightweight aggregate building or insulation material: Manufacturing

Applies to establishments engaged in the manufacture of lightweight aggregate building material or insulation material. Types of products covered by this classification include, but are not be limited to, vermiculite, perlite, pozzolan, magnesite, expanded shale aggregate and fiberglass. The manufacturing process contemplates crushing of raw materials and blending and heating of materials in large furnaces.

This classification excludes the quarrying of raw material which is to be reported separately in classification 1704, and the manufacture of fiberglass products which is to be reported separately in the appropriate manufacturing classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-573, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-573, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-573, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-573, filed 11/9/73, effective 1/1/74.]

WAC 296-17-574 Classification 3104.

3104-08 Plaster, whiting, talc, emery powder: Manufacturing

Applies to establishments engaged in the manufacture of plaster, whiting, talc or emery powder. Plaster is a mixture of lime, sand, water, and may include hair or other fibers, that hardens to a smooth solid and is used for coating walls and ceilings. Plaster can also be manufactured in dry form and sold in bags. Whiting is a pure white grade of chalk that has been ground and washed for use in paints, ink, and as an extender in pigments, putty or whitewash. Talc is a fine-grained white, greenish, or gray mineral with a soft soapy texture, which is used in the manufacture of talcum and face powder, as a paper coating, and as a filler for paint and plastics. Emery is a fine-grained mineral used for grinding and polishing. This classification is for the production of the powders only. Machinery includes, but is not limited to, crushing, mixing, grinding, milling and washing and cooking machinery, conveyors and forklifts.

This classification excludes establishments engaged in the manufacture of plaster statuary or ornaments which are to be reported separately in classification 3509; establishments engaged in the manufacture of plasterboard or plaster block which are to be reported separately in classification 3104-55; interior and exterior plastering and stucco work which is to be reported separately in classification 0303; and quarrying operations which are to be reported separately in classification 1704.

3104-52 Asbestos products or mica goods: Manufacturing

Applies to establishments engaged in the manufacture of asbestos products and mica goods. Asbestos products include, but are not limited to, fireproofing, electrical insulation, building materials, brake linings, clutch facings, valve packings, dryer felt, and chemical filters. Asbestos is a fibrous mineral form combined with impure magnesium silicate. Flake asbestos can be mixed, spun and woven into cloth; or the flakes can be used as an ingredient in the processing or treatment of paper. To make molded asbestos products, asbestos is mixed with other ingredients, molded, baked, cut to size, and ground. Mica is also a mineral form; it is split to desired thickness using hand knives or knives mounted on tables. The split mica is sent to punch presses which stamp out the various products usually used by the electrical trades. Mica that is too small to be processed on punch presses may be placed in burling machines, mixed with liquids, then pressed into sheets. Removal of imperfections is usually done by hand; the sheets are dried, baked in ovens and run through sanders prior to crating and shipping.

This classification excludes establishments engaged in the manufacture of plasterboard or plaster block which are to be reported separately in classification 3104-55; contractors engaged in the installation or removal of asbestos or mica products at the customer's site which are to be reported separately in the classification applicable to the phase of construction being performed; and quarrying operations which are to be reported separately in classification 1704.

3104-53 Soapstone or soapstone products: Manufacturing; marble cutting and polishing; slate milling; stone cutting or polishing, N.O.C.

Applies to establishments engaged in the manufacture of soapstone products, and the cutting, milling, and polishing of marble, slate, or stone such as grindstone, limestone, millstone and lithographic stone (usually sheet zinc), not covered by another classification (N.O.C.). Soapstone (also called steatite) is a massive white-to-green talc found in extensive mine beds and is used in products such as, but not limited to, insulation, paints, ceramics, decorative accessories, and ornamental objects. The manufacturing process requires turning, shaping, carving and polishing of the soapstone with a variety of milling equipment. Finished products of marble, slate or stone include, but are not limited to, decorative accessories, tops for furniture, countertops, floor tiles and other building materials. Machinery and materials include, but are not limited to, saws, milling machines, grinders and abrasives.

This classification excludes installation of tile, marble or slate building materials which is to be reported separately in the classification applicable to the phase of construction being performed and quarry operations which are to be reported separately in classification 1704.

3104-55 Plasterboard or plaster block: Manufacturing

Applies to establishments engaged in the manufacture of plasterboard (wallboard) or plaster block which are used as building materials. Raw materials include, but are not limited to, plaster, fiberboard, and rolls of paper. Plasterboard is made by bonding plaster to a thin rigid board or to layers of fiberboard or paper to form a flat board or a block. Product is

dried in ovens, cut to size with slitters or other cutting machinery, and packed for shipment. This classification includes the mixing of the plaster when done by employees of employers subject to this classification.

This classification excludes establishments operating as plaster mills which are to be reported separately in classification 3104-08; interior and exterior plastering and stucco work which is to be reported separately in classification 0303; and quarrying operations which are to be reported separately in classification 1704.

3104-57 Coating of building materials, N.O.C.

Applies to establishments engaged in the coating of building materials, not covered by another classification (N.O.C.), with preservatives to keep them from decaying when placed into the ground. These materials include, but are not limited to, dimensional lumber, deck materials, fence posts, landscaping beams, and lattice work. The coating process may include immersing the lumber in vats of preservative, or cutting or drilling small holes into the lumber and applying preservatives that soak in. Machinery and materials include, but are not limited to, immersion vats, drills, brushes, or machines to drill holes and apply preservatives.

This classification excludes installation of these products which is to be reported separately in the classification applicable to the work being performed.

3104-58 Monument dealers

Applies to establishments engaged in selling monuments, statues, cornerstones, and grave markers to others. This classification includes the finish cutting, grinding, polishing, engraving, and sandblasting of the stone when done by employees of employers subject to this classification. Wholesale monument dealers generally receive split, rough cut stone from the mine or quarry. Materials such as granite and marble are cut to block size, and precast bronze markers may be attached to the stone. Some blocks are sold without further processing while others are finished with stone polishers and abrasives, then cut into monuments prior to shipment to retail monument dealers. Retail monument dealers may provide engraving, artwork, lettering, and dates, according to customer specifications, that is usually done with a sandblasting technique. This classification includes installation of monuments when performed by employees of the monument dealer.

This classification excludes installation of monuments by employees of cemeteries which is to be reported separately in classification 6202; contractors engaged in the installation of monuments which are to be reported separately in the classification applicable to the work being performed; and establishments engaged in providing specialized services, such as, but not limited to, sandblasting which are to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-574, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-574, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-574, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-574, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-574, filed 11/30/76; Order 73-22, § 296-17-574, filed 11/9/73, effective 1/1/74.]

WAC 296-17-575 Classification 3105.

3105-06 Concrete blocks, bricks, poles, piles, tiles and beams manufacturing

Applies to establishments engaged in the manufacture of concrete blocks, bricks, poles, tiles, and beams. Sand, gravel, cement, cinders, aggregates, mesh wire, rods, and, in some cases, plastics are received from others. Raw materials are mixed with water and fed into molds or forming machines. Heavy mesh wire or rods may be inserted into the molds for strength. The formed products are usually steam dried and placed in the yard for curing prior to shipping. This classification does not apply to the manufacture of these products when done by construction contractors at a construction site for use in the construction project.

This classification excludes the production of raw materials which is to be reported separately in the applicable mining, quarrying, or excavation classification; the installation or erection of products manufactured under this classification which is to be reported separately in the classification applicable to the work being performed; the manufacture of concrete sewer and irrigation pipes, septic tanks and concrete products not classified elsewhere which is to be reported separately in classification 3105-07; the manufacture of statuary and ornamental items from plaster or concrete which is to be reported separately in classification 3509; and the manufacture of brick or clay products which is to be reported separately in classification 3501.

Special note: This classification differs from classification 3509 "statuary or ornament manufacturing" in that products manufactured in classification 3105 are rough, do not require perfect finishes, and are generally for construction use; products manufactured in classification 3509 are for decorative purposes, are usually lighter weight, and have smoother or more perfect finishes than the concrete products manufactured in classification 3105.

3105-07 Concrete sewer and irrigation pipes, concrete septic tanks and concrete products, N.O.C. manufacturing

Applies to establishments engaged in the manufacture of concrete sewer and irrigation pipes, septic tanks and other concrete products not covered by another classification (N.O.C.), such as, but not limited to, panels, tubs, catch basin covers, chimney caps, columns, incinerators, manhole covers, pier footings, monuments, coffins, caskets, and burial vaults. Sand, gravel, cement, cinders, aggregates, mesh wire, rods, and, in some cases, plastics are received from others. Raw materials are mixed with water and fed into molds or forming machines. Heavy mesh wire or rods may be inserted into the molds for strength. The formed products are usually steam dried and placed in the yard for curing prior to shipping. The manufacture of concrete panels generally involves the cutting and welding of metal to form a frame to which concrete fiberboard is attached. Additional steps may involve the application of an adhesive to the frame and the attachment of decorative material such as crushed rock, gravel, ceramic tile or brick. The fabrication of the metal framing is included within the scope of this classification when performed by employees of an employer engaged in manufacturing concrete panels. This classification does not

apply to the manufacture of these products when done by construction contractors at a construction site for use in the construction project.

This classification excludes the production of raw materials which is to be reported separately in the applicable mining, quarrying, or excavation classification; the installation or erection of products manufactured under this classification which is to be reported separately in the applicable classification; the manufacture of concrete blocks, bricks, poles, piles, tiles and beams which is to be reported separately in classification 3105-06; the manufacture of statuary and ornamental items from plaster or concrete which is to be reported separately in classification 3509; and the manufacture of brick or clay products which is to be reported separately in classification 3501.

Special note: This classification differs from classification 3509 "statuary and ornament manufacturing" in that products manufactured in classification 3105 are rough, do not require perfect finishes, and are generally for construction use; products manufactured in classification 3509 are for decorative purposes, are usually lighter weight, and have smoother or more perfect finishes than the concrete products manufactured in classification 3105.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-575, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-575, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-575, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-575, filed 11/9/73, effective 1/1/74.]

WAC 296-17-57602 Classification 3303.

3303-07 Fish dealers - retail

Applies to establishments engaged in the retail sale of fresh fish and shellfish over the counter. Refrigerated show cases display the fresh fish available for sale by the pound. Retail fish dealers typically purchase a supply of fish and shellfish, such as finfish, bottomfish, shrimp, crabs, oysters and clams, from wholesale seafood processing, packing or repackaging dealers, and clean, cut, trim, portion, shuck, package, and weigh the products for consumer use. This classification includes the packaging of whole herring, minnow and anchovy which are used primarily as bait fish. The packaging operation involves placing whole fresh fish side by side on a tray which is then sealed in clear plastic, weighed and placed in cold storage until delivery. Bait may be sold retail or wholesale. The incidental sale of items such as seasonings, spices, snack foods, and condiments is also included in this classification.

This classification excludes establishments engaged in fish processing, packing and repackaging operations on a wholesale or combined wholesale/retail basis which are to be reported separately in classification 3304; establishments engaged in the raising, harvesting and subsequent processing and packing of shellfish which are to be reported separately in the appropriate classifications; and establishments engaged in the cold storage or locker operations of products owned by others which are to be reported separately in classifications 4401 or 4404 as applicable.

3303-08 Meat and poultry dealers - retail

Applies to establishments engaged in the retail sale of fresh, frozen or cured meat and poultry over the counter. Refrigerated show cases display fresh meat and poultry for sale by the pound. Retail meat and poultry dealers typically purchase their supply of meat or poultry from wholesale dealers, and cut, trim, portion, package, weigh and label the products for consumer use. The incidental sale of items such as seasonings, spices, condiments, milk, and bread is also included in this classification. The retail meat and poultry market may be located in a single building, a grocery store, or other multipurpose building, but independently owned and operated by the meat and poultry dealer.

This classification excludes custom meat cutting operations, including farm kill, which are to be reported separately in classification 4302; cold storage or locker operations which are to be reported separately in classifications 4401 or 4404 as applicable when conducted as a separate and distinct business; and wholesale or combined wholesale/retail meat, fish and poultry dealers who are to be reported separately in classification 3304.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-57602, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-57602, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-57602, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-57602, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-57602, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-57602, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-57602, filed 11/27/78, effective 1/1/79.]

WAC 296-17-57603 Classification 3304.

3304-00 Fish processors, packers and repackagers - wholesale or combined wholesale/retail

Applies to establishments engaged in processing, packaging, and repackaging fish such as salmon, cod, whitefish, halibut, tuna, and/or shellfish when conducted by a wholesale or combined wholesale/retail operation. Typically, fish will arrive at a port via a commercial fishing vessel. Before the load of fish is accepted the wholesaler will inspect the commercial fishing vessel's records to ensure that the fish were caught, handled and stored in accordance with all applicable laws. The fish is then unloaded, identified, inspected for quality, weighed and stored in a refrigerated area or a freezer to await further disposition. Fish are processed, packed and repackaged as requested by the customers. Processing may include, but is not limited to, cutting, filleting, cooking, and/or canning. The fish may be sold to fish and meat markets, supermarkets, grocery stores, restaurants, or other wholesale dealers. This classification includes fishing activities that are not covered by another classification (N.O.C.) and the harvesting, planting or packaging of aquatic plants obtained from natural areas where the husbandry of the resource is not an integral part of the operation.

This classification excludes establishments engaged in the cold storage or locker operations of products owned by others which are to be reported separately in classifications 4401 or 4404 as applicable; establishments engaged in the raising, harvesting and subsequent processing and packing of shellfish which are to be reported separately in the appropriate classifications; and establishments engaged exclusively in retail fish activities, or the packaging of whole minnow, herring, or anchovy (not processed), which are to be reported separately in classification 3303.

3304-01 Meat and/or poultry dealers - wholesale or combined wholesale/retail

Applies to establishments engaged in the wholesale or combined wholesale/retail distribution of fresh, frozen, cured, or smoked meat or poultry. Wholesale dealers generally purchase meat (whole, half, or quarter carcasses) from slaughterhouses, and poultry from poultry processing plants. The meat or poultry is cut into steaks, chops, roasts, fillets or poultry parts, for sale to commercial or institutional customers such as restaurants, hotels, grocery stores, meat and poultry markets, hospitals, and prisons. Wholesale dealers typically do not have display cases for the meat or poultry and receive orders by telephone or by mail. This classification includes the processing and butchering of poultry.

This classification excludes meat products manufacturing, canning or dehydrating, and packing house or slaughterhouse operations, which are to be reported separately in classification 4301; custom meat cutting operations, including farm kill, which are to be reported separately in classification 4302; cold storage or locker operations which are to be reported separately in classifications 4401 or 4404 as applicable, when conducted as a separate and distinct business; establishments engaged in processing, packaging, and repackaging fish which are to be reported separately in classification 3304-00; and retail meat, fish and poultry dealers who are to be reported separately in classification 3303.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-57603, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-57603, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-57603, filed 12/1/89, effective 1/1/90.]

WAC 296-17-578 Classification 3309.

3309-02 Golf cart sales/rental agencies

Applies to establishments engaged in the sale and/or rental of new, used golf carts and go carts, and related items such as, but not limited to, golf cart trailers, canopies, protective outerwear, helmets, and replacements parts for the above products. The sale of boats and canoes can be included in this classification if they are incidental to the sale of golf carts and go carts. This classification includes outside lots, and full product line parts and service departments. Regional service representatives who provide factory training to local dealer shop mechanics are included in this classification.

This classification excludes establishments primarily engaged in the sale of boats, boat trailers and motors, which are to be reported separately in classification 3414, and the repair of lawn and garden equipment and small engines which is to be reported separately in classification 3402.

3309-03 Motorcycle, moped, motor scooter, snowmobile, jet ski, all-terrain vehicles sales/rental agencies

Applies to establishments engaged in the sale of new and used motorcycles, mopeds, motor scooters, snowmobiles, jet skis, three wheel and four wheel all-terrain vehicles. These establishments may also sell related items such as, but not limited to, portable generators, lawn and garden equipment, chain saws, water pumps, snow blowers, small gasoline engines, boat motors, protective outerwear, helmets, and replacement parts for the above products. The sale of boats and canoes can be included in this classification if they are incidental to the sale of motorcycles, mopeds, or other primary merchandise. This classification includes outside lots, and full product line parts and service departments. Also included are motorcycle service and repair shops, motorcycle dismantlers (wrecking yards), regional service representatives who provide factory training to local dealer shop mechanics, and establishments engaged in the sale/rental *and service (repair)* of motorized mobility aids, such as motorized wheelchairs and 3-wheel scooters.

This classification excludes establishments primarily engaged in the sale of boats, boat trailers and motors, which are to be reported separately in classification 3414; establishments primarily engaged in the sale of lawn and garden equipment which is reported separately in classification 6309; and the repair of lawn and garden equipment and small engines which is to be reported separately in classification 3402.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-578, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-578, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-578, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-578, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-578, filed 11/9/73, effective 1/1/74.]

WAC 296-17-580 Classification 3402.

3402-00 Air compressor: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of air compressors. This includes air or gas compressors used for paint sprayers, air tools, tire inflation, and general industrial purposes. Operations contemplated include, but are not limited to, welding, machining, general mechanical and electrical work. Machinery and equipment includes, but is not limited to, hand and air tools, welders, punches, shears, and compression equipment. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-01 Printing or bookbinding machinery: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of printing or bookbinding machinery. The outside casings of the machines may be made of plate metal that varies between 1" to 2 1/2" in thickness. The machines used to make the presses and binding machinery may include both Computer Numeric Controlled (CNC) and manual mills and lathes. Other machinery used in the manufacturing process includes, but is not limited to, welders or cutters, grinders, and drill presses. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being

performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; and the set up, installation and repair of printing or bookbinding machinery which is to be reported separately in classification 0603.

3402-02 Pump, safe, scale, auto jack, and water meter: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of pumps, safes, scales, auto jacks, and water meters. Materials range from brass screws and rubber washers used to rebuild water meters to plate metal and steel castings used for safe and pump manufacturing. Machinery includes, but is not limited to, hand tools used for repairs, lathes, welders, and pressure testers. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; the installation and repair of safes which is to be reported separately in classification 0607; and the installation of pumps which is to be reported separately in the applicable classification.

3402-03 Shoe or textile machinery: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of shoe machinery or textile machinery. Metal materials used vary in size, shape and dimension. Machinery includes, but is not limited to, drills, mills, lathes, saws, and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and the installation and repair of shoe or textile machinery which is to be reported separately in classification 0603.

3402-04 Confectioners or food processing machinery: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of food processing or confectioners machinery. Metal materials used vary in size, shape and weight. These establishments often have an assembly line operation and a separate electronic assembly area. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and the installation and repair of confectioners and food processing machinery which is to be reported separately in classification 0603.

3402-05 Machine shops, N.O.C.

Applies to establishments engaged in general machine shop operations not covered by another classification (N.O.C.), tool sharpening, and mobile welding shops. Many of the establishments in this classification are "job shops." Size and shape of materials vary with steel and aluminum being the most common. Plastics, light weight aluminum, and alloyed metals are becoming increasingly popular in the manufacture of equipment for some industries. These establishments often have welding shops along with machine shops. Machinery and equipment includes, but is not limited to, mills, lathes, grinders, saws, welding equipment, inspection equipment, and material handling equipment. Machinery is both manual and Computer Numeric Controlled (CNC). This classification also includes "mobile shops" which are used *exclusively* to repair machinery or equipment. A "mobile shop" in this classification usually means a van or pick up pulling a utility trailer equipped with hand tools, specialty tools, air tools, a compressor, and a portable welding unit. The machinery or equipment is usually repaired at the customer's location, however, sometimes the broken part is removed and taken back to the shop for repair.

This classification excludes repairs to buildings and structures which are to be reported separately in the appropriate construction classification, and mechanical repairs which are to be reported separately in the classification applicable to the work being performed.

Special note: The term "job shop" is an industry term that means the shop will produce products to customer specifications.

3402-06 Power saw, lawn and garden equipment, small motor, N.O.C.: Repair

Applies to establishments engaged in repairing small power tools, small motors powered by gas or diesel, outboard marine engines, and lawn and garden equipment not covered by another classification (N.O.C.). The largest piece of equipment repaired in this classification is generally a riding lawn mower. Classification 3402-06 is assigned in conjunction with a store classification for establishments that have a store operation and also repair the type of items they sell. Classification 3402-06 may also be assigned to a manufacturers representative who performs warranty repairs. Tools used in this type of repair are mainly hand and air tools. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and the repair of electrical motors which is to be reported separately in classification 5201.

3402-07 Gear: Manufacturing or grinding

Applies to establishments engaged in the manufacture or grinding of gears. Establishments in this classification may also cut key slots and broaches. Establishments that cut stock to manufacture the gear are often not the same ones that perform the final grinding process. Gears may go through two, three, or four different grinding, slotting, and/or keying establishments and then go to another establishment for electroplating or galvanizing before they are ready for sale or use. Precision machine shops may grind gears to the ten thousandths of an inch. Materials used are usually stainless steel, aluminum, or plastic. Machinery includes, but is not limited to, gear shapers, drill presses, mill, hobbers, grinders, some of which might be Computer Numeric Controlled (CNC). This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-08 Elevator: Manufacturing

Applies to establishments engaged in the manufacture of elevators and associated electronic components. Machinery includes, but is not limited to, mills, drills, lathes, saws, and grinders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and the installation, service, and repair of elevators which is to be reported separately in classification 0602.

3402-11 Metal goods: Manufacturing and shop services *(temporary classification)*

Applies temporarily to all establishments assigned any classification within WAC 296-17-580. When the metal goods study is complete, the establishments within this classification will be assigned to the appropriate classifications. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-12 Multimedia blasting

Applies to establishments engaged in multimedia (such as, but not limited to, glass, plastic and sand) blasting operations which strip paint or other coatings from metal or fiberglass. Most of the blasting operations in this classification are done on automobiles, but it also applies to establishments that perform blasting on items such as, but not limited to, barbecue grills, and cast iron pieces. Multimedia blasting processes in this classification are performed in a shop, use less air pressure and media with softer finishes than other blasting operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and sandblasting of buildings or structures which is to be reported separately in classification 0504.

3402-14 Furnace, heater or radiator: Manufacturing

Applies to establishments engaged in the manufacture of furnaces, radiators, or similar heating fixtures. Materials include, but are not limited to, metal cast parts, sheet metal, aluminum, or stainless steel. Machinery includes, but is not limited to, hand tools, solder guns, punches, lathes, and saws. Establishments in this classification may have separate areas for electronic assembly and/or painting. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in the manufacture of radiators for automobiles or trucks which are to be reported separately in classification 3402-48; and establishments engaged in the manufacture of baseboard heaters which are to be reported separately in classification 3404.

3402-16 Die casting

Applies to establishments engaged in the manufacture of products by die casting. Die casting is a manufacturing process for producing accurately-dimensioned, sharply-defined metal products which are referred to as "die castings." "Dies" are the steel molds used to mass produce the product. The process begins when ingots of various metal alloys are melted in die casting machines. The machine forces the metal into the die under hydraulic or pneumatic pressure. The casting quickly solidifies in the die, and is automatically ejected by the machine, and the cycle starts again. The castings are cleaned by grinding or sanding, which also removes any excess metal "flash." Many die casting manufacturers maintain their own machine shop for making the dies. Die making, when done as a part of die casting operations, is included within the scope of this classification. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; and establishments engaged in making dies for others which are to be reported separately in classification 3402-74.

3402-26 Saw blade: Manufacturing, assembly, or sharpening

Applies to establishments engaged in the manufacture, assembly, or sharpening of saw blades such as, but not limited to, those used in circular saws, band saws, ripsaws, keyhole saws, and handsaws such as hacksaws or meat saws. This classification also includes sharpening services for items such as, but not limited to, tools, scissors, and knives. Materials include, but are not limited to, high tensile steel and carbide tipped blades. Machinery includes, but is not limited to, saws, mills, drills, and hand tools. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in the repair or sharpening of chain saws which are to be reported separately in classification 3402-06; and establishments engaged in the manufacture or repair of electrical saws which are to be reported separately in classification 5201.

3402-28 Heat treating metal

Applies to establishments engaged in heat treating metal. The heat treating process may use computer numeric controlled ovens or furnaces. The oven may heat up to 1200 degrees Fahrenheit and a furnace may heat up to 2000 degrees Fahrenheit. The metal(s) is placed on a platform; the platform is hydraulically moved into the first chamber and the door is automatically closed. At this time, the oxygen is burned from the chamber. Then the second chamber door is opened and the metal enters the oven/furnace. Depending upon the specifications, the heat treating process usually takes six to sixteen hours. When the metal is finished in the heating chamber it returns automatically to the first chamber. Then the platform lowers and the metals are dipped into a cooling agent. Once the metals are cooled to room temperature the platform rises, the door opens, and the materials are removed. The process is essentially the same using noncomputer numeric controlled heat treating equipment except that, rather than being hydraulically operated, the machine operators move the metals through the system. Many establishments do not produce a product, but heat treat a variety of products to customer specifications. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-29 Nut, bolt, screw, nail, tack, rivet, eyelet spike, needle, N.O.C.: Manufacturing

Sprinkler head, speedometer, carburetor: Manufacturing or assembly

Applies to establishments engaged in the manufacture of nuts, bolts, screws, nails, tacks, rivets, eyelets, spikes, and needles not covered by another classification (N.O.C.). This classification also applies to establishments engaged in the manufacture or assembly of sprinkler heads, speedometers, or carburetors. Materials include, but are not limited to, steel or iron rods which may be pressed or formed, and small component parts. Machinery includes, but is not limited to, saws, shears, presses, chuckers, threading and tapping machines, some of which may be Computer Numeric Controlled (CNC). Establishments may have separate areas for deburring, inspecting, packing and shipping. The carburetor rebuilding may be performed on vehicles that are driven or towed into the shop, or on carburetors that have been already removed from the vehicles. In either case the repairs are made exclusively with hand and air tools and sometimes a diagnostic scope and a drill press. A speedometer is usually embodied with a mileage recording mechanism. The central feature of the device is a permanent magnet. There are gears, spindles, and a drive shaft present in most speedometers. There is also a unit counting disc and a spiral spring calibrator. Hand tools are used almost exclusively in the repair of this kind of speedometer. Today many speedometers are computer controlled. Basically, if this kind of speedometer is in need of repair, a computer chip(s) is replaced, using hand tools. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of hardware that is not covered under another classification, such as handles, latches, and hinges which are to be reported separately in classification 3404, and the repair of speedometers or carburetors in a vehicle which is to be reported separately in the appropriate vehicle repair classification.

3402-32 Abrasive wheel: Manufacturing

Applies to establishments engaged in the manufacture of abrasive wheels. Manufacturing operations often include a laboratory where carbon and other materials are mixed together to form the abrasive edge of the mainly high tensile steel wheels. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-40 Welding or cutting, N.O.C. ***(mobile operations limited to repair of equipment and machinery)***

Applies to establishments engaged in welding or cutting operations not covered by another classification (N.O.C.) either in the shop or at the customer's site. Steel is the predominant material along with some aluminum alloys. Machinery is predominantly welding equipment, but may include tools such as, but not limited to, grinders, saws, drills, and material handling equipment. This classification also includes "mobile shops" which are used *exclusively* to repair machinery or equipment. A "mobile shop" in this classification usually means a van or pick up pulling a utility trailer equipped with hand tools, specialty tools, air tools, a compressor, and a portable welding unit. The machinery or equipment is usually repaired at the customer's location, sometimes with the use of the customer's equipment; however, broken parts may be removed and taken back to the shop for repair.

This classification excludes repairs to buildings or structures which are to be reported separately in the appropriate construction classification and mechanical repairs which are to be reported separately in the classification applicable to the work being performed.

3402-48 Automobile or truck, radiator and heater core: Manufacturing and repair shops

Applies to establishments engaged in the manufacture and/or repair of automobile or truck radiator and heater cores. Manufacturers in this classification may have a die casting area and a separate electronic assembly area. Tools and equipment include, but are not limited to, hand tools, solder guns, and punches. Shops that repair radiators may work on the radiators in the vehicles, but usually the radiators have been removed from the vehicle. The radiator is examined and the core may be removed. Next the radiator is cleaned, air pressurized, and dipped in a water tank to check it for leaks. Once the leaks are found they can generally be repaired by welding the holes shut. The radiator is dipped again to ensure the repair has been made properly. Cleaning the radiator may be done by sandblasting, ultra sound baths or by "rodding" the radiator to remove corrosion. Repair equipment includes, but is not limited to, welders, air and hand tools, dipping tanks, hoists, and forklifts. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-60 Office machinery, N.O.C.: Manufacturing or assembly; Cash register or sewing machines: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of cash registers, sewing machines and office machinery not covered by another classification (N.O.C.) such as, but not limited to, copiers, collators, mail/postage machines, calculators and automatic letter openers. Component parts may be metal, plastic, or wood. Operations include, but are not limited to, cutting, shaping, forming, drilling, riveting, clamping, and bolting; there may be a separate electronic assembly area. Machinery and tools vary within this classification; some establishments use hand and air tools only, others use additional equipment such as, but not limited to, saws, lathes, mills, drills, or water jets, some of which may be Computer Numeric Controlled (CNC). This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-61 Small arms: Manufacturing, assembly, or rebuild

Applies to establishments engaged in the manufacture, assembly, or rebuild of small arms. For the purpose of this classification, small arms means .50 caliber or less, such as pistols, rifles, shotguns, and light machine guns. Operations include, but are not limited to, metal stamping of casings, machining, assembling, and a high proportion of inspecting. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in the manufacture of ammunition which is to be reported separately in classification 4601; the manufacture or repair of heavy arms which is to be reported separately in classification 5109; and gun stores which are to be reported separately in classification 6309.

3402-74 Tool: Manufacturing, not hot forming or stamping; Die: Manufacturing - ferrous

Applies to establishments engaged in tool manufacturing or die manufacturing, for others, from ferrous materials. Tools manufactured in this classification are usually cutting tools used in lathes, mills, rotors, and saws. Machinery includes, but is not limited to, sharpeners, grinders, lathes and mills, which are both manual or Computer Numeric Controlled (CNC). The die manufacturing included in this classification includes those made exclusively of ferrous materials including, but not limited to, jigs, fixtures, and dies for metal work in general. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of machine-finished tools which are to be reported separately in classification 3402-83.

3402-77 Auto, truck, semi-trailer and bus body: Manufacturing;
Travel trailer body: Manufacturing or repair

Applies to establishments engaged in the manufacture of auto, truck, and bus bodies, and travel trailer bodies manufacturing or repair. Repairs are usually made with the use of welders or cutting torches and air or hand tools. These establishments will also repair or replace hydraulic units. Material used in the manufacture of goods in this classification is usually steel and aluminum, varying in thickness from 16 gauge to plate metal up to one inch thick. Shapes include, but are not limited to, sheet metal, tubes, solid rod or I-beams. Equipment includes, but is not limited to, shears, breaks, hydraulic presses, iron workers, drill presses, grinders, welders, hoist, cranes, and forklifts. Shops may have a finish sanding area as well as a paint area where the vehicle bodies are sprayed with primer, a body bonding material, or a finish coat of paint. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-83 Tool: Manufacturing and machine finishing

Applies to establishments engaged in manufacturing and machine finishing tools. Tools manufactured in this classification are usually hand held instruments such as, but not limited to, wrenches, screw drivers, hammers, torque wrenches, pliers, and sockets. Machinery includes, but is not limited to, air and hand tools, polishers, grinders, inspection equipment, mills, lathes, shapers, and drill presses, some of which may be Computer Numeric Control (CNC). Establishments may have a galvanizing and/or electroplating area for the finish work which is included when performed by employees of employers subject to this classification. Other establishments in this classification send the finish work out. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in the manufacture of tools from ferrous materials which are to be reported separately in classification 3402-74; and establishments engaged in tool forging which are to be reported separately in classification 5106.

3402-85 Auto or truck parts: Machining or rebuild not in vehicle

Applies to establishments engaged in machining or rebuilding auto or truck parts such as, but not limited to, water pumps, fuel pumps, transmissions, heads, brake drums, ball joints, and rear ends, which are not in the vehicle. Work contemplated in this classification may also include manufacturing sockets, pulleys, shafts, fittings, flywheels, and/or bearings. Machinery includes, but is not limited to, mills, lathes, grinders, sanders, presses, welders, and balancing equipment. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in manufacturing or rebuilding auto, truck, or aircraft engines which are to be reported separately in classification 3402-86.

3402-86 Auto, truck or aircraft engine, N.O.C.: Manufacturing or rebuilding

Applies to establishments engaged in manufacturing or rebuilding auto, truck, or aircraft engines not covered by another classification (N.O.C.), including manufacturing the component parts. Establishments in this classification often specialize in the type of engines they make or rebuild. The basic difference between automobile, truck, and aircraft engines is the size and weight of the parts being worked on. Engine rebuild shops use many specialized machines and air tools to tear the core down to an engine block; then rebuild the engine. After the engine is stripped down to the engine block, it is placed in a machine called a baker which heats to approximately 600 degrees and bakes away the grease. After baking, the engine block is placed in a sand blaster where the surface is cleaned with very fine steel shot. The engine block is then placed in a large pressure washer which removes the steel shot. Next, the crank and cam shafts are ground and turned on machinery similar to lathes. There is usually a separate room or area which is called the "head shop" where the heads and valves are machined on valve grinders, valve facers, and head grinders. Engine rebuild shops that do not have the equipment to grind the crank and cam shafts will contract work out to other shops, or buy new crank shafts and cam shafts. Other machinery includes, but is not limited to, boring bars and hones to polish cylinder walls, small pressure washers for oil pans and other smaller parts, solvent tanks, and hoists or forklifts for lifting the engines or engine parts. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in machining or rebuilding auto or truck parts, other than engines, which are to be reported separately in classification 3402-85.

3402-91 Bed spring or wire mattress: Manufacturing

Applies to establishments engaged in the manufacture of bed springs or wire mattresses. The wire stock is coiled and cut to length on a coiling machine, then tempered in an oven to produce the spring. The coils are fastened to the frame either by hand or by machine. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of stuffed mattresses which are to be reported separately in classification 3708.

3402-93 Valve: Manufacturing

Applies to establishments engaged in the manufacture of valves. Valves regulate the flow of air, gases, liquids, or loose material through structures by opening, closing, or obstructing passageways. They are operated manually, electrically, with compressed air, or hydraulic pressure. Valves are usually cut from aluminum, steel, or stainless steel either by a Computer Numeric Controlled machine (CNC) or water jet machine. Depending upon the complexity of the valve, they are assembled in one or several stages. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of valves made in a die mold which are to be reported separately in classification 3402-74.

3402-94 Precision machined parts, N.O.C.: Manufacturing

Applies to establishments engaged in manufacturing precision machined parts not covered by another classification (N.O.C.). Most of these establishments are "job shops." Job shops make component parts for other businesses according to customer specifications, rather than manufacturing a specific product. Many establishments in this classification manufacture precision parts for the aerospace industry. Machining usually begins with solid blocks of material such as, but not limited to, steel, aluminum, titanium, inconel, or plastic, although some hollow tube, flat bar, and angle stock may also be used. The "rough cuts" are often made on manual machines, and the finish cuts on Computer Numeric Controlled (CNC) machines. Depending on the establishment and the job specifications, a specific part may be sent to one or more additional shops to be tempered, milled, or inspected before the original establishment is through with the manufacturing process. Some parts are so sensitive that climate controlled conditions are necessary. Both manual and CNC mills and lathes are the most common types of machines used. Others include, but are not limited to, saws, drills, and grinding machines. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-95 Storage battery: Manufacturing, assembly or repair

Applies to establishments engaged in the manufacture, assembly, or repair of storage batteries. Lead ingots, weighing 20-25 pounds, are melted and poured into a mold or casting machine. After the grids are cooled lead oxide is then pumped onto each side of a grid and cured by baking in an oven of about 300 - 400 degrees F. The plates are then assembled by placing a negative separator (zinc) between a positive separator (copper), and so forth until there are enough of these cells to form the battery. Next, they are sent to a burning machine that cures the paste and plates. After the burning process, the plates are placed into a plastic or hard rubber box-like container and cured for two or three days. The plates are welded together and the top is attached to the body of the battery case with an epoxy glue. Diluted sulfuric acid is added to the battery and then it is put on a charger. The battery is then cleaned and packed for shipping. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in the manufacture of dry cell (flashlight type) batteries which are to be reported separately in classification 3602; and establishments engaged in battery sales and installation which are to be reported separately in the applicable automotive services classification.

3402-96 Automobile or motorcycle: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of automobiles or motorcycles. Most of the manufacturing operations, such as cutting, milling, and turning, are performed with Computer Numerically Controlled (CNC) machinery. Most of the assembly operations are performed with air and hand tools. Other machinery includes but is not limited to saws, grinders, and drill presses. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when

operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged only in the manufacture of auto bodies which are to be reported separately in classification 3402-77.

3402-98 Machinery, N.O.C.: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of machinery not covered by another classification (N.O.C.). For purposes of this classification, machinery means any combination of mechanical parts constructed primarily with metal. Finished products vary widely and range from hand held machines to those weighing thousands of pounds; products include, but are not limited to, grinding machines, boring machines, conveyer systems, and wood chippers. Machinery used to manufacture these items includes, but is not limited to, lathes, mills, press, breaks, shears, and welders, some of which may be Computer Numerically Controlled (CNC). This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3402-99 Photo processing machinery: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of photo processing machinery such as, but not limited to, photo processors or film enlargers. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification when the repair is done as a part of and in connection with the manufacturing or assembly operation. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-580, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-580, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-580, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-580, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-580, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-580, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-580, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-580, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-580, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-580, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-580, filed 11/30/79, effective 1/1/80; Order 76-36, § 296-17-580, filed 11/30/76; Order 75-38, § 296-17-580, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-580, filed 11/9/73, effective 1/1/74.]

WAC 296-17-581 Classification 3403.

3403-00 Aircraft: Manufacturing

Applies to establishments engaged in the manufacture of aircraft. For the purposes of this classification "aircraft manufacturing" means the original manufacture of such aircraft as distinguished from rebuilding, modifying, or converting existing aircraft and applies *only* to the production of units that, when completed, are capable of in-air flight as distinguished from aircraft kits to be assembled by the purchaser that are not capable of air flight when sold. This classification includes clerical office and sales personnel and aircraft operations incidental to the manufacture such as test flights.

This classification excludes establishments engaged in the original manufacture of aircraft parts which are to be reported separately in classification 3405 or as otherwise provided for in WAC 296-17-58201; the manufacture of aircraft kits which is to be reported separately in the classification applicable to the work being performed; modification, repair or conversions made to an existing aircraft which are to be reported separately in classification 6804; and the *assembly of aircraft kits into an airplane* which is to be reported separately in classification 6804.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-581, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-581, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-581, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-581, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-581, filed 11/27/78, effective 1/1/79; Order 73-22, § 296-17-581, filed 11/9/73, effective 1/1/74.]

WAC 296-17-582 Classification 3404.

3404-01 Can: Manufacturing - aluminum or galvanized

Applies to establishments engaged in the manufacture of cans from aluminum or galvanized metals lighter than 9 gauge. Products include, but are not limited to, soda cans, food cans, and garbage cans. The galvanizing process includes dipping the tin/metal into liquid zinc. The manufacturing process involves cutting, forming, stamping, and soldering/welding. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-02 Galvanized iron works: Manufacturing - nonstructural

Applies to establishments engaged in the manufacture of nonstructural galvanized iron from sheet metal lighter than 9 gauge. Processes include cutting, forming, welding, riveting, punching, and drilling. The equipment used includes, but is not limited to, drills, presses, punches, shears, and press breaks. Establishments in this classification may paint, powder coat, or silk screen their products; which is included when performed by employees of employers subject to this classification. This classification includes the repair of items being manufactured or assembled when done by employees of employers subject to this classification and when the repair work is done as a part of, and in connection with, the manu-

facturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-03 Hardware, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of hardware that is not covered by another classification (N.O.C.), such as, but not limited to, handles, latches, hinges, and buckles. Operations include, but are not limited to, stamping and assembly, electroplating and/or other types of finishing. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of nuts, bolts, screws, nails, tacks, rivets, eyelets, spikes, and needles which are to be reported separately in classification 3402.

3404-04 Metal stamping

Applies to establishments engaged in the mass production of products by metal stamping techniques which impress, cut out, or shape something to a desired size. Products produced by this technique include, but are not limited to, license plates, pie plates, pots, and waste baskets. This classification includes any finish work when performed by employees of employers subject to this classification. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-06 Metal sign: Manufacturing

Applies to establishments engaged in the manufacture of signs from metals lighter than 9 gauge. Materials may be cut, punched, drilled, riveted, and welded. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, water jets and welders. All operations necessary to make a sign operative, such as, but not limited to, adding electrical wiring or circuitry, painting, powder coating, or silk screening are included within the scope of this classification. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; the installation or removal of signs outside of buildings which is to be reported separately in classification 0403; the installation or removal of signs inside of buildings which is to be reported separately in classification 0513; sign painting or lettering on the inside of buildings, or establishments that paint on or apply lettering to sign "backings" that are manufactured by others, which is to be reported separately in classification 4109; and establishments engaged in the manufacture of wood or plastic signs which are to be reported separately in the classification applicable to the manufacturing process and materials.

3404-07 Metal goods, N.O.C.: Manufacturing or assembly from materials lighter than 9 gauge

Applies to establishments engaged in the manufacture or assembly of metal goods from materials lighter than 9 gauge which are not covered by another classification (N.O.C.) including water heaters, electric baseboard heaters, electric furnaces and bicycles. Materials may be cut, punched, drilled, riveted, and welded. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-12 Aluminum ware: Manufacturing from sheet aluminum

Applies to establishments engaged in the manufacture of aluminum ware such as, but not limited to, mail boxes, buckets, gutters, and down spouts, from sheet aluminum. Materials may be cut, bent, punched, drilled, riveted, and welded. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-18 Metal coffin/casket: Manufacturing or assembly

Applies to establishments engaged in the manufacture of coffins or caskets out of metal. Materials may be cut, bent, punched, drilled, riveted, and welded. Machinery includes, but is not limited to, punches, presses, drills, shears, break presses, and welders. This classification includes the repair of items being manufactured or assembled when done by

employees of an employer subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification. Physically separated upholstery departments of establishments engaged in furniture, coffin, casket manufacturing, assembly, or finishing may be reported separately in classification 3808 provided all the conditions in the general reporting rule covering the division of an employees hours have been met.

This classification excludes all activities away from the shop or plant, and establishments engaged in the manufacture of caskets from wood or plastic which are to be reported separately in the classification applicable to the manufacturing process and materials.

3404-19 Metal awnings: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of awnings from metals lighter than 9 gauge. Materials may be cut, punched, drilled, riveted, and bent. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant, and establishments engaged in the manufacture of awnings from canvas or other textiles which is to be reported separately in classification 3802.

3404-20 Metal furniture, shower door, showcases: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of furniture, shower doors, or showcases made with metals lighter than 9 gauge. Other items manufactured in this classification include, but are not limited to, file cabinets, desks, and stands. Material may be cut, punched, drilled, riveted, and bent. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification. Physically separated upholstery departments of establishments engaged in furniture, coffin, casket manufacturing, assembly, or finishing may be reported separately in classification 3808, provided all the conditions of the general reporting rule covering the division of an employee's hours have been met.

This classification excludes all activities away from the shop or plant and establishments engaged in the manufacture of wood furniture which are to be reported separately in classification 2905.

3404-21 Stove: Manufacturing from metals lighter than 9 gauge

Applies to establishments engaged in the manufacture of stoves from metals *lighter than 9 gauge*. Types of stoves include, but are not limited to, electric or gas cook stoves. Accessory materials such as, but not limited to, electrical assembly units, glass, plastic, or wood may be used in the manufacture of stoves. Materials may be cut, punched, drilled, riveted, and bent. Establishments in this classification may paint or powder coat their products which is included when performed by employees of employers subject to this classification. Machinery includes, but is not limited to, punches, presses, drills, shears, brake presses, grinders and welders. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant, and establishments engaged in the manufacture of wood stoves or other stoves made of metals 9 gauge or heavier which are to be reported separately in classification 5209.

3404-24 Metal electric or gas lighting fixtures, lampshades or lantern: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of metal fixtures, lampshades, or lanterns from materials lighter than 9 gauge. The metal fixtures may be equipped with electrical or gas lighting and used as signs or other display mediums. Metal may be cut, punched, drilled, riveted, and bent. Depending on the item being made, electrical or gas-filled tubes or bulbs may be attached. Machinery includes, but is not limited to, punches, presses, drills, shears, break presses, grinders, welders, and solders. Establishments in this classification may make a finished product or only component pieces. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes establishments engaged in the manufacture of neon tube signs or displays that are not attached to metal backings which are to be reported separately in classification 3602, and all activities away from the shop or plant.

3404-25 Brass or copper goods: Manufacturing

Applies to establishments engaged in the manufacture of brass or copper goods such as, but not limited to, belt buckles, lamp stands, cooking utensils, and flower pots. Materials may be cut, punched, drilled, riveted, and bent. Machinery

includes, but is not limited to, punches, presses, drills, shears, break presses, water jets, grinders, welders/solders and brazing guns. Establishments in this classification may make a finished product or a component part. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-26 Aluminum window, sash or door: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of windows, sashes or doors from aluminum. Accessory materials such as, but not limited to, glass, wood or plastic may also be used in the assembly process. Materials may be cut, punched, drilled, riveted, and bent. Machinery includes, but is not limited to, punches, presses, drills, shears, break presses, grinders, and welders/solders. Establishments in this classification may make a finished product or only component parts. Manufacturers may paint, enamel, or bake a finish onto products, which is included when performed by employees of employers subject to this classification. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant; establishments engaged in manufacturing vinyl window sashes which are to be reported separately in classification 3512; and establishments engaged in manufacturing wooden window sashes and doors which are to be reported separately in classification 2903.

3404-27 Auto or truck parts, N.O.C.: Manufacturing or assembly; miscellaneous stamped parts

Applies to establishments engaged in the manufacture or assembly of auto or truck parts not covered by another classification (N.O.C.), and of miscellaneous stamped parts, such as, but not limited to, hub caps, fenders, and trim. Galvanizing or electroplating is included in this classification when performed by employees of employers subject to this classification. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

3404-29 Metal ski and toboggan: Manufacturing

Applies to establishments engaged in the manufacture of skies or toboggans primarily from metal although wood or plastic component parts may also be used. Materials may be cut, punched, drilled, riveted, and bent. Machinery includes, but is not limited to, punches, presses, drills, water jets, shears, break presses, grinders, and welders/solders. Establishments in this classification may make a finished product or only a component part. This classification includes the repair of items being manufactured or assembled when done by employees of an employer having operations subject to this classification and when the repair work is done as a part of, and in connection with, the manufacturing or assembly operations. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes all activities away from the shop or plant.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-582, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-582, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-582, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-582, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-582, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-582, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-582, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-582, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-582, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-582, filed 11/13/80, effective 1/1/81; Order 75-38, § 296-17-582, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-582, filed 11/9/73, effective 1/1/74.]

WAC 296-17-58201 Classification 3405.

3405-01 Aircraft parts, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of aircraft parts not covered by another classification (N.O.C.), usually from steel and aluminum mixes and exotic metals. For the purpose of this rule, aircraft parts means the component parts making the aircraft operative and becoming part of the aircraft when being manufactured by the aircraft manufacturing company. The component parts manufactured in this classification are usually small, light weight, and can easily be held in the hand. Machinery includes, but is not limited to, mills, lathes, grinders, and forklifts. Computer Numeric Controlled (CNC) equipment is used most of the time for many of the parts being mass produced. Once pieces are cut and milled, they are usually deburred, then inspected and prepared for shipping in separate areas. Businesses in this classification routinely employ engineers and draftsmen who perform office work only who may be reported in classification 4904 provided all the conditions in the general reporting rule covering standard exception employees have been met. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

Special note: This classification is not to be assigned to an employer who has operations reported separately in classifications 3402, 3404, 3510, 3511, 3512, or 5201 unless all the conditions in the general reporting rule covering the operation of a secondary business have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58201, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58201, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-58201, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-58201, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-58201, filed 2/28/85, effective 4/1/85; 81-24-042 (Order 81-30), § 296-17-58201, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-58201, filed 11/27/78, effective 1/1/79.]

WAC 296-17-583 Classification 3406.

3406-00 Automotive or truck gas service stations, N.O.C.

Applies to establishments operating full service gasoline or diesel service stations not covered by another classification (N.O.C.) and includes lube and oil change specialists and mobile lube and oil services. Full service includes, but is not limited to, pumping gas for customers, replacing wiper blades, checking and/or filling the fluid levels (oil, transmission, wiper wash and antifreeze), and adding air to the tires. The repairs included in this classification are oil and filter changes, tune-ups, replacement of brakes, front end alignments and the repair or replacement of tires. This classification includes cashiers.

This classification excludes portable automobile or truck car washes which are to be reported separately in classification 6602; establishments engaged in automobile or truck repair services and tune up specialists which are to be reported separately in classification 3411; semi truck, tractor, or bus repair services which are to be reported separately in classification 3413; self-service gas stations which are to be reported separately in classification 3409; and convenience grocery stores or mini-markets with self-service gasoline operations which are to be reported separately in classification 3410.

3406-01 Automobile or truck storage garages

Applies to establishments operating automobile or truck storage garages. Generally, these types of storage garages consist of an enclosed structure and usually with more than one level of parking. Storage garages may provide additional incidental services such as, but not limited to, gasoline, tune-ups, washing and waxing services, as well as cashiers and full time attendants or security personnel.

This classification excludes portable automobile or truck car washes which are to be reported separately in classification 6602; establishments providing parking lot services which are to be reported separately in classification 6704; automobile or truck repair services which are to be reported separately in classification 3411; semi truck, tractor, or bus repair services which are to be reported separately in classification 3413; self-service gas stations which are to be reported separately in classification 3409; and full service gas station services which are to be reported separately in classification 3406-00.

Special note: Storage garages applicable to this classification are distinguishable from parking lots in classification 6704 in that parking lots usually are not an enclosed structure, and they do not provide service to automobiles.

3406-04 Automobile or truck - detailing by contractor

Applies to establishments engaged in providing automobile or truck detailing services. Detailing involves complete, in-depth cleaning of exteriors and interiors such as, but not limited to, washing, waxing, polishing, buffing, vacuuming or otherwise cleaning the auto bodies, chrome work, tires, hub caps, windows, mirrors, carpets and seats. This classification includes the tinting of automobile or truck window glass when performed by employees of the detailing operation, as well as cashiers.

This classification excludes portable automobile or truck car washes which are to be reported separately in classification 6602; tinting of automobile or truck window glass performed by a glass dealer which is to be reported separately in classification 1108; detailing performed in connection with automobile or truck dealers, service centers or repair garages which are to be reported separately in classification 3411; detailing performed in connection with automobile or truck body and fender repair shops which are to be reported separately in classification 3412; detailing performed in connection with semi truck, tractor or bus dealers, service centers or repair garages which are to be reported separately in classification 3413; and detailing performed in connection with full service gas stations which are to be reported separately in classification 3406.

3406-05 Automobile or truck car washes

Applies to establishments providing automobile or truck washing services. This classification includes the exterior washing, waxing, polishing or buffing, cleaning of chrome and tires, and the interior cleaning of windows, carpets, dash and seats. These services may be performed at a coin operated self-service unit, or at a full service automatic unit where the vehicle is conveyed through the line assisted by attendants. This classification includes cashiers and the sale of accessory items such as, but not limited to, bottled car care products, air fresheners, floor mats, beverages and snack foods.

This classification excludes portable automobile or truck car washes which are to be reported separately in classification 6602; washing services performed in connection with automobile or truck dealers, services centers or repair garages which are to be reported separately in classification 3411; washing services performed in connection with automobile or truck body and fender repair shops which are to be reported separately in classification 3412; washing services performed in connection with semi truck, tractor or bus dealers, services centers or repair garages which are to be reported separately in classification 3413; washing services performed in connection with full service gas stations which are to be reported separately in classification 3406; washing services performed in connection with self-service gasoline operations which are to be reported separately in classification 3409; and washing services performed in connection with convenience stores that have self-service gasoline operations which are to be reported separately in classification 3410.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-583, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-583, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-583, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-583, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-583, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-583, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-583, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086

(Order 79-18), § 296-17-583, filed 11/30/79, effective 1/1/80; Order 73-22, § 296-17-583, filed 11/9/73, effective 1/1/74.]

WAC 296-17-584 Classification 3407.

3407-00 Gas or oil dealers, wholesale or retail, including fuel oil, propane or butane

Applies to establishments engaged in the distribution of fuel oil, liquefied petroleum gases (propane and butane) and gasoline on a retail or wholesale basis. Dealers may maintain their own storage tanks on their premises and receive gas or oil through a pipeline from a refinery, by rail or tanker truck, or they may receive their supplies from a separate distribution facility. Gas dealers will deliver gasoline and lubricating oils directly to retail gas stations in large tank trucks. Fuel oil is delivered to customers by pump trucks and pumped into the customer's tank. Liquefied petroleum gases (LPG) is delivered to customers by pump truck or in prefilled cylinders. Some dealers may also provide, through sale or lease, the installation and maintenance of gas appliances which is included in this classification when done by employees of an employer subject to this classification. This classification includes the incidental mixing or blending of oil or gas with additives, the draining, repair, installation or removal of customer's oil tanks, maintenance contracts and emergency repairs.

This classification excludes the repair, installation or removal of underground oil storage tanks by a contractor which is to be reported separately in classification 0108; the installation or repair of furnaces by a contractor which is to be reported separately in classification 0307; and the construction or repair of exterior commercial storage tanks by a contractor which is to be reported separately in classification 0508.

3407-01 Asphalt, bitumen dealers

Applies to establishments engaged as *dealers* of asphalt and bitumen which can be either a by-product of petroleum refining or found in naturally occurring deposits. Dealers may grind and mix the raw asphalt and bitumen with sand, gravel or limestone to produce a mixture which can be suitable for some paving applications or sold to an asphalt paving material manufacturer for further processing. The product is usually not packaged, but sold by the truckload. When this mixing process is conducted in connection with an oil/petroleum refining operation, it is to be reported in classification 3407-03.

This classification excludes the mining or quarrying of raw materials which is to be reported separately as applicable; establishments engaged in the manufacture of asphalt mixtures for road paving which is to be reported separately in classification 3407-18; and the paving of roads or other surfaces which is to be reported separately in classification 0210 or 0212.

3407-02 Processing waste oils, solvents, antifreeze, paints, and similar materials

Applies to establishments engaged in processing waste oils, used solvents, antifreeze, paints, and similar hazardous materials. Mobile recycling units engaged in similar activities are included in this classification. The processes used by establishments in this classification are similar in that a sample of the waste material usually has been laboratory tested so the composition of the substance is known prior to either being picked up by the establishment's own trucks, or delivered by the customer. Depending on the material and quantity, it may arrive in drums or by tanker trucks. Incoming oil is pumped into waste oil storage tanks where water settles out. After the settling process, the oil goes to treatment tanks where it is heated to boil off remaining water and vaporize gases. There are other methods of recycling the oil, using chemicals, which are also included in this classification. The end product can be used in industrial burners or for cutter fuel. Solvents and antifreeze can be recycled through a distilling process, and used again.

This classification excludes establishments engaged in hazardous/toxic material processing or handling, not described above, such as processing of medical or septic tank waste, drug lab or hazardous spill cleanup (excluding oil spill cleanup on land - classification 0101), and reprocessing or handling of low-level radioactive materials which are to be reported separately in classification 4305.

3407-03 Oil refining - petroleum, including manufacture of products from oil; gasohol - distilling or refining

Applies to establishments engaged in the operation of oil refineries. Oil refineries receive crude oil by pipeline, truck or tanker ship, process it into products such as, but not limited to, gasoline, natural gas, kerosene, fuel oil, lubricating oils and asphalt, and distribute it to their customers. Current refining processes involve four basic steps; separation, conversion, treating and blending. These processes are highly automated and involve the use of receiving tanks, processing units, distillation towers, intermediate storage and pipelines. Included within the scope of this classification are any additional processing methods used to produce the finished secondary products. This classification includes the production of gasohol and the preliminary separation of crude oil (called "topping") at a well site by a contractor.

This classification excludes oil refinery maintenance by a contractor which is to be reported separately in classification 0603; construction of an oil refinery or storage tanks which is to be reported separately in classification 0508; cleaning of storage tanks by a contractor which is to be reported separately in classification 0504; operation of an oil well and incidental preliminary separation of crude oil ("topping") at the well site which is to be reported separately in classification 3407-05; and operation of an oil pipeline only which is to be reported separately in classification 3407-12.

3407-04 Asphalt or tar - distilling or refining

Applies to establishments engaged in the production of commercial asphalt or tar. Products produced in this classification differ from those in 3407-01 in that products in 3407-04 are refined to, and sold as, a liquid or semi-liquid. Low grade crude oil, petroleum distillate (by-product of oil refining operations) and coal-tar oil must be treated in a heat exchange system and still before undergoing a final processing in a fractioning tower (a process also used in oil refining) to separate the asphalt or tar. Finished products and by-products include, but are not limited to, asphalt roofing compound, asphalt for use in manufacturing felt roofing paper, trinidad asphalt used in road paving, tar to be used in various

paving and waterproofing applications and coal tar which is used in drugs and waterproofing products. When this process is conducted in connection with an oil/petroleum refining operation, it is to be reported in classification 3407-03.

This classification excludes contractors engaged in distillery/refinery maintenance which is to be reported separately in classification 0603; contractors engaged in cleaning of storage tanks which is to be reported separately in classification 0504; and construction of refineries and storage tanks which is to be reported separately in classification 0508.

3407-05 Gas or oil well operation

Applies to establishments or contractors engaged in the routine operation of producing oil or gas wells. Work contemplated by this classification includes, but is not limited to, all routine operation and maintenance required such as, but not limited to, land clearing and excavation to create slush pits, fire walls, pipe laying, machinery and equipment (such as oil, gas or water pumps) installation and operation, preliminary separation of crude oil, and monitoring of oil or gas production when performed by employees of an employer having operations subject to this classification.

This classification excludes derrick or storage tank erection which is to be reported separately in classification 0508; oil well drilling which is to be reported separately in classification 0103; excavation by a contractor which is to be reported separately in classification 0101; pipe laying by a contractor which is to be reported separately in classification 0107; cleaning of storage tanks by a contractor which is to be reported separately in classification 0504; machinery or equipment maintenance by a contractor which is to be reported separately in classification 0603; and the operation of an oil or gas pipeline only which is to be reported separately in classification 3407-12.

3407-07 Oil or gas wells - cementing

Applies to establishments engaged in providing cementing services to oil and gas well drilling operations. Cementing is required to fill the space between the outer edge of the hole being drilled and the metal casing which is being installed in segments to line the hole. The mixed cement is pumped, under pressure, down into the casing. When it reaches the bottom of the existing hole, the continuing pressure forces it upward around the outside of the casing to the top of the hole or to where it will meet the last segment to have been cemented. This will serve to keep the casing stable and also to prevent any leakage of oil or gas from the casing into the surrounding soil when the well is operational. Cementing contractors can use the drilling derrick already in place to support their machinery. This classification also includes filling the entire well hole with cement, after the casing is disassembled and removed, when the well is no longer operational.

This classification excludes oil or gas well cementing done by employees of an oil well drilling contractor which is to be reported separately in classification 0103.

3407-12 Oil or gas pipeline operation

Applies to establishments engaged in operating an oil or gas pipeline. The pipeline may be used to transport crude oil from a well to a refinery or processed oil from a refinery to a remote storage facility or customer. Work contemplated by this classification includes, but is not limited to, operating and maintaining above or below-ground pipelines, feeder and distribution lines, pumping stations to maintain flow, storage facilities, and meters and monitoring equipment. This classification is appropriate whether the pipeline is being operated by the owner or a contractor.

This classification excludes oil or gas pipeline operations done in connection with an oil refinery which are to be reported in classification 3407-03; oil or gas pipeline operations done in connection with the operation of an oil or gas well which are to be reported in classification 3407-05; contractors engaged in above or below ground pipe installation which is to be reported separately in classification 0107; construction of oil refineries and/or storage tanks which is to be reported separately in classification 0508; and the installation of pumps or monitoring equipment which is to be reported separately in classification 0603.

3407-17 Asphalt roofing material - manufacturing

Applies to establishments engaged in the manufacture of asphalt mixtures used in the preparation of building or roofing papers and shingles from raw materials purchased from others. The operations may include the incidental distillation of the asphalt flux.

Asphalt Roofing Materials - Some plants are fully automated, with controls, gauges, and valves housed in a separate room. Liquid asphalt flux, purchased from refineries, is hauled in by tanker trucks owned either by the refineries or the manufacturer, and is pumped directly into "air stills" or into holding tanks. An oxidation process takes place in the air stills. The asphalt flux is heated, then pumped into cooling tanks before it is pumped through pipes to a bulk loading/delivery station or to another area for further use. The processed hot asphalt may also be pumped into a blending tank where it can be blended with mineral spirits or naphtha to produce "cut-back" asphalt which is used in "cold asphalt" applications, or mixed with water to obtain an emulsified asphalt which "sets up" when it cools.

Asphalt Impregnated Felt Roofing Paper - Large rolls of felt paper are unrolled and automatically fed into a saturation tank where the paper is impregnated with the hot asphalt mixture. The paper then goes through several large rollers for cooling and smoothing, and is finally cut to size and rolled to produce rolls of asphalt coated felt roofing paper ready for use.

Asphalt Fiberglass Shingles - Limestone is delivered in bulk by suppliers' trucks and blown pneumatically into storage tanks. In the production processes it goes through a heater and is then mixed with the liquid asphalt. The production line starts with huge rolls of fiberglass which are fed continuously (roll ends spliced together automatically) into the process. The asphalt mixture is crushed into both sides of the fiberglass by large rollers and the excess asphalt scraped off. Granules are applied to the top side and sand is applied to the back side of the asphalt coated fiberglass. The coated fiberglass is then run through coolers. Granules are pressed into the coating and the material is fed/hung into "loopers" for additional cooling. After cooling, the coated material is automatically cut into strips, cut to specified width and length, "dragon teeth" (notches) cut, asphalt applied to the back of

the "dragon teeth", then the "teeth" applied to the shims, and the asphalt shingle is complete.

This classification excludes asphalt or bitumen dealers who are to be reported separately in classification 3407-01, asphalt or tar distilling or refining operations which are to be reported separately in classification 3407-04, and asphalt paving material manufacturers who are to be reported separately in classification 3407-18.

3407-18 Asphalt paving material - manufacturing

Applies to establishments engaged in the manufacture of asphalt mixtures used for road paving operations from raw materials purchased from others. This classification applies only to the operation of the asphalt plant which usually consists of a loader, a control operator, and a maintenance worker. (To qualify for classification 3407-18 the maintenance worker's duties must relate *only* to the asphalt plant.) This classification does not apply to workers involved in pit, crusher and bunker operations. The operations may include the incidental distillation of the asphalt flux which is included in this classification. Asphalt paving mixture plants are usually fully automated and controlled from a central control room overlooking the production area. Sand and gravel may be obtained from the producer's own gravel pit or purchased from independent suppliers. Liquid asphalt is obtained directly from either the refineries or from an asphalt dealer. Suppliers usually deliver raw materials to the manufacturing plant.

In a *batch plant*, each batch is made separately. The stored aggregate is loaded into hoppers, then carried by conveyor through a dust collecting system prior to entering the dryer drum. In the dryer drum the aggregate is dried and heated to specified temperatures before being conveyed to the "batcher" where it is screened, then stored in bins. Heated liquid asphalt is weighed to precise specifications required for that batch. Measured amounts of aggregate and liquid asphalt are in a pug mill to desired state, then discharge into trucks to be delivered to customers or stored in a silo.

In a *drum plant* the mix is continuous with several of the processing steps being combined in the drum. The measured cold aggregate is fed directly into the burner end of the drum for drying and heating. A measured amount of hot oil asphalt is dumped into the drum and mixed with the heated aggregate. The mixed product is conveyed into storage silos where it is held until pumped into delivery trucks.

This classification excludes workers involved in pit, crusher and bunker operations who are to be reported separately in classification 0112; paving contractors who manufacture asphalt paving material for their own use who are to be reported separately in the appropriate construction classifications; asphalt or bitumen dealers who are to be reported separately in classification 3407-01; asphalt or tar distilling or refining operations which are to be reported separately in classification 3407-04; and establishments engaged in the manufacture of asphalt roofing material which are to be reported separately in classification 3407-17.

Special note: If the product is manufactured by paving contractors for sale to the general public, as well as for their own use, and if the employees operating the asphalt plant have no other duties, classification 3407-18 would apply to the asphalt plant employees.

3407-19 Dewatering sludge; advanced recycling of plastics and tires; On-site oil filtering

Applies to establishments engaged in providing mobile dewatering services to waste sludge producers through the use of mobile decanter centrifuges. The centrifuges and control instrumentation is highly specialized equipment designed specifically for the dewatering of sludge to concise quality specifications as determined by the client. Mobile decanter centrifuge installations include dredging and pumping equipment, flocculation systems, and portable electrical supply, as well as trucks for transferring the dewatered sludge. The ultimate disposal of the dewatered sludge is provided by either a subcontractor or by the client. The dewatered sludge can be used in a wide variety of applications such as composting and land reclamation. This classification also applies to establishments engaged in advanced recycling of plastics and tires. The process is similar to a small refinery. Either pelletized or shredded plastic material made from used consumer materials, or shredded used tire material may be used. The plastic or tire material is fed into a retort which decomposes the material using heat without oxygen, so the material is not burned. As the hot vapor gas cools, it is condensed into oil. Oil from the plastic processing is shipped to refineries where it will be refined further into plastic base material. Oil from the chipped tires is usually sold to oil blending companies. This classification also applies to on-site oil filtering. The usual process is filtering the oil through a filtering mechanism and then back into its original tank. This service may be performed on ships, in industrial plants, or at gas or oil storage facilities.

This classification excludes the "rig up/down" process (unloading and setting up the equipment at a new job site, and tearing it down and loading it on trucks to haul it to the next job site) which is to be reported separately in classification 0603.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-584, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-584, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-584, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-584, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-584, filed 11/9/73, effective 1/1/74.]

WAC 296-17-585 Classification 3408.

3408-00 Natural gas companies

Applies to establishments engaged in the operation of natural gas companies which distribute gas through gas mains or pipes to local consumers. Employments covered in this classification include clerical office and sales personnel, store employees, meter readers, and drivers. This classification also includes local gas main connection, new construction and extension of lines, maintenance and operation of plant equipment, installation and repair of plant pressure regulators, and installation and repair of meters, appliances, furnaces and gas regulators on piping within a customers' premises when performed by employees of an employer subject to this classification.

This classification excludes contractors engaged in gas line construction, maintenance or repair who are to be reported separately in classification 0107; contractors

engaged in the installation of heating systems who are to be reported separately in classification 0307; contractors engaged in the installation of gas appliances who are to be reported separately in classification 0607; and contractors engaged in the installation of hot water tanks who are to be reported separately in classification 0306.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-585, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-585, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-585, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-585, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-585, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-585, filed 11/9/73, effective 1/1/74.]

WAC 296-17-58501 Classification 3409.

3409-00 Self-service gas stations

Applies to establishments engaged in self-service gas operations. A self-service station is a facility where the customers pump gas into their own vehicles with no assistance from any of the establishment's employees. Typically, the only employee involved in the operation is a cashier who monitors the pumps from inside a booth and collects the payment from the customer. Sales of cigarettes and limited snack items are allowed in this classification.

This classification excludes full service stations, establishments with both self-serve and full or limited service operations at the same location, or any type of service stations with gasoline operations that offer any repair or direct services to the customer's vehicle, regardless of the percentage of the activities, at the same location, which are to be reported separately in classification 3406; and establishments who operate a self-service gas station with a convenience store or mini-mart operations which are to be reported separately in classification 3410.

Special note: The extent and type of the groceries available for sale at a self-service only establishment must be determined to assign the appropriate classifications. Generally, if only convenience items such as oil, gas additives, cigarettes and snack foods such as candy, gum, chips, and soft drinks are available, classification 3409 would be allowed. However, if more than the items listed above are available such as milk, bread, canned food, or fast food service, classification 3410 would apply. Establishments with multiple locations are to be classified in accordance with the general reporting rule covering the operation of a secondary business.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58501, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58501, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-58501, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-58501, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-58501, filed 11/30/79, effective 1/1/80.]

WAC 296-17-58502 Classification 3410.

3410-00 Convenience grocery stores or mini-markets with self-service gasoline operations

Applies to establishments engaged in operating convenience grocery stores or mini-markets with self-service gasoline operations. These establishments provide retail sale of convenience grocery items, not just snack items, in addition to self-service gasoline. Gasoline operations are limited to self-service only where the store employee is a cashier who monitors the pumps and collects the payments inside the store. Self-service/convenience store operations in classification 3410 differ from self-service gas stations in classification 3409 in that establishments in classification 3410 provide a more extensive line of grocery items. In addition to snack foods, staples such as bread, milk, and canned foods are available for sale. They may also prepare food such as sandwiches, chicken, jo jos, or hot dogs, and occasionally fill a customer's propane tank, all of which is included within the scope of this classification.

This classification excludes establishments which provide any full service or limited services in addition to self-service operations at the same location which are to be reported separately in classification 3406; establishments which provide only self-service gasoline operations and whose grocery items are limited to prepared snack foods such as chips and candy, and cigarettes which are to be reported separately in classification 3409; and convenience stores with no gasoline services which are to be reported separately in classification 6403.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58502, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-58502, filed 5/31/93, effective 7/1/93.]

WAC 296-17-58503 Classification 3411.

3411-00 Automobile: Dealers, service centers, repair garages; Automobile or recreational vehicle rental agencies

Applies to establishments engaged in the sales, servicing and repairing automobiles and trucks which they have sold, leased, or rented. Work contemplated by this classification includes, but is not limited to, all phases of automotive mechanical service and repair work, washing, vacuuming, and waxing vehicles, and automobile and truck detailing such as striping, window tinting, vinyl repair, installing molding and electronic accessories when performed by employees of an employer subject to this classification. This classification includes service managers, parts department employees who have shop exposure, towing service for in-shop repairs, lot personnel, and customer courtesy van or car drivers. Car rental or leasing employees who perform similar duties are also assigned to this classification. Recreational vehicle (motor home) dealers are assigned to this classification provided the dealer is not engaged in the sales of modular or mobile homes at the same location. For purposes of this classification the term "recreational vehicles" will also include travel trailers, campers, and canopies when sold by a dealer that also sells motorized recreational vehicles.

This classification excludes recreational vehicle dealers who also sell factory built housing units such as modular and mobile homes who are to be reported separately in classification 3415; parts department employees who are not exposed to any hazards of the repair shop who are to be reported separately in classification 6309; auto body shop employees who are to be reported separately in classification 3412; and automobile or truck sales employees who may be reported separately in classification 6301 provided all the conditions of the general reporting rule covering standard exception employees have been met.

Special note: Used car dealers will normally not have repair garages or parts departments. They will however, have lot personnel and detailers. Car rental and lease agencies will normally have all the operations described above with the exception of parts department employees. New car dealers will routinely have all of the operations described above. Establishments engaged exclusively in truck canopy sales are to be reported separately in classification 1106. Establishments engaged in providing towing service for hire are to be reported separately in classification 1109. For purposes of this classification "towing for hire" means a towing service not performed in connection with repairs to be done by the repair shop.

3411-01 Automobile: Service centers, repair shops or garages

Applies to establishments engaged in servicing and repairing automobiles for others. Work contemplated by this classification includes, but is not limited to, all phases of automotive mechanical service such as engine overhauls and rebuilding, resurfacing heads, valve grinding, transmission overhauls or rebuilding, electrical repairs, brake service, engine tune ups, fuel injection service, carburetor repair, and engine diagnostic service when performed by employees of an employer subject to this classification. This classification includes service managers, parts department employees who have shop exposure, incidental sales of reconditioned cars, towing service for in-shop repairs, and customer courtesy van or car drivers. Parts department employees who are not exposed to any hazards of the repair shop may be reported separately in classification 6309.

This classification excludes auto body shop employees who are to be reported separately in classification 3412.

Special note: While most businesses assigned to this classification have an inventory of parts which they use in the service and repair of customer vehicles, some employers have full line auto parts stores. Care needs to be taken when considering assignment of classification 6309 for auto part sales. Only those businesses that have a full line auto parts store which is physically separated from the repair shop and whose sales of auto parts are primarily for off-premises repair (do it yourself repair) should be considered for classification 6309. *This classification does not apply to auto repair shops that also sell and install tires on customer vehicles. See classification 6405 for auto repair shops that also sell and install tires.* Establishment engaged in providing towing service for hire are to be reported separately in classification 1109. For purposes of this classification "towing for hire" means a towing service not performed in connection with repairs to be done by the repair shop.

3411-02 Automobile: Service specialty shops

Applies to establishments engaged in providing specialized automotive repair services such as air conditioning systems, muffler repair, cruise controls and electrical systems. Work contemplated by this classification includes, but is not limited to, inspection of vehicle components for wear, diagnostic analysis, and repair of various components such as brakes and cooling systems, after-market installation of components such as cruise control, air conditioning systems, and sun roofs; and specialized repair services such as mufflers and transmissions. This classification includes service managers, part sales, towing service for in-shop repairs, and customer courtesy van or car drivers.

Special note: Businesses assigned to this classification will generally have an inventory of supplies and parts which they use in the service and repair of customer vehicles although some sales of parts and components may occur. *This classification does not apply to any shop that sells and installs tires on customer vehicles. See classification 6405 for auto repair shops that also sell and install tires.* Establishment engaged in providing towing service for hire are to be reported separately in classification 1109. For purposes of this classification "towing for hire" means a towing service not performed in connection with repairs to be done by the repair shop.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58503, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58503, filed 5/31/96, effective 7/1/96.]

WAC 296-17-58504 Classification 3412.

3412-00 Automobile and truck: Body and fender repair shops

Applies to establishments engaged in repairing and refinishing automobile and truck body panel components for others. Work contemplated by this classification includes, but is not limited to, all phases of auto body repair work and panel replacement, finish removal, sandblasting or plastic medium blasting, painting, washing, vacuuming, and waxing vehicles, glass repair, upholstery work, and automobile and truck detailing such as striping, vinyl repair, window tinting (applying film to windows), installation of body and wheel molding and sunroofs, incidental glass repair or mechanical repair associated with a collision repair or car restoration, and installation of electronic accessories when performed by employees of an employer subject to this classification. The repair of fiberglass or sheet metal boat bodies and spray-on pickup truck bedliners is also included in this classification. This classification includes shop managers, parts and paint mixing department employees, towing service for in-shop repairs, incidental sales of rebuilt cars and trucks, and customer courtesy van or car drivers. Estimators may be reported separately in classification 6303 provided all the conditions of the general reporting rule covering standard exception employees have been met.

This classification excludes the *routine* servicing or repair of automobiles or trucks *not done* in conjunction with collision repair or car restoration which is to be reported separately in classification 3411; the servicing or repair of mechanical or electrical systems in boats which is to be reported separately in classification 3414; and the repair of wooden boats which is to be reported separately in classification 2903.

Special notes: Auto body shops will routinely have a physically separate area where they store and mix paints. The separate paint storage and mixing area is generally a requirement of local fire codes and insurance policies. This separate area does not constitute a separate operation subject to a different classification. Some shops may also carry an inventory of repair panels, trim pieces and molding. Regardless of the volume of parts and supplies it is included within the basic

scope of classification 3412. Establishment engaged in providing towing service for hire are to be reported separately in classification 1109. For purposes of this classification "towing for hire" means a towing service not performed in connection with repairs to be done by the repair shop.

Care must be taken in assigning classification 3411-01 to an establishment engaged in body and fender repair. An establishment *could* have both classifications 3411 and 3412 if they also provide *routine* mechanical or electrical repair services *not* in conjunction with collision repair or car restoration.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58504, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58504, filed 5/31/96, effective 7/1/96.]

WAC 296-17-58505 Classification 3413.

3413-00 Bus, semi tractor, farm tractor, construction equipment: Service centers or repair garages

Applies to establishments engaged in servicing and repairing transportation, freight hauling, farm or construction equipment for others. Work contemplated by this classification includes, but is not limited to, all phases of mechanical service such as, but not limited to, engine overhauls and rebuilding, resurfacing heads, valve grinding, transmission overhauls or rebuilding, electrical repairs, brake service, engine tune ups, fuel injection service, carburetor repair, and engine diagnostic service when performed by employees of an employer subject to this classification. This classification includes service managers, parts department employees, lot personnel, towing service for in shop repairs, incidental sales of reconditioned equipment, and customer courtesy van or car drivers.

Special note: Establishments engaged in providing towing service for hire are to be reported separately in classification 1109. For purposes of this classification "towing for hire" means a towing service not performed in connection with repairs to be done by the repair shop.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58505, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58505, filed 5/31/96, effective 7/1/96.]

WAC 296-17-58506 Classification 3414.

3414-00 Boat dealers

Applies to establishments engaged in the sales, service, and/or repair of boats. Work contemplated by this classification includes, but is not limited to, mechanical and electrical system repairs, vinyl and glass repairs, engine rebuilding and reconditioning, detailing boats, reconditioning seat pads and other accessories, sales and installation of boat accessories, and sales of boat trailers, specialty apparel and fishing gear when performed by employees of an employer subject to this classification. This classification also includes parts department employees, sales employees who also assist in duties described in this classification, and lot personnel.

This classification excludes boat sales personnel who may be reported separately in classification 6301 provided all the conditions of the general reporting rule covering standard exception employees have been met; repairs done in connection with manufacturing operations which are to be reported separately as applicable; and establishments engaged in the repair of fiberglass or sheet metal boat bodies which are to be reported separately in classification 3412.

3414-01 Marinas and boat house operations: Boat storage facilities

Applies to establishments engaged in providing a variety of boat-related services and facilities, and to service or repair centers. Boat storage facilities may be located in waterways adjacent to the marina or on dry land and may be operated by a marina or by a separate business. Both types of storage facilities are included within the scope of this classification. Work contemplated by this classification includes, but is not limited to, fuel service, mechanical and electrical repair service, parts departments, boat storage, moorage, sales of fishing gear, wearing apparel, groceries and bait, boat rentals and sales, and boat launching facilities when performed by employees of an employer assigned to this classification. This classification also includes other incidental services and facilities such as, but not limited to, self-service laundry facilities, public showers, holding tank pump out stations, passenger car or truck parking, and dockside electricity.

This classification excludes repairs done in connection with manufacturing operations which are to be reported separately as applicable; establishments engaged in the repair of fiberglass or sheet metal boat bodies which are to be reported separately in classification 3412; seafood or fish processing facilities operated in connection with a marina operation which are to be reported separately in classification 3304; and boat sales personnel who may be reported separately in classification 6301 provided all the conditions of the general reporting rule covering standard exception employees have been met. Overnight lodging facilities and restaurant services provided to customers by a marina operator may be reported separately provided all the conditions of the general reporting rule covering a secondary business have been met.

Special note: Some marina operators will offer boating instructions and charter boat services. Care should be taken in this area as certain boating and charter fishing excursions are not covered by state workers' compensation coverage.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58506, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58506, filed 5/31/96, effective 7/1/96.]

WAC 296-17-58507 Classification 3415.

3415-00 Factory built housing dealers

Applies to establishments engaged in the sales and service of factory built housing units such as mobile/manufactured homes or modular homes. Work contemplated by this classification includes pick up of units from housing factory, set up of units at sales lot or customer locations, installation of skirting, aligning cabinets and doors, and touch up painting when performed by employees of an employer subject to this classification. This classification also includes parts department employees, sales employees who assist in duties described in this classification, and lot employees engaged in the maintenance of grounds or in the maintenance of factory built home units on display at the lot.

This classification excludes delivery of factory built home units and set up by contractor which is to be reported

separately in classification 0517; employees involved in work such as, but not limited to, concrete work, electrical, plumbing, landscaping, and fence construction who are to be reported separately in the construction classification applicable to the work they are performing; and modular or mobile home sales personnel who may be reported separately in classification 6301 provided all the conditions of the general reporting rule covering standard exception employees have been met.

Special note: Construction of separate out-buildings such as garages, carports, well houses and storage sheds which may be constructed in connection with a modular or mobile set up are excluded from this classification and are to be reported separately in the applicable construction classifications. Establishments engaged exclusively in the delivery of modular or mobile homes, but who are not involved in any aspect of the set-up of the structure, are to be reported separately in classification 1102.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-58507, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-58507, filed 5/31/96, effective 7/1/96.]

WAC 296-17-586 Classification 3501.

3501-00 Brick or clay products, N.O.C: Manufacturing

Applies to establishments engaged in the manufacture of brick or clay products not covered by another classification (N.O.C.), such as, but not limited to, drainage or roofing tiles, building or paving bricks, wall copings, glazed or unglazed sewer or drain pipes or conduits, or similar products which are generally for industrial or construction use. Clay, which is any earth that forms a paste when added to water and hardens when heated, is widely used in making bricks and other products as described above. Brick is a molded rectangular block of clay, baked by the sun or in a kiln until hard. Similar products made of earthenware, which is a variety of coarse, porous baked clay, are included in this classification. To make bricks, clay is broken up by dry-pan grinders. After grinding, the particles pass through any one of several types of screens used for separating and grading. The mixture is fed through a pug mill to be cut and mixed then mixed with water to the desired consistency. After tempering, the pug mill extrudes a column of clay through a die, which shapes and determines the dimensions of the brick. A rotating wire cutter slices the column into proper thicknesses. Bricks are either machine molded or hand molded. The "green" bricks must be dried by sun and air, or in natural gas or electric-fired regulated kilns prior to firing. Firing dehydrates, oxidizes, and vitrifies the bricks. To make other products, clay is mixed with sand or shale, ground in a mixing machine and water is added. The liquid substance is mechanically poured into standard or specially shaped molds. All products are dried by natural warm air or steam heat. After removal from the molds, products are baked in kilns. If glazing is desired, salt is added to the kiln; the salt vaporizes and coats the products. To produce a greater degree of concentration, pressing or repressing operations may be performed, usually with hydraulic presses, subsequent to the actual formation of the products.

This classification excludes the production of raw materials which is to be reported separately in the applicable mining, quarrying or excavation classification; installation or erection of any products manufactured by establishments in this classification which is to be reported separately in the classification applicable to the type of construction or installation work being performed; the manufacture of household or decorative pottery items, including tile, which is to be reported separately in classification 3503; and the manufacture of statuary and ornamental items from concrete or plaster which is to be reported separately in classification 3509.

Special note: Clays are generally mined by the open-pit method. After clay has been extracted, it may be stockpiled inside for use during inclement weather. In most cases, the manufacturing of brick takes place alongside the extraction site. Clay is delivered to the manufacturing site only when clay of a different characteristic is needed to blend with the "home" clay.

3501-01 Refractory products: Manufacturing

Applies to establishments engaged in the manufacture of refractory products such as, but not limited to, fireproofing tile or bricks, roofing tile, flue lining, boiler or stoker tiles, enameled bricks, retorts, kiln parts, or crucibles from refractory clays with or without other refractory materials. Refractory clays are resistant to heat. Refractory materials, such as alumina, silica, and magnesite, dolomite, bauxite, do not significantly deform or change chemically in high temperatures. Usually all types of refractory products are produced in the same plant. Clay and other materials are ground, screened and mixed with water in a mixing machine. The partly fluid substance is poured into molds to form the product. After removal of the forms, items are kiln dried. The enamels are vitreous coatings produced from solutions of chemicals, salt, lead oxide or tin, into which the brick is dipped. Enameled brick requires two or three kiln burns.

This classification excludes the production of raw materials which is to be reported separately in the applicable mining, quarrying or excavation classification; installation or erection of any products manufactured by establishments in this classification which is to be reported separately in the classification applicable to the type of construction or installation work being performed; the manufacture of household or decorative pottery items, including tile, which is to be reported separately in classification 3503; and manufacture of statuary and ornamental items from plaster or concrete which is to be reported separately in classification 3509.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-586, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-586, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-586, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-586, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-586, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-586, filed 11/9/73, effective 1/1/74.]

WAC 296-17-587 Classification 3503.

3503-17 Pottery, earthenware, ceramics, porcelain or china: Manufacturing

Applies to establishments engaged in the manufacture of a wide variety of household or decorative items such as earthenware, pottery, ceramics, porcelain or china. Casting and throwing are the most common techniques. Other techniques include pressing, extrusion and sculpturing. Finished products include, but are not limited to, pots, bowls, dishes, plates, cups, cookie jars, vases, dolls, tobacco pipes, and novelty

items. Materials include clay, sand, fluxing agents, paints, and glazing compounds. Machinery includes, but is not limited to, hand tools, potter's wheels, kilns, and plaster molds. In the casting method, clay is mixed with water and other additives until it is about the consistency of thick cream (called slip). The molds are closed shut and secured; then the slip is poured into them through a small hole at the top, and left in the mold to dry for a short time then poured out, leaving a hollow product to fire. In the throwing method, the clay mixture is placed on a potter's wheel and molded by hand as the wheel slowly turns. The pressing technique forces relatively dry clay into molds under substantial hydraulic pressure, which makes it hold its shape until fired. Extrusion forces a ribbon of clay through specially shaped dies, then it is cut with wire to create the final form. Sculpturing is hand carving wet clay to the desired dimensions. The resulting greenware from any method may be sanded, then further dried and fired in a small kiln. Most of the items will be glazed and refired several more times, depending on the desired end result. Prior to glazing, products may be decorated by hand painting designs on them. Most of the establishments in this classification are small shops that make the products they sell, either at their shop or occasionally at craft fairs. The teaching of classes and the incidental sale of ceramic and pottery making supplies or tools to home crafters is included within the scope of classification 3503-17. This classification includes establishments that only make molds by casting shapes in plaster, most of which they sell to ceramic shops for use in casting greenware.

This classification excludes the mining, digging or quarrying of raw materials which is to be reported separately in the applicable classification; manufacture of decorative tile which is to be reported separately in classification 3503-19; manufacture of brick or concrete products such as, but not limited to, brick or clay pipe and concrete tile which is to be reported separately in the classification applicable to the work being performed; and establishments whose primary business is the sale of supplies used for crafts or hobbies which are to be reported separately in classification 6309.

Special note: Care must be taken when considering classifications 6309 or 3503. Classification 6309 is to be assigned to establishments whose primary business is the sale of supplies such as, but not limited to, ceramic and pottery making materials or tools. Classification 6309 does not cover the manufacture, fabrication or assembly of craft or hobby items for sale, but includes the teaching of classes and the assembly of an individual piece or two for display.

3503-19 Decorative tile: Manufacturing

Applies to establishments engaged in the manufacture of decorative tile from cement or various clay mixtures. Raw materials include clay, sawdust, straw, coal dust, sand, and glazing compounds. Machinery includes, but is not limited to, hand tools, hydraulic presses, automatic grinding and polishing machines, hand grinding and polishing stones and laps, batch mixers, molds, hand trucks, kiln ovens and steam curing rooms. Cement tiles are usually pressed on hydraulic presses, kept wet until cured, then ground to size with a diamond wheel and polished. To make cast clay tiles, clay is mixed with water and other ingredients, ground to desired fineness, screened, then poured into molds to dry. After drying, tiles are removed from molds and fired in a kiln oven, then glazed. Tile glaziers apply designs to bisque tile by hand or with a silk screen process, then glaze and fire it in a kiln one or more times. This classification includes the manufacture of decorative artificial rock or brick used as trimming around fireplaces, stoves, or on walls. To make artificial rock or brick, coloring is added to a mixture of cement and aggregate; the mixture is poured into molds. After the mixture has set, the piece is removed from the mold and cured.

This classification excludes the mining, digging or quarrying of the raw materials which is to be reported separately in the applicable classification; the manufacture of pottery, earthenware, ceramics, porcelain or china which is to be reported separately in classification 3503-17; and the manufacture of brick or concrete products such as brick or clay pipe and concrete blocks or stepping stones, drain tile, beams which is to be reported separately in the classification applicable to the work being performed.

3503-20 Stained or leaded glassware, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of stained or leaded glassware not covered by another classification (N.O.C.) including, but not limited to, windows, tiffany style or plain glass lamp shades, terrariums, or decorative items such as aquariums, shadow boxes, mirror picture frames or figurines. Much artistic hand labor is involved in making stained glass items. Pattern paper, masking tape, kerosene, wire solder, putty, and H-lead cames (slender, grooved bars) are received from others. Individual pieces of a design are cut to pattern out of stained glass; pieces may be ground for a precision fit on an emery or diamond wheel. Individual segments are pressed into the channels of the lead came; joints are fluxed, soldered and putty is pushed into any open spaces between the glass and the cames. The finished piece is smoothed and cleaned with kerosene. While lead cames are more widely used, copper foil may be used instead of lead. Manufacturers may also paint on glass and fire it in a kiln; this is most often done for stained glass window insets. Employers subject to this classification may repair items such as stained glass windows. If the repair requires bent or shaped glass, they make a mold and heat the replacement glass in a kiln oven until it "slumps" or bends to the shape of the mold. Most manufacturers in this state purchase their stained glass from others; however, the manufacture of stained glass is contemplated within the scope of this classification. Raw materials such as, but not limited to, sand, soda ash, and metal oxides are melted in a furnace and the molten glass is either rolled into sheets by machine or blown into long balloon shapes that are slit open and flattened by reheating. Color may be added to the surface while it is still molten. Some incidental manufacturing of insulated glass, such as sandwiching leaded glass between two sheets of clear glass, is included within the scope of this classification, but production line manufacturing of insulated glass is to be reported separately in classification 1108. Most of the establishments in this classification are small shops that make the products they sell, either at their shop or occasionally at craft fairs. The teaching of classes and the incidental sale of supplies or tools used to make glassware items to home crafters is included within the scope of this classification.

This classification excludes the mining, digging or quarrying of raw materials which is to be reported separately in the applicable classification; establishments that manufacture optical goods or telescopes, or perform precision grinding of blank or rough lenses, which are to be reported separately in classification 6604; establishments engaged in etching, frosting, sandblasting, carving, grinding, and beveling glass which are to be reported separately in classification 1108; establishments engaged in melting or blowing glass which are to be reported separately in classification 3503-21; and establishments whose primary business is the sale of supplies used for crafts or hobbies which are to be reported separately in classification 6309.

Special note: Care must be taken when considering classifications 6309 or 3503. Classification 6309 is to be assigned to establishments whose primary business is the sale of supplies such as, but not limited to, materials or tools used to make glassware items. Classification 6309 does not cover the manufacture, fabrication or assembly of craft or hobby items for sale, but includes teaching of classes and the assembly of an individual piece or two for display.

3503-21 Glassware, N.O.C.: Manufacturing; Melting, blowing, and forming hot glass

Applies to establishments engaged in manufacturing housewares, decorative and specialty items not covered by another classification (N.O.C.) from hot glass using methods that include melting, blowing, or forming. Items include, but are not limited to, tableware, bakeware, perfume bottles, candlestick holders, kerosene lamp chimneys, auto headlight lenses, radio insulators, doorknobs, paperweights, and ashtrays. Machinery includes, but is not limited to, hand tools, glass melting furnaces, annealing ovens, mixing machines, ball mills, glass cutting diamond saws, glass grinding wheels and discs, glass polishing laps, drill presses, steel cutting saws, arc and gas welders, forklifts, overhead cranes or hoists. Some shops make their glass from raw materials including oxides, volcanic ash, soda ash, silica sand, lime, phosphate, or borax which are received from outside sources. Others will heat glass chips (frit) in a furnace, and work the molten glass into decorative or functional shapes by molding or blowing. The molten glass is poured into molds to make products such as, but not limited to, heavy glass for special purpose windows up to about eight inches thick. Molten glass may also be poured into cold water to make "frit" which is either sold or used for further processing. The molten glass can also be formed in a mouth-blowing process or by semiautomatic blowing machines. A glass blowing process will usually have a helper working with each glass blower. The helper's duties include preliminary glass gathering and blowing, adding colored glass "ribbons" to the item being blown as the glassblower turns it, shaping items being blown with wooden or metal tools, and placing the blown object in an annealing oven to be reheated and cooled slowly to relieve internal stress in the glass. When glass reaches room temperature, it is often cut on diamond wheels or ground down and polished on a series of wheels, stones, and laps. This work is normally done under a continuous water bath which may include grinding or polishing compounds.

This classification excludes the mining, digging or quarrying of raw materials which is to be reported separately in the applicable classification; establishments engaged in manufacturing stained or leaded glassware which are to be reported separately in classification 3503-20; establishments that manufacture optical goods or telescopes, or perform precision grinding of blank or rough lenses, which are to be reported separately in classification 6604; and establishments engaged in etching, frosting, sandblasting, carving, grinding, and beveling glass which are to be reported separately in classification 1108.

3503-23 Agate or enamel ware: Manufacturing

Applies to establishments engaged in enameling or porcelainizing products they have made or products made by others. Enamel is defined as a vitreous, usually opaque, protective or decorative coating baked on metal. Enameled products vary widely, including but not limited to, signs, cookware, items made from ceramics or clay, stove parts, or small parts for automobiles, to sewer pipe, automobile manifolds, or irrigation water gauges. Machinery includes, but is not limited to, ball mills, silk screen equipment, blenders or mixers, scales, kilns, degreasing and acid etching tanks, spray guns, heaters, conveyors, and fork lifts. The enameling process is essentially the same regardless of the product. Ceramic balls and frit (small glass chips) are placed in the ball mill. (A ball mill is a metal drum lined with rubber.) As the drum rotates, the balls roll over the frit, gradually grinding it into powder. Some enameling shops purchase the powder ready-made. To obtain desired colors, various mixes of glaze powders are prepared and placed on 1" to 2" square metal chips and baked in a small kiln. When the formulas are ready for all colors required, the job goes to the production line. The object to be glazed is cleaned, degreased, and given an acid bath if necessary, then rinsed and dried. The enamel (or porcelain) glaze may be applied by hand, silk screened on, or sprayed on with a spray gun. After the coating has air-dried, the piece heated in a kiln to melt the ceramic powder and fuse it to the surface; then cooled. Items may require repeated coatings and firings.

This classification excludes the manufacture of enameled brick which is to be reported separately in classification 3501.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-587, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-587, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-587, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-587, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-587, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-587, filed 11/9/73, effective 1/1/74.]

WAC 296-17-590 Classification 3506.

3506-02 Mobile crane and hoisting services; Rigging contractors, N.O.C.

Applies to establishments engaged in mobile crane and hoisting services and rigging contractors not covered by another classification (N.O.C.). There are many types of cranes and derricks, both stationary and nonstationary. A mobile crane is a tire-mounted machine for hoisting and moving heavy objects by cables attached to a moveable boom. Rigging consists of a system of ropes, chains, cables, or tackle used for support. Generally, these types of establish-

ments respond to and service customer requests such as righting an overturned tractor trailer, hoisting a large bell, or placement of a satellite dish on top of a building. In addition, mobile crane businesses often maintain a variety of nonmobile cranes and derricks such as those used for construction of tall buildings or structures. This classification includes transporting of a nonmobile crane or derrick to and from a customer site, but excludes the set up or erection, operating, and disassembling of the unit.

This classification excludes the construction or erection of permanent nonmobile cranes (such as those permanently mounted at a manufacturing plant or seaport to load cargo) which are to be reported separately in classification 0508; and the set up, erection, operating, and disassembling of cranes, hoisting devices or rigging in connection with work covered under a construction classification which are to be reported separately in the construction classification applicable for the work being performed.

Special note: This classification includes mobile crane and hoisting businesses when providing a service at a construction site such as lifting an air conditioning unit to a building top, and provided the crane operator is an employee of the crane and hoisting business.

3506-03 Concrete pump truck service

Applies to establishments engaged in concrete pump truck services, including the pump truck control box operator. A concrete pump truck is a large vehicle equipped with an adjustable boom spanning approximately 65' in length equipped with a flexible 4" hose running alongside the boom. This type of vehicle is different from a concrete ready mix truck which mixes the concrete in a rotating or revolving drum prior to arriving at the project site and discharges the mix with use of a metal shoot. A concrete pump truck is designed to pump concrete into areas which are difficult for a concrete ready mix truck to reach such as a tall retaining wall, the foundation of a building or structure many feet below ground level, or into an area with limited access. Concrete is fed into the bed of the pump truck (usually by a ready mix concrete truck). The driver of the pump truck also operates the control box which adjusts the boom and amount of concrete mix to discharge. The control box operator receives instructions from a construction worker overseeing the concrete pour.

This classification excludes ready mix concrete dealers who deliver concrete who are to be reported separately in classification 3101 and all other concrete construction activities occurring at the project site which are to be reported separately in the classification applicable to the construction work being performed.

Special note: This classification is limited to the concrete pump truck driver and operation of the control box. Construction workers at the project site, such as workers who are positioning and repositioning the end of the boom which discharges concrete, or workers who provide instructions with use of a headset to the control box operator, or workers who are spreading the concrete as it is poured, are to be reported separately in the classification applicable to the construction work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-590, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-590, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-590, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-590, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-590, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-590, filed 11/9/73, effective 1/1/74.]

WAC 296-17-59201 Classification 3509.

3509-01 Statuary and ornament: Manufacturing

Applies to establishments engaged in the manufacture of decorative statuary, and other ornamental items including, but not limited to, planters and fountains, lawn and garden furniture, patio blocks and stepping stones, grills, and cornices. Materials such as, but not limited to, plaster, concrete, hair, wood fiber, powdered lime, sand, gravel, cinders, aggregates, mesh wire and reinforcing rods, and certain plastics are received from outside sources. Depending on the item being made, various ingredients are mixed together and cast in metal or rubber molds or in forming machines. After being removed from the molds or forms, they are dried and stored until cured. After curing, items may be sanded and smoothed with grinders, or carved by hand; some may be painted or coated with a clear finish, or designs hand painted on. Such finishing work is included within the scope of the classification when performed by employees of employers subject to this classification.

This classification excludes the mining, digging, quarrying, or manufacturing of raw materials which are to be reported separately in the applicable classification; the manufacture of decorative tile which is to be reported separately in classification 3503; and the manufacture of concrete blocks, bricks, poles, piles, tile, beams, sewer and irrigation pipe, and septic tanks which is to be reported separately in classification 3105.

Special note: This classification differs from classification 3105 "concrete blocks, sewer pipes" in that products manufactured in classification 3509 are for decorative purposes, are usually lighter weight, and have smoother or more perfect finishes than the concrete products manufactured in classification 3105 which are rough, do not require perfect finishes, and are generally for construction use.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-59201, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-59201, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-59201, filed 12/1/89, effective 1/1/90.]

WAC 296-17-59202 Classification 3510.

3510-02 Plastics: Artificial marble manufacturing

Applies to establishments engaged in the manufacture of plastic articles by molding a calcium carbonate material mixed with feed stock, a catalyst and dyes which are purchased from outside sources. When this material solidifies it resembles marble, and is used to make counter tops, sinks, novelty items such as, but not limited to, soap dishes, clock cases, and statues. Raw materials are mixed in large mixers until it has the consistency of bread dough. A release agent is sprayed onto empty molds so the finished items can be easily removed after they are set; then the mixture is poured directly into molds, placed into molds by hand, or forced into molds under pressure. The materials are cured at room temperature or with moderate heat (up to 140 degrees F). When the mate-

rial has hardened, items are removed from the molds and trimmed, sanded or otherwise finished. Sanding may be done with power rotary sanders which create clouds of dust and require the use of respirators.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which are to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and the manufacture of fiberglass goods which are to be reported separately in classification 3511.

3510-03 Plastics: Extrusion, blow molding

Applies to establishments engaged in the manufacture of plastic articles by blow molding or extruding. Processes vary, but all usually require the heating and melting of feed stock and mixing of other additives purchased from outside sources. Extrusion involves forcing material through dies; blow molding blows a bubble of plastic into the air and processes it through machinery, or forms an object in a mold by blowing air and material into it. Plastic items such as containers for milk, motor oil, bleach, or other liquids are typically made with a blow molding process, which is a fast, high volume operation. A bubble of molten plastic is blown into a mold and expanded to the shape of the mold with compressed air. The mold is kept cool with a liquid coolant that circulates through its cavities; when hot plastic is pressed against the mold, it cools and hardens in seconds. Sheets of plastic film are usually made by extruding a tube of hot plastic, expanding it with air pressure, then passing it through a series of rollers and cutters which roll it flat and cut it into two separate sheets. Plastic film is used for making plastic bags and other products. This classification includes the manufacture of plastic bags when the extrusion of plastic sheets is performed by employees of the plastic bag manufacturer. Other extrusion processes are used in the manufacture of window frame molding, gutters, pipe, and similar items.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which are to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and the manufacture fiberglass goods which are to be reported separately in classification 3511.

3510-04 Plastics: Vacuum forming

Applies to establishments engaged in the manufacture of plastic goods through a vacuum forming process. Articles manufactured by this method include, but are not limited to, signs, display stands, windshields for boats and motorcycles, boat paddles, skylight windows, trays for packaging food or other items. Sheet goods are heated in an oven or in the molding area, and a vacuum is pulled on the mold, sucking the plastic in to conform to the shape of the mold. Items produced by this method harden and cool in a few minutes. In other techniques, liquid plastic is poured into a mold, a seal of mylar plastic is placed over it, then a vacuum is pulled on the mold forming the liquid to the mold. This method produces a smooth, glossy surface similar to those produced by injection molding, but without the high-cost machinery. For either method, once the plastic material hardens, the "flashing" (excess plastic) is trimmed from the formed article. This is called "deflashing" and may be done with a hand-held knife, a router, or a lathe. There is some assembly in certain manufacturing operations such as attaching components with screws, rivets, bolts, or glue, which is incidental to the manufacturing process and is included in the classification.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which are to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and establishments engaged in the manufacture of fiberglass goods which are to be reported separately in classification 3511.

Special Note: The painting or lettering of signs is included in the plastic goods manufacturing classification when done by employees of an employer making signs. Establishments that purchase premanufactured plastic "mediums" from others, then paint lettering or designs or attach vinyl lettering to them in their own shops are to be reported separately in classification 4109.

3510-05 Plastics: Foam molding, rotary molding, liquid molding

Applies to establishments engaged in the manufacture of plastic goods through foam molding, rotary molding or liquid molding processes. Raw materials, which may be received in barrels, drums, or rail cars, include, but are not limited to, small plastic beads, powder, pellets or liquids, and foaming agents. Establishments in this classification will frequently employ laboratory employees such as chemists or chemical engineers to formulate their own plastic compounds to meet specifications as to rigidity, flexibility, or fire retardation. Liquid polymer is mixed with one or more ingredients, in some cases including a foaming agent, then heated to control the foaming action. It may be forced through pipes or hoses from a dispensing machine into the mold, or workers may carry it in buckets from the mixing pot and pour it into the molds. The top of the mold is put in place and secured. Heat and air pressure is applied inside the mold, which causes the foam to rise and form the shape of the object being made. Workers may wear respirator masks during this phase. The mold may be lined with vinyl or other fabric, or wire frames may be placed inside the molds when making items such as armrests, cushions, dashboards for vehicles, boats, or aircraft. Goods usually set overnight, then the flashing (excess plastic) is trimmed off. Liquid plastic, such as urethane, without a foaming agent, is also used to make products that are extremely tough. Products made from this type of liquid mixture include, but are not limited to, parts for aircraft or industrial machinery. Liquid mixtures are poured into molds and cured in ovens. Styrofoam products such as, but not limited to cups or plates, packaging materials are made from small styrofoam beads that are expanded by heating, then forced or blown into a mold and heat-expanded to form the product. Logos or brand names may be printed onto the products with a special offset press. Rotary molding is used for large hollow items like garbage cans or buckets. Plastic powder, mixed with color, is poured into molds; molds are closed and moved

on a rotating arm through a large oven in a tumbling action while the mold heats. The plastic powder sticks to the inside of the mold and melts. The mold is removed from the oven while still tumbling, and air and/or water cooled. Finished products are then removed from the molds.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which is to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and the manufacture of fiberglass goods which are to be reported separately in classification 3511.

3510-06 Plastics: Injection molding

Applies to establishments engaged in the manufacture of plastic goods through an injection molding process. Articles made by injection molding range widely; they include, but are not limited to, key chain holders, writing pens, combs, medicine bottles, novelty items, sporting goods, and cargo baskets for industrial use. The size of injection molding machines ranges widely, depending on the products being made. Raw materials, which are usually in the form of tiny plastic beads, are received from outside sources in barrels, drums or rail cars. The pellets are placed in a dryer to remove any moisture, then fed through a hopper on the injection molding machine into an air-free chamber where they are melted at high temperatures, then forced with an auger-type screw, ram piston or similar device, into the mold. The mold is cooled by a coolant to allow the plastic to solidify rapidly. When solidified, the item is ejected from the mold by air pressure, hydraulics, or a mechanical ram. Items may be trimmed, polished, assembled, plated, or otherwise finished. Establishments in this classification may make molds for their own use, or the customer brings molds for specific items they order. The manufacture or repair of their own or their customer's molds is included within the scope of this classification when done by employees of an employer subject to this classification.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which are to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and the manufacture of fiberglass goods which are to be reported separately in classification 3511.

3510-07 Plastics: Manufacture, N.O.C.

Applies to establishments engaged in the manufacture of plastic goods not covered by another classification (N.O.C.) using several of the operations described in the other plastics manufacturing classifications, but not having one predominate process. This classification *could* include the application of fiberglass resins with a brushing or spreading technique (sometimes referred to as "lay-up"). In the lay-up method, fabric is fitted over molds, then layers of fiberglass resins, hardeners, and fillers are applied over the fabric with a brush or trowel. In some applications, a thin foam material is fitted into a mold, then covered with fiberglass resins and hardeners; when the product is removed from the mold, the other side is coated, producing an exceptionally strong, lightweight product. Once removed from the molds, items are heated in ovens to harden and set. This classification also includes establishments that make pellets (feed stock) from recyclable plastic goods. Scraps or recyclable goods are ground or pulverized, then formed into pellets which can be used again in manufacturing processes, or further processed into oil by other manufacturers.

This classification excludes establishments engaged in the manufacture of a plastic product by any other method which are to be reported separately in the appropriate classification; establishments engaged in the manufacture of graphite composite goods which are to be reported separately in classification 3510-08; and establishments engaged in the manufacture of fiberglass goods which are to be reported separately in classification 3511.

Special notes: When the manufacture of plastic goods includes *any* fiberglass work using the spraying technique with a chopper gun, the entire operation is to be reported separately in classification 3511. Incidental hand brushing or troweling of fiberglass resins or epoxy over a fabric or foam material, is sometimes an integral part of manufacturing processes covered under other manufacturing classifications. A review of the manufacturing process must be made to determine the proper classification applicable to that manufacturing process.

3510-08 Graphite composite goods: Manufacturing

Applies to establishments engaged in the manufacture of fiber reinforced plastic goods. Products manufactured by establishments subject to this classification include, but are not limited to, golf club shafts, fishing poles and rod blanks, garden carts, hose reels, wind board sail masts, bicycle frames, tennis racquets, snow skis and auto parts. While the classification specifies graphite composite goods, other fiber reinforced plastics are used to make similar products and are covered by this classification. Graphite composites are also known as carbon reinforced composites. Irrespective of the product made, the processes used to produce the end products are similar. For example, the making of tube-like products such as, but not limited to, golf shafts, wind board sail masts, and fishing poles, consists of cutting a fabric-like material which is purchased from others to the specified dimension needed to make the product; rolling the material onto a mandrel (rod) or wrapping the material around a mold; securing the fabric material with a plastic (cellophane) tape; curing the product in an oven; removing the cellophane wrap; removing the mandrel or mold; sanding the product to remove the lines left by the cello wrap; and applying the finish.

This classification excludes the manufacture of nonfiber reinforced plastic goods or products which are to be reported separately in classification 3510 as applicable; fiberglass reinforced goods or products which are to be reported separately in classification 3511; and plastic goods manufacturing from premanufactured components including the cutting, bending and milling of plastic which are to be reported separately in classification 3512.

Special note: Care should be taken when encountering the term "graphite composite." Graphite is a material common to many products such as, but not limited to, lead pen-

cils, paints, lubricants and protective coatings, none of which are covered by classification 3510.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-59202, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-59202, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-59202, filed 5/31/91, effective 7/1/91; 90-13-018, § 296-17-59202, filed 6/8/90, effective 7/9/90.]

WAC 296-17-59203 Classification 3511.

3511-02 Fiberglass goods: Manufacturing, N.O.C.

Applies to establishments engaged in the manufacture of a wide variety of fiberglass goods not covered by another classification (N.O.C.) including, but not limited to, hot tubs, swimming or wading pools, boat hulls, chair frames, doors, fish tanks, satellite dishes, tanks, display carts, signs, industrial equipment, pick up canopies, and auto body parts such as fenders, hoods, or visors. "Fiberglass" is a composite material consisting of glass fibers in resin; it is applied over or into molds by spraying, brushing, or spreading. Materials include, but are not limited to, resin (usually received in barrels), liquid hardeners, fiberglass ribbon, and molds. Before a mold is used it is sprayed with a release agent so the item is more easily removed. In the spraying technique, resin is sprayed with compressed air gun through a "chopper gun" into the mold, while a "ribbon" of fiberglass is simultaneously fed through a razor cutter which chops it into short lengths and blows it into the mold. Because the hardeners cause the material to "set" in a short period of time, the spraying is done rapidly. Once the desired thickness is attained, the material is left in the mold until completely set and cured, then removed. Spraying and chopping the fiberglass in this method causes a substantial amount of debris in the air, so workers usually wear respirator masks. There are many finishing techniques, such as smoothing the sprayed fiberglass with a hand-held rubber roller, applying various materials such as "gel" or "vinyl" to produce a glossy surface, joining parts to make very large items, attaching hardware, all of which are included within the scope of this classification when done by employees of an employer having operations subject to this classification.

This classification excludes establishments engaged in the manufacture of plastic items by blow molding or extrusion, vacuum forming, foam, rotary, or liquid molding, or injection molding, and establishments engaged in the manufacture of artificial marble items or graphite composite goods, which are to be reported separately in classification 3510; establishments engaged in the cutting, milling, bending, heating and shaping of hard plastic goods which are to be reported separately in classification 3512; and establishments engaged in the manufacture of auto body parts from materials other than fiberglass which are to be reported separately in the classification applicable to the materials and the processes being used.

Special note: Mold making for their own production is included within the scope of this classification when done by employees of an employer subject to this classification. Molds are usually made of wood; they are smoothed and shaped with a filler, like auto body putty, then coated with fiberglass.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-59203, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-59203, filed 5/31/91, effective 7/1/91.]

WAC 296-17-59204 Classification 3512.

3512-02 Plastic goods: Manufacturing - cutting, milling or bending

Applies to establishments engaged in the manufacture of a variety of plastic goods from premanufactured components such as sheets, rods, or tubes by cutting, milling, or bending. Products include, but are not limited to, display stands, racks, dispensers for snack food items, vinyl window sashes, fiberglass panels used for aircraft or recreational vehicle interiors, and signs. Essentially anything that can be done with wood can be done with plastic, so shops in this classification usually resemble a cabinet or woodworking shop. They use the same type of tools such as, but not limited to, saws, routers, planers, and grinders, to cut or mill the plastic goods. To bend plastic material, it is first heated in an oven or with a torch, then bent to shape. Buffers are used for polishing, or the pieces may be flame polished (heated with a gas torch). Products may be formed by joining pieces with glue, hardware or other fasteners.

This classification excludes establishments engaged in the manufacture of plastic items by blow molding, extrusion, vacuum forming, foam, rotary, or liquid molding, or injection molding, and establishments engaged in the manufacture of artificial marble items or graphite composite goods, which are to be reported separately in classification 3510; establishments engaged in the manufacture of fiberglass goods which are to be reported separately in classification 3511; and sign manufacturers that purchase precut plastic backings from others, then paint lettering or designs or attach vinyl lettering to them in their own shops which are to be reported separately in classification 4109.

Special note: The cutting, milling, or bending of plastic goods incidental to the manufacturing process for products made from wood, metal or other materials is included in the classification applicable to those manufacturing processes.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-59204, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-59204, filed 5/31/91, effective 7/1/91.]

WAC 296-17-59205 Classification 3513.

3513-00 Rubber goods, N.O.C.: Manufacturing

Applies to establishments engaged in manufacturing rubber goods not covered by another classification (N.O.C.) from natural or synthetic rubber which may be hard, soft, or liquid. Products manufactured in this classification include a wide variety of items such as, but not limited to, gaskets, seals, floor tiles, O-rings, hoses, belts, rubber bands, foam rubber cushions or pads, sponge rubber novelties, shoe parts, floor mats, interior pieces for computer circuit boards, and latex rubber goods such as gloves. Establishments in this classification also mix and compound rubber for sale to tire dealers that recap or retread tires. This classification includes establishments that manufacture rubber tires, or that shred used tires or other rubber products. Used rubber is run through granulators or rotary shearers that shred it to small pieces. Shredded material can be used as filler for asphalt for

running tracks, or mixed with coal for fuel in industrial plants or further processed into oil. This classification also includes establishments that use heavy machinery to cut used tires into large pieces which are then formed into bumpers for boats, loading docks or similar items. Manufacturing processes include washing, mixing, rolling, extruding, calendaring, molding, and curing, all of which cause chemical reactions to the rubber until it reaches the desired "property or state". Vulcanization, which improves the strength, resiliency and odor of rubber by combining it with sulfur or other additives in the presence of heat and pressure, occurs in various stages of manufacturing processes. Machinery includes but is not limited to: *Shearer:* Cuts bulk rubber into strips or chunks. *Extruder:* Mixes and heats pieces of rubber to high temperature, then forces the mixture out through dies, forming it into "ropes." (O-rings are made with extruded ropes.) *Rubber mill:* Has two heavy rollers (each about 1 foot diameter) that spin towards each other; the friction of the spinning rollers causes heat. Strips of raw rubber and dry chemicals are fed into the rollers where they are mashed and pressed, forming it into different grades or densities. The rubber emerges from the mill in flat, pliable strips, ready for further treatments. *Calendar:* Passes rubber through more rollers which work it to a smooth, even, glossy finish. *Hydraulic steam press:* There are several types of molding which involve placing strips of the rubber after it has been milled and rolled into cast iron molds. The molds are inserted into a press where heat and pressure are applied until the rubber is molded to desired shape, then removed and cooled. *Injection mold press:* Rubber is shot into the cavity of the molds, and the press heats it to an almost liquid form, then it becomes stable. A vacuum pump sucks air from the molds to form the product. *Deflasher machine:* Resembles a clothes dryer with a basket inside; used to remove flashing (the excess rubber that has squeezed out of the mold during forming). Molded items are placed in the basket; nylon pellets are added to the machine. As the machine spins, the pellets beat the flashing from the molded pieces. Flashing is sometimes trimmed by hand with exacto knives or smoothed on grinders. *Curing oven:* The final step for most processes which dries and sets the rubber. Establishments subject to this classification may also make some products by cutting and gluing premanufactured materials. If any rubber molding is performed, the entire operation is to be covered under this classification.

This classification excludes establishments engaged in the manufacture of rubber goods by cutting and gluing premanufactured rubber or composite sheets *(no molding)* which are to be reported separately in classification 3802; tire dump operations which are to be reported separately in classification 4305; and the manufacture of synthetic rubber and the "advanced recycling" of shredded tires or rubber which is to be reported separately in classification 3407.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-59205, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-59205, filed 5/31/96, effective 7/1/96.]

WAC 296-17-594 Classification 3602.

3602-01 Telegraph or radio component, telephone set: Manufacture, assembly, or repair

Applies to establishments engaged in the manufacture, assembly, or repair of components related to the telegraph, radio or telephone industry. Component parts may be for items such as, but not limited to, radio or television sets, hearing aids, transformers, coils, condensers, switches, antennae, phones, speaker units, dials, rheostats, plugs, arrestors, resistors, and electrical control relays, or other parts necessary to accomplish radio, telegraph or telephone communication. Materials include, but are not limited to, metal, plastic, and wood used for the outside casings, and component parts. Some establishments in this classification manufacture the casings and the internal components. Other establishments in this classification assemble the ready-made parts with air and hand tools such as, but not limited to, drill presses, solder guns, or saws. Internal parts are usually assembled simply by clamping circuit boards in place, then soldering small pieces together. This classification includes engineers, research and laboratory personnel employed by establishments having operations subject to this classification. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification; and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-02 Instrument - scientific, medical, or professional: Manufacturing; magnetic tape: Manufacturing

Applies to establishments engaged in the manufacture of instruments used in medical, scientific, or professional applications. This classification also applies to establishments engaged in the manufacture of magnetic tapes. Instruments in this classification range widely in shape and size; they include, but are not limited to, dental or surgical instruments, microscopes or other scientific testing or research instruments, surveyors' instruments, and electrical testing instruments. Materials include, but are not limited to, metal, glass, plastic, or wood for casings, and component parts. Processes vary depending upon the product being produced, and could involve some stamping, machining, and heat-treating. However, component parts are usually manufactured by others, and establishments in this classification perform a substantial amount of hand assembling, inspecting, testing, and packaging operations. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-03 Sound recording equipment: Manufacturing

Applies to establishments engaged in the manufacture of sound recording equipment. Establishments in this classification may manufacture all or some equipment such as instruments for measuring sounds, and generators (for producing sounds), filters or modulators (for processing sounds), mag-

netic or tape recorders (for storing sounds), and speakers (for reproducing sounds). Materials include, but are not limited to, metal, glass, plastic, or wood for casings, clamps, glue or epoxy, and component parts. Components may be produced by the manufacturer or purchased from others and assembled. The assembly may be partially or wholly automated. Machinery includes, but is not limited to, shears, drill presses, grinders, soldering guns, welding equipment, and air or hand tools. There may be inspection areas and sound testing rooms. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-04 Thermometer and steam gauge: Manufacturing

Applies to establishments engaged in the manufacture of thermometers and/or steam gauges. The most common type of thermometer is a mercury thermometer which consists of a capillary tube that is sealed at its upper end and is enlarged into a spherical or cylindrical bulb at its lower end. This bulb is filled with mercury and mounted on a thin metal or plastic sheet. The manufacturers of steam gauges may simply assemble component parts with hand tools, test, and package them. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-05 Dental laboratories

Applies to establishments engaged in the manufacture of dentures, artificial teeth, braces, and retainers. These types of establishments are generally referred to as dental laboratories. The manufacture of these items involves precision work with castings, plastic or vinyl molding, and light wire forming. In the state of Washington dental laboratories can fit patients for dentures, in addition to making the denture which is included when performed by employees of employers subject to this classification. This is a shop only classification. Repair work when specified is limited to work performed at the shop.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-06 Jewelry: Manufacturing or engraving; trophy assembly or engraving

Applies to establishments engaged in the manufacture or engraving of jewelry, such as, but not limited to, rings, bracelets, necklaces, earrings, watchbands, pins, broaches, and cigarette lighters. Jewelry manufacturing or engraving involves working with precious metal and/or stones. Operations usually include polishing, buffing, drilling, and assembly, mixing and melting alloys and metals, then pouring the mixture into small casts. This classification also applies to establishments engaged in assembling or engraving trophies on a production basis. For purposes of this classification, assembly means making trophies from premanufactured components purchased from others. The engraving may be done by "etching" or by computer. In the etching method, patterns or lettering is cut into a metal strip that is coated with a solution resistant to etching acids. The metal strip is treated with etching acids that "melt away" the uncoated portion of metal, leaving an impression of the design. Computerized engraving is done by keying the designs or letters into the computer; the designs are transmitted to an "arm" on the computer which "draws" (engraves) them onto the metal plate. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification; the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used; and establishments engaged in the manufacture of watches which are to be reported separately in classification 3602-09.

Special note: This classification is for manufacturers engaged in the mass production of jewelry items and is distinguishable from jewelry stores reported in classification 6308 who produce custom, one-of-a-kind pieces on a special order basis. Trophy stores in classification 6308 may assemble components to make custom trophies, or engrave plaques for the trophies they sell. Assembly and engraving that is incidental to their retail sales operation is included in their store classification.

3602-07 Electronic parts: Assembly

Applies to establishments engaged in the assembly of electronic parts which are usually sold to other manufacturers. They may have automated/robotics assembly lines for all or part of the processes. In manual operations, small parts are soldered, chipped, riveted, or screwed into place with hand tools such as, but not limited to, soldering guns, riveters, drills, screw drivers, or water jets. This classification also applies to establishments engaged in the manufacture or assembly of computers and the manufacture of dry cell (flashlight type) batteries. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-08 Electrical/electronic ignition assembly, cord set, or radio set: Assembly

Applies to establishments engaged in the assembly of electrical/electronic ignition assemblies, cord sets, and radio set components. An ignition assembly is a switching compo-

nent that allows an electrical circuit to be completed in order to start a piece of machinery or equipment. Electrical cord sets are the portion of wiring found on appliances and tools that plug into electrical power sources. A radio set is comprised of an input circuit for tuning in to the frequencies of the various transmitters to be received, the demodulation circuit for separating the audio-frequency from the high-frequency carrier, a low-frequency amplifier stage, and the loudspeaker. The amplifier elements are transistors supplied with the necessary operating voltages. Establishments in this classification usually assemble radio component parts and circuit boards that are manufactured by others. The assembly is accomplished by soldering, clipping, riveting, and welding the parts into place. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-09 Watch: Manufacturing

Applies to establishments engaged in the manufacture of watches. The component parts are usually mass produced on an assembly line. Watch cases are usually made from sheet metal or plastic; watch faces are made from plastic or glass. The internal works are very small gears or springs and/or computer chips. The face may have hands and a dial, or may consist of a light emitting diode (LED). This classification includes the manufacture of internal works of clocks. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes establishments engaged in the manufacture of jewelry which are to be reported separately in classification 3602-06; establishments engaged in the manufacture of wooden housings or casings for clocks such as grandfather and mantle types which are to be reported separately in classification 2905; all outside repair work which is to be reported separately in the applicable services classification; and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-10 Camera, video camcorder, motion picture projectors: Manufacturing, assembly, or repair

Applies to establishments engaged in the manufacture, assembly, or repair of cameras, video camcorders, and motion picture projectors. Materials include, but are not limited to, metals, plastics, glass and internal components. Machinery includes, but is not limited to, punch presses, drill presses, and soldering guns. Establishments in this classification often assemble products from internal components manufactured by others. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

Special note: When an establishment subject to this classification has a retail store, then both classifications 6406 and 3602-10 may be assigned, provided all the conditions of the general reporting covering the operation of a secondary business have been met. Otherwise, all operations are to be reported in the highest rated classification of the two.

3602-11 Fishing tackle: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of fishing tackle. For purposes of this classification, the term fishing tackle is limited to lures, spinners, spoons, flies, plugs, sinkers, artificial bait and similar items. Work contemplated by this classification includes the receipt of supplies such as wire, hooks, spoons, swivels, beads and feathers, and other components from unrelated manufacturers and distributors, hand assembly of components into finished fishing tackle, painting spoons and plug bodies, packaging and shipping. This classification also contemplates testing of products and research and development of new products. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes the manufacture of items such as, but not limited to, reels, poles, nets, tackle boxes, knives, melting pots, plastic beads, wooden or plastic plug bodies, hand tools (pliers, bench vise) molds, specialty clothing or protective gear which are to be reported separately in the classification applicable to the material and process used to produce the product; and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

Special note: Care should be taken when assigning this classification to verify that the product being manufactured is compatible with the manufacturing and assembly processes contemplated within this classification. Most fishing tackle subject to this classification is hand assembled from small component parts.

3602-12 Incandescent lamp or electric tube: Manufacturing

Applies to establishments engaged in the manufacture of electrical or gas-filled bulbs or tubes such as, but not limited to, incandescent lamps, photoflash lamps, flood lamps, fluorescent tubes, X-ray tubes, cathode-ray tubes, neon tubes or artistic style neon tube signs that are not attached to metal backings. The processes and equipment will vary somewhat depending on the type of electrical bulb, tube, or lamp being made, but the basic operation is the same. Component parts such as, but not limited to, glass bulbs, globes, or tubes, tungsten wire, metal bases, shellac, and nitrogen and argon gas are purchased from outside sources. Using flange machines, the bottom of the glass tubing is fused to the flange to produce the base that is used within the bulb or globe. Metal bases may be milled, then coated with a sealing compound such as shellac. Mounts are assembled and inserted into the flange on stem machines. The assemblies are seared together, then the tungsten filaments are fixed between support wires forming the stem. The bulbs or globes are flushed with nitro-

gen to expel any moisture before the stems are inserted into them. These units are inserted into the metal bases and cemented. Air is evacuated and argon gas is pumped into the bases, after which they are heat sealed and trimmed. Neon tube signs or displays are made by heating a thin tube of glass over a ribbon flame until the tube becomes flexible, blowing air into the tube to keep the glass from collapsing, then, while it is still hot, bending it to shape. Because the glass cools rapidly, the heating and bending is repeated until the desired shape is achieved, then the tube is filled with neon or argon gas and the ends sealed.

This classification excludes establishments engaged in the manufacture of metal fixtures equipped with electrical or gas lighting which are to be reported separately in classification 3404; all outside repair work which is to be reported separately in the applicable services classification; and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-14 Musical instrument - metal: Repair

Applies to establishments engaged in the repair of metal musical instruments which include, but are not limited to, trumpets, trombones, French horns, and tubas. The operations involve primarily hand work such as, but not limited to, brazing and soldering, as well as fitting, testing, and polishing the instruments. Tools include, but are not limited to, solder or brazing guns, lathes, drill presses, and various types of saws. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification; the repair of wood musical instruments which is to be reported separately in classification 2906; and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-23 Electronics products - resistors, capacitors, chips and relays, transistors: Manufacturing

Applies to establishments engaged in the manufacture of resistors, capacitors, chips, relays, and transistors which are usually tiny and delicate. Products manufactured in this classification are usually mass produced with little human intervention during the production process, which is often done in a vacuum or a nitrogen filled room. Materials include, but are not limited to, silicon, wires, and plastics. In addition to the automated equipment, hand-held tools include, but are limited to, pliers, wrenches, and soldering guns. Finished products are inspected, usually through powerful microscopes, then packaged and shipped. This is a shop or plant only classification. Repair work, when specified, is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-24 Stamped metal goods: Manufacturing

Applies to establishments engaged in the manufacture of small, stamped, metal goods such as, but not limited to, metal tags, buttons, zippers, bottle caps, fasteners, snaps, clasps, buckles, and curtain fasteners. Materials, which come in coils or strips, are run through presses. Most of the stamping is done on automatic stamping presses. Products are cut, stamped, formed, trimmed, and cleaned, then usually finished by plating or lacquering. This is a shop or plant only classification. Repair work, when specified, is limited to work performed at the shop or plant.

This classification excludes the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-27 Electronic circuit board, N.O.C: Assembly

Applies to establishments engaged in the assembly of electronic circuit boards not covered by another classification (N.O.C.) which are used in a wide variety of electronic and automotive products. The process usually begins by cutting boards to size with power saws, then drilling or punching holes in them with automated drills or punches. Depending upon the original materials used, the boards used for the base may be coated or dipped. Then the chips, transistors, resistors, and/or condensers are installed, usually as part of an assembly line process. Next, the circuit boards are dipped and coated with a thin metal. Finished products are inspected, tested, packaged and shipped. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

3602-28 Stereo components: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of stereo components such as, but not limited to, record changers, disc or video players, receivers and amplifiers. Materials include, but are not limited to, circuit boards, resistors, drivers, baffle plates, chambers, trim/rings, and grills. Equipment includes, but is not limited to, hot glue guns, electric drills, electric screw drivers, and automated assembly or manufacturing equipment. Finished products are inspected, tested, packaged and shipped. This is a shop or plant only classification. Repair work when specified is limited to work performed at the shop or plant.

This classification excludes all outside repair work which is to be reported separately in the applicable services classification, and the production of raw materials used in the manufacturing of the above articles which is to be reported separately in the classification applicable to the production process used.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-594, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-594, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-594, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-594, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-594, filed 11/27/85, effective

1/1/86; 85-06-026 (Order 85-7), § 296-17-594, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-594, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-594, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-594, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-594, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-594, filed 11/30/79, effective 1/1/80; Order 75-38, § 296-17-594, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-594, filed 11/9/73, effective 1/1/74.]

WAC 296-17-595 Classification 3603.

3603-10 Furniture stripping and refinishing; metal plating or polishing, rustproofing, N.O.C.

Applies to establishments engaged in stripping and refinishing wood or metal furniture, or metal plating (a coating of metal on an object), polishing, and rustproofing that is not covered by another classification (N.O.C.). Furniture refinishing contemplated by this classification includes, but is not limited to, preparing articles for finishing or refinishing by dipping in chemical solutions/acid baths to remove the old finish or dirt, sanding and wire brushing as needed, thoroughly removing all residues, applying new finish by brushing, rolling, spraying or dipping, air or oven drying, and any appropriate finish work such as waxing, polishing and buffing when done by employees of an employer having operations subject to this classification. *Metal plating* contemplated by this classification may be done by dipping in hot solution or spraying with a very high pressure, heated gun. *Electroless plating* is another type of dipping process which can be used to plate metals, plastics, and other materials by first preparing the surface with a chemical to ensure adhesion of the metal plating material. *Rustproofing*, as contemplated by this classification, is usually applied by dipping or spraying. Plated items may be finished by lacquering and polishing. *Polishing* may also be conducted as a separate contract on metal and nonmetal items.

This classification excludes furniture finishing/refinishing done in conjunction with manufacturing or repair which is to be reported separately in classification 2905; metal plating, polishing, rustproofing and finishing done in conjunction with manufacturing of metal or a metal product which is to be reported separately as applicable to the product; undercoating of automobiles or other vehicles which is to be reported separately in classification 3411; metal plating done by an *electrolytic method* and rustproofing by *anodizing method* which are to be reported separately in classification 3603-11.

3603-11 Electroplating and detinning, N.O.C.

Applies to establishments engaged in providing electroplating or detinning services that are not covered by another classification (N.O.C.). Work contemplated by this classification includes, but is not limited to, preparing items by dipping in chemical solution/acid baths to remove old finish or dirt, sanding and wire brushing as needed, removing all residues thoroughly, electroplating to create the new finish, air or oven drying, any appropriate finish work such as polishing and buffing, and electrolytic or chemical baths for detinning processes, when done by employees of an employer having operations subject to this classification. *Electroplating* (including galvanizing and tinning) to achieve a protective or decorative coating is done by immersing the metal object in a solution which contains the desired metallic particles (metals commonly used are gold, silver, nickel, zinc and chromium) and passing an electric charge through the solution which causes the metal particles to adhere to the object being plated. Typical items plated include, but are not limited to, jewelry, plumbing hardware and components, silverware, eyeglass frames, medical instruments, and various specialized industrial components of any size. Plated items may be polished and lacquered as part of the finishing process. This classification includes *anodizing* to rustproof aluminum and some aluminum alloys by immersion in an acid bath and applying an electric charge to the metal which causes the finish to form on it. *Detinning* is the process of recovering tin from tin plated scrap. The "chemical process" involves using caustics and an oxidizing agent which causes the tin to separate from the metal it was plated to. A variation of this method introduces electrolysis to achieve a purer reclamation. The "chlorine process" uses chlorine applied under pressure to dissolve the tin and separate it from the tin plated scrap.

This classification excludes any electroplating or rustproofing by electrolytic methods done in conjunction with the manufacturing of metal or a metal product which is to be reported separately as applicable to the product; metal plating, polishing or rustproofing not using electrolytic methods which is to be reported separately in classification 3603-10; galvanizing or tinning done by hot dip process which is to be reported separately in classification 3604; and any detinning not done by a specialty shop as described above.

3603-12 Painting in shop, N.O.C.

Applies to establishments engaged in providing painting services at their shop, that are not covered by another classification (N.O.C.). This includes painting wood, metal, plastic, glass or other items. Customers include manufacturers, cabinetmakers or millwork manufacturers who do not do their own finish painting/staining/varnishing, or individuals who need only one item painted. Work contemplated by this classification includes, but is not limited to, preparing items for finishing by cleaning, sanding and wire brushing as needed, applying new finish by brushing, rolling, spraying or dipping, air or oven drying, and any appropriate finish work such as waxing, polishing and buffing when done by employees of an employer having operations subject to this classification. This classification includes application of nonmetallic coatings by dipping (such as nonstick surfaces) and painting with an electrostatic paint gun.

This classification excludes *sign painting* when done by establishments who do not manufacture the sign, which is to be reported separately in classification 4109; any painting done in conjunction with the manufacture of a sign which is to be reported separately in classification 2903, 3404, 3503 or 3510 as applicable; painting done in conjunction with the repair of an exterior sign which is to be reported separately in classification 0403; furniture stripping and refinishing services which are to be reported in classification 3603-10; furniture finishing done in conjunction with manufacturing or repair which is to be reported separately in classification 2905; automobile painting which is to be reported separately in classification 3412; the permanent yard or shop of a painting contractor which is to be reported separately in classification 5206 provided the conditions set forth in WAC 296-17-675 have been met; and the painting/staining/varnishing of

any item done in conjunction with the manufacturing of that item which is to be reported separately as applicable to the product.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-595, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-595, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-595, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-595, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-595, filed 11/9/73, effective 1/1/74.]

WAC 296-17-596 Classification 3604.

3604-16 Galvanizing or tinning - not electrolytic, N.O.C.

Applies to establishments engaged in providing galvanizing or tinning services, *not using an electrolytic method,* that are not covered by another classification (N.O.C.). This process uses molten zinc or tin dip to coat metals to deter corrosion (galvanizing) and tarnish (tinning). The process is used on all types of metal products from hand tools to automobile body parts and pieces of machinery. Work contemplated by this classification includes, but is not limited to, preparing metal by cleaning and washing in an acid solution, flushing with clean water, dipping in a metallic solution, immersion in the molten zinc or tin, and draining and/or blowing away the excess to achieve a smooth finish before cooling.

This classification excludes galvanizing or tinning using an electrolytic process which is to be reported separately in classification 3603-11 and any galvanizing or tinning operations conducted in conjunction with a metal or metal product manufacturing operation which is to be reported separately as appropriate to the product.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-596, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-596, filed 11/27/85, effective 1/1/86; 81-24-042 (Order 81-30), § 296-17-596, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-596, filed 11/9/73, effective 1/1/74.]

WAC 296-17-597 Classification 3605.

3605-28 Truck: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of complete trucks. Truck manufacturers subject to this classification are the nonpassenger type vehicles such as semi-trucks. These establishments may manufacture the chassis, body and other truck components or they may purchase any of these items from other manufacturers and simply assemble the trucks. Usually they will purchase the axle assemblies, transmissions, electrical and cooling systems, and steering gears from others. The determining factor to assign this classification is that they do the final assembly of the various components to make the truck operational.

This classification excludes auto or passenger vehicle manufacturing including pick-up trucks which is to be reported separately in classification 3402; truck component manufacturing which is to be reported separately in the appropriate manufacturing classification; and semi-truck repair and service centers which are to be reported separately in classification 3413.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-597, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-597, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-597, filed 11/9/73, effective 1/1/74.]

WAC 296-17-599 Classification 3701.

3701-03 Ammonia, nitrogen and ammonium nitrate: Manufacturing

Applies to establishments engaged in the manufacture of ammonia, nitrogen and ammonium nitrate. Ammonia is a colorless gas used as a component in fertilizer, medicines and cleaning compounds manufacturing. The manufacturing process involves combining hydrogen and nitrogen gases with a catalyst which causes a reaction between the two gases when heated in a generator. Ammonium nitrate is a crystalline compound used mainly in fertilizers, explosives and propellants. The manufacturing process involves combining ammonia and nitric acid in a reactor. Nitrogen is a colorless gas that is obtained from the air and processed by compressing air in a pressurized tank, removing impurities, and separating nitrogen and oxygen through heating.

3701-04 Nitrate recovery from X-ray and photo films

Applies to establishments engaged in recovering nitrate or silver from X-ray and photo films. The recovery process involves placing the films in developing solutions, ionizing the solution and separating the elements.

3701-05 Dye and chemicals: Manufacturing

Applies to establishments engaged in the manufacture of all types of dyes and in the manufacture of dyes and chemicals that are used exclusively for tinting candles. Organic and inorganic compounds such as, but not limited to, phenols, alcohols, caustics, acids, salts and gases are used in the manufacturing process. Manufacturing methods include, but are not limited to, weighing raw materials to specifications and pumping them into vats where they are heated, agitated and cooled. They are then filtered through presses, dried in ovens, ground into a powder, and then packaged. Liquid or paste forms of dye go through the same process with the exception of the drying and grinding operations.

3701-06 Chemicals, N.O.C.: Manufacturing by nitration, alkylation and oxidation processes

Applies to establishments engaged in the manufacture of chemicals not covered by another classification (N.O.C.) using a nitration, alkylation or oxidation process. Nitration involves the combining of nitrate with an organic compound to produce nitrobenzenes used in solvents, fertilizers and acids. Alkylation involves combining alkyls with other substances to form products used in the production of paper pulp, hard soap and petroleum products. Oxidation involves the combining of oxygen with other substances to produce products such as, but not limited to, hydrogen peroxide, protective metal coatings, and pharmaceutical preparations.

This classification excludes the manufacture of ammonia or nitrogen which is to be reported separately in classification 3701-03 and the manufacture of oxygen, hydrogen, acetylene gas, carbonic acid gas, or acids which is to be reported separately in classification 3701-10.

3701-07 Chemical mixing, blending and repackaging only

Applies to establishments engaged exclusively in mixing, blending or repackaging chemicals; it does *not* apply to the manufacture of ingredients for the mixing operation. The product may be mixed by hand or through a mechanical pro-

cess. The equipment used by establishments covered by this classification is limited to storage tanks, mixing or blending vats, filling and packaging machines and miscellaneous equipment such as fork lifts and trucks.

This classification excludes establishments involved in more than a mixing, blending or repackaging operation which are to be reported separately in the appropriate chemical manufacturing classification.

3701-08 Cosmetics: Manufacturing

Applies to establishments engaged in the manufacture of cosmetics such as, but not limited to, soap, shampoo, hair conditioners, skin moisturizers, baby powder, lipstick, nail polish, bath oil, bath salts, and various personal care creams, gels or lotions. The process involves the mixing of premanufactured ingredients, using equipment such as storage tanks, mixers, heating devices, bottling/packaging/labeling equipment, and laboratory equipment for product development and quality control.

This classification excludes the manufacturing of the ingredients used in the mixing of the cosmetics.

3701-09 Drug, medicine, or pharmaceutical preparation: Manufacturing

Applies to establishments engaged in the manufacture of pharmaceuticals including drugs, medicines, and preparations such as, but not limited to, tablets, pills, ointments, liquids, and powders. Processes contemplated by this classification include mixing or blending of the base medicinal ingredients and additives such as, but not limited to, sugars, starches, flavorings, and waxes used for coating tablets. Compounds are then pulverized, distilled, heated and/or dried.

This classification excludes the manufacture or harvest of the ingredients used in the manufacture of the pharmaceuticals.

3701-10 Oxygen, hydrogen, acetylene gas, carbonic acid gas: Manufacturing

Applies to establishments engaged in the manufacture of oxygen, hydrogen, acetylene gas, carbonic acid gas, dry ice, or acid. The manufacture of oxygen and hydrogen involves the recovery of these gaseous elements from the air by compression, expansion and cooling operations until it liquefies. The liquid air then goes to a fractionator where the oxygen is separated from the hydrogen along with other gases such as neon and helium. Acetylene is a highly flammable but nontoxic gas that is manufactured by reacting calcium carbide with water in a pressure generator which combines carbon and lime to form the end product. Carbonic acid gas, also know as phenol, is a caustic poisonous gas used in manufacturing resins, plastics, and disinfectants. The manufacture of phenol involves a compression and refrigeration process.

3701-11 Alcohol: Manufacturing, distilling, N.O.C.

Applies to establishments engaged in manufacturing or distilling nonspirituous alcohol not covered by another classification (N.O.C.). Types of alcohol include, but are not limited to, methanol (wood alcohol), ethanol (grain alcohol) or denatured alcohol (combination of methanol and ethanol). Products produced include, but are not limited to, solvents, processing materials, germicides, antiseptics, or materials intended to be used as an ingredient in other products such as varnish and shellac. The processes for the production are varied depending on the type of alcohol and end product but all use a distillation process which involves the heating of liquids and subsequent condensation of vapors to purify or separate a substance contained in the original wood or grain product.

This classification excludes the manufacture of spirituous liquor which is to be reported separately in classification 3702 and gasohol distilling or refining which is to be reported separately in classification 3407.

3701-13 Polish, dressing, or ink: Manufacturing

Applies to establishments engaged in the manufacture of polish, dressings, or ink. Polish and dressing products include, but are not limited to, polish or dressings for shoes, leather, furniture, automobiles or metal. The ingredients and processes for polish and dressing manufacturing vary, depending on the end product. Typical ingredients include but are not limited to oils, waxes, resins, detergents, methanol, solvents, water and coloring. The process may involve a simple mixing operation or a more involved process involving heating or cooking and molding into a cake or stick form. Typical equipment includes, but is not limited to, weighing and measuring scales, mixers, stoves, molding apparatus, automatic filling, labeling, wrapping and packaging machines. Ink manufacturing covers all types of ink including, but not limited to, newspaper, book, magazine, and writing ink. The process involves the cooking of oils and resins which produces a resin. Pigments and dryers are blended into the resin mixture and diluted to proper consistency.

This classification excludes the manufacture of candles, crayons, and adhesives which is to be reported separately in classification 3701-25.

3701-14 Extract: Manufacturing, including distillation of essential oils

Applies to establishments engaged in the manufacture of extract including the distillation of essential oils. Extracts are concentrated forms of an essential component of a food or a plant. Extracts include, but are not limited to, flavorings, perfume oils, sachet powders, ingredients for skin conditioners and hop extracts used in the brewing of beer. The process involves extracting flavorings or oils from various plants, herbs or fruit peelings by pressing, cooking, steaming or distillation. The extracts may be mixed or blended with other extracts for strength, consistency or color and are then bottled or canned. Typical equipment includes, but is not limited to, steam cookers, presses, distillation apparatus, filters, grinders, tanks, vats and filling, packaging and labeling machines.

This classification excludes perfume manufacturing which is to be reported separately in classification 3701-15; mint distilling which is to be reported separately in classification 3701-17; and hop pellet manufacturing which is to be reported separately in classification 2101.

3701-15 Perfume: Manufacturing, including distillation of essential oils

Applies to establishments engaged in the manufacture of perfumes including the distillation of essential oils. Perfumes may be used as a personal fragrance or by other manufactur-

ers such as in the making of scented candles. The process typically involves the distillation, cooking, grinding, compounding, drying, blending, or liquidizing of ingredients. These ingredients may include, but not be limited to, extracts, oils, colors and binders.

This classification excludes the manufacture of candles which is to be reported separately in classification 3701-25.

3701-17 Mint distilling

Applies to establishments engaged in the distillation of mint. The process may begin with mint oil that is purchased from others or with the distillation of the mint leaves into mint oil. The mint leaves are chopped and blown into a mint steamer which lifts the moisture and oils from the mint. The resultant steam then goes through a series of condensation lines. Water is added to force the oil to the top of the liquid. The mint oil is heated for purification and to lessen the fragrance. Various mint oils may then be blended together to produce different types such as spearmint and peppermint. The product is then packaged in stainless steel or epoxy lined barrels.

This classification excludes the raising and harvesting of mint which is to be reported separately in classification 4811.

3701-20 Salt, borax or potash producing or refining

Applies to establishments engaged in the production of or refining of salt, borax or potash. This classification includes the manufacture of common salt used in chemical and food processing, borax which is used in the manufacture of glass, glazes, soap, and boric acid, and potash which is used in fertilizer. Salt ores received from others are dissolved in water to produce a brine of the desired concentration. It is refined into common salt by adding caustic soda and soda ash. Potash is refined by adding an amine to the brine which causes the salts to float to the surface where they are skimmed off. Borax is made by separating it from the potash by a rapid cooling process. All three of these products are then fully evaporated by heating in a partial vacuum to produce crystals or granules which are then dried.

This classification excludes the production of raw materials used in the manufacture of these products.

3701-21 Serum, antitoxin or virus: Manufacturing

Applies to establishments engaged in the manufacture of serums, antitoxins, or viruses. The process involves considerable microscopic laboratory work as well as working with animals. The animals are injected with bacteria and viruses, periodically bled and eventually killed. The killing of the animals is included in this classification as it is incidental and necessary to perform the operation to extract the serum from the glands and to separate the red blood cells from the blood.

This classification excludes the manufacture of other drugs or medicines which are to be reported separately in classification 3701-09.

3701-22 Paint, varnish or lacquer: Manufacturing

Applies to establishments engaged in the manufacture of paint, varnish, lacquer, enamel, shellac, paint removers and thinners. The paint manufacturing process involves a series of mixing and grinding operations. The pigments (solids) are then blended with oils or resins (liquids). A paint extender may also be added at this point. The paint is then pumped into filling machines where various sized containers are filled and then labeled. Lacquer, varnish, enamel, shellac and paint removers and thinners vary in the ingredients used but the process is similar to that of paint manufacturing in that it is mainly a mixing operation. Varnishes involve a cooking process which is generally not used in the manufacture of the other products included in this classification.

This classification excludes the production of raw materials used in the manufacture of these products.

3701-23 Putty or synthetic resin: Manufacturing

Applies to establishments engaged in the manufacture of putty or synthetic resin. Putty is a finely powdered chalk mixed with linseed oil. The main ingredients for both putty and synthetic resins are ground chalk, limestone and/or calcite. The process for both products involves grinding and mixing operations.

This classification excludes the production of the raw materials used in the manufacture of these products.

3701-25 Candle, crayon, and paste or glue: Manufacturing

Applies to establishments engaged in the manufacture of candles, crayons, and synthetic adhesives such as paste or glue. Raw materials used for making candles include, but are not limited to, beeswax, paraffin, stearin, wicks and colors which are received from others. The wax is heated in kettles or similar devices into which the wicks are dipped either by hand or by dipping equipment which can be either manual or automated. A fragrance may be added to the melted wax for scented candles. When the wax has attained the desired shape and size it is hung on lines to dry. The wicks are then cut and the candles are placed in molds to shape the base of the candle. Color is then added by dipping either by hand for specialized designs or by machine for solid colors. The candles are then inspected, wrapped, packaged and labeled. Crayons use the same ingredients that are used in making candles with the exception of the wicks. The type of wax used in making crayons determines the hardness. The wax is melted in a kettle or similar device and poured into molds for shaping and cooling. The crayons are then inspected, packaged and labeled. Synthetic paste or glue is made from powder or granule arabic gum or modified starch which is received from others along with preservatives and the containers and caps. The process involves mixing and cooking the ingredients in steel tanks and pumping the product to a filling area where it is packaged, labeled and capped.

This classification excludes the manufacture of polish, dressing, or ink which is to be reported separately in classification 3701-13; the manufacture of glue from animal substances which is to be reported separately in classification 4301; and the production of raw materials used in the manufacture of these products.

3701-27 Hazardous/toxic material: Repackaging for disposal

Applies to establishments engaged in *identifying and repackaging* hazardous/toxic materials for disposal. This classification is distinguished from classification 4305-20, in that classification 3701-27 applies to the *identifying and repackaging for disposal* of such materials as drugs, pesti-

cides, chemicals, and toners that contain toxic or hazardous materials, while classification 4305-20 includes the *processing or handling* of such materials as medical or septic tank waste, drug lab or hazardous spill *cleanup,* and *reprocessing or handling* of low-level radioactive materials. For handling hazardous or toxic materials, the workers are equipped with protective clothing such as long sleeved shirts, depending on the material to which they will be exposed. They may also be equipped with steel toed boots, protective gloves, safety glasses and various types of respirator equipment. On a typical project, the first step is to visually inspect the materials to see if they appear to be the materials described on a job order. If there is a question of identity, a sample of the material is sent to a lab for analysis. The establishment may have its own lab facilities or the sample may be sent to an outside lab, or the customer may have it analyzed. Every component of the sample must be identified. Once the material has been identified, and all containers labeled, the containers are separated into appropriate groupings. Smaller containers of similar types of materials are packed into 55 gallon drums with plastic or other cushioning protective material to prevent breakage. All necessary paper work and forms required by various government agencies must be completed before the material can be transported to a disposal site.

This classification excludes hazardous/toxic material *processing or handling,* including processing of medical or septic tank waste, drug lab or hazardous spill cleanup; reprocessing or handling of low-level radioactive materials which is to be reported separately in classification 4305-20; and the replacement of nontoxic toner in cartridges used in business machines which is to be reported separately in classification 4107.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-599, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-599, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-599, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-599, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-599, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-599, filed 11/27/78, effective 1/1/79; Order 74-40, § 296-17-599, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-599, filed 11/9/73, effective 1/1/74.]

WAC 296-17-600 Classification 3702.

3702-01 Breweries or malt houses
Yeast: Manufacturing

Applies to establishments engaged in operating breweries, micro breweries, or malt houses, and includes all operations involved in the making of malt, beer, or ale as well as packaging into kegs, bottles or cans. Beer is produced from water, hops, barley malt and corn or rice; this mixture is cooked, filtered, cooled and then fermented. After the fermentation is complete, the beer is usually pasteurized and filtered, then sealed in kegs or packaged in individual bottles or cans. The exact process varies from brewery to brewery. Some breweries produce their own malt while others obtain the barley malt from an independent malting company. This classification includes warehouses and distributing stations maintained by the breweries at the brewery or at separate locations. This classification also includes tour guides, tasting room and gift shop employees. This classification also applies to establishments engaged in the manufacture of yeast.

This classification excludes establishments engaged exclusively as wholesale or combined wholesale/retail distributors of beverages which are to be reported separately in classification 2105.

3702-03 Bottling: Beverages, N.O.C.

Applies to establishments engaged in the production, bottling, and distribution of beverages not covered by another classification (N.O.C.) such as, but not limited to, carbonated and noncarbonated soft drinks, seltzers, fruit juices, lemonades, iced teas, and bottled waters. These bottling establishments purchase syrup or concentrate from the franchiser or concentrate manufacturer to produce a variety of products. Containers such as, but not limited to, aluminum or steel cans, plastic or glass bottles, are sanitized, filled with beverages, and sealed. Typically, bottlers will operate a single production facility and have multiple distribution warehouses.

This classification excludes establishments engaged exclusively as wholesale or combined wholesale/retail distributors of beverages which are to be reported separately in classification 2105 and manufacturers of syrup/concentrate for soft drinks which are to be rated separately in classification 3902.

3702-05 Wine making or wineries
Spirituous liquor: Manufacturing

Applies to establishment engaged in making wine from fruits or flavoring products such as, but not limited to, grapes, berries, peaches, or dandelions. The ingredients are crushed and the juice extracted; yeast is added to the juice; then the mixture is stored in a cool, temperature-controlled environment (such as a cellar) for fermentation to begin. During the natural fermentation, the sugar from the fruit is converted into alcohol. Additional processing includes clarification, filtration, pasteurization, centrifugation, and blending. The wine is bottled under vacuum and corked, labeled, and cased. This classification also applies to establishments engaged in the manufacture of spirituous liquor such as whiskey, gin, rum, and vodka. Operations involve preparing the mash from various grains, potatoes or molasses received from others, and fermenting, distilling and barreling of the products. This classification includes tour guides, tasting room and gift shop employees.

This classification excludes establishments engaged exclusively as a wholesale or combined wholesale/retail distributor of beverages which are to be reported separately in classification 2105; wine/liquor stores which are to be reported separately in classification 6403; and vineyard operations which are to be reported separately in classification 4813.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-600, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-600, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-600, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-600, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-600, filed 11/9/73, effective 1/1/74.]

WAC 296-17-604 Classification 3708.

3708-14 Hide or leather dealers

Applies to establishments engaged in the sale of dressed animal hides, reptile skins and tanned leather. Dealers in this classification receive raw hides from others, sort and grade them, "salt" them (by soaking in a salt solution) to help their preservation, and ship them to tanneries for processing. After the tanneries have processed them, the dressed and finished hides, skins and leather are returned to the hide dealers where they are again graded, measured, trimmed by hand as necessary, then stored until they are shipped to their customers. Customers are primarily manufacturers of garments or other items.

This classification excludes establishments who process raw hides, skins, and fur into tanned leather, or dressed fur, which are to be reported separately in classification 4301.

3708-15 Linoleum, oil cloth or imitation leather: Manufacturing; Coating, impregnating, laminating or waterproofing textiles, N.O.C.

Applies to establishments engaged in the coating, impregnating, laminating, or waterproofing of crude fabric whose operations are not covered by another classification (N.O.C.). Textiles or fabrics may be treated with coatings or finishes such as, but not limited to, oils, varnishes, lacquers, or plastic and rubber finishes. Woven or felt cloth (loose, in rolls or mounted on forms) can be coated with spreading devices, rollers, or by dipping in solvents, drained to allow solvents to evaporate, then cured in drying ovens. Impregnating involves placing fabrics in vacuum tanks with solutions of rubber or lacquer and solvents and subjecting them to various pressures. Solutions are drained, contents removed, dried, baked in curing ovens and rough spots removed by grinding. Laminating is a process of cementing fabric and coating materials together and running them through heated pressure rollers, then curing them in drying ovens. Fabric embossing, which is raising designs in a surface, is included in this classification. These processes are also used in the manufacture of linoleum, oil cloth, imitation leather, and similar waterproofed or laminated fabrics.

This classification excludes establishments engaged in the bleaching, dyeing, or finishing textiles which are to be reported separately in classification 3708-16 and coating or other finishing operations performed by employees of manufacturers of textiles or textile goods which are included in the manufacturing classification as applicable.

3708-16 Bleaching, dyeing or finishing textiles: N.O.C.

Applies to establishments engaged in the bleaching, dyeing, or mercerizing of crude fabric whose operations are not covered by another classification (N.O.C.). The fabric is first treated with bleaches, dyes, and other solutions, then singed and calendered prior to shipping to other manufacturers to be made into textile goods. Mercerizing is the treatment of fabric with sodium hydroxide to shrink the fiber and increase its color absorption and luster. Singeing is the burning of the fiber ends to seal them; calendering is pressing the cloth through heavy rollers to smooth and gloss it. The above operations require the use of large manufacturing machinery such as, but not limited to, calenders and large vats.

This classification excludes establishments engaged in coating, impregnating, laminating or waterproofing textiles which are to be reported separately in classification 3708-15; establishments engaged in the washing and drying, or dying of individual garments for others which are to be reported separately in classification 2201; and coating or other finishing operations performed by employees of manufacturers of textiles or textile goods which are included in the manufacturing classification as applicable.

3708-18 Broom or brush: Manufacturing or assembly, N.O.C.

Applies to establishments engaged in the manufacture or assembly of all types of household and industrial brooms, brushes, and mops not covered by another classification (N.O.C.), including, but not limited to, paint brushes and rollers, whisk brooms, scrub mops, dust mops, brushes for vacuum cleaners, street sweeping or other rotary machines. Animal hair, synthetic fibers, handles and backings made of wood, plastic or metal, screws, rivets or other hardware, metal springs and wire, yarn, and dust-attracting additives are purchased from outside sources. Tools and equipment include, but are not limited to, manually operated or computerized brush making machinery. Brush making machinery drills holes in the brush base, fills holes with hair or other fibers, and staples them in place. Other types of brush making machines make metal-back strip brushes which are mounted in straight or spiraled rows around cores (tubing or shafts), and used in rotary machines. These machines loop bristles around an anchor wire, then crimp a metal channel around the anchor wire, forming the base. The bristles are trimmed to precise lengths on trimming machines.

This classification excludes establishments engaged in the manufacture of metal, wood or plastic handles or backings which are to be reported separately in the classification applicable to the manufacturing process, and establishments that make only mop heads by sewing yarn or other strands to a cloth base which are to be reported separately in classification 3802.

3708-19 Cordage, rope, or twine: Manufacturing

Applies to establishments engaged in the manufacture of cord or cordage, rope, twine, or string from both natural and synthetic fibers such as cotton, manila, sisal, flax, jute, hemp, and rayon. Finished products, which range widely, include, but are not limited to, fish lines, shade or awning cords, mountain climbing ropes or riggings on boats. This classification includes the extrusion of polyethylene or similar pellets to form fibers when done by manufacturers for use in their own products only. This classification also includes establishments that pick, card, and comb fibers prior to twisting the resulting strands into twine or lightweight cord which they may further twist or braid together to produce heavier cordage or rope. "Picking" removes debris from the raw fibers; "carding" untangles and straightens the fibers; "combing" separates long fibers from shorter ones and forms them into thick strands (which are referred to as "slivers"). Other manufacturers in this classification start with spools of cording, then twist or braid a number of strands into heavier cordage or rope. Manufacturers may dye their products, coat them with latex to prevent deterioration, or steam and dry them. The above operations are included in the classification when performed by employees of employers engaged in manufacturing rope or cordage. Machinery includes bale breaking,

picking, carding, spinning, twisting, braiding, winding machines, dipping vats, and dryer ovens.

This classification excludes establishments engaged in the manufacture of net, thread, webbing, or yarn which are to be reported separately in classification 3708-26 and establishments engaged in the manufacture of plush, velvet, felt, or other fabric produced by spinning or weaving which are to be reported separately in classification 3708-27.

3708-22 Pelting

Applies to establishments engaged in animal hide pelting operations. A pelt is an untanned animal hide or skin with the hair or fur still on it. For classification purposes, pelting is defined as the initial cleaning and drying of animal skins or hides, but does not involve the removal of hair or fur, or tanning operations. Frozen pelts are thawed by flushing them in water. Fat and tissues are removed from the skin on fleshing machines. Fleshing machines resemble a band saw with a small blade over which the skin is moved to remove fat and tissue. Then skins are placed in tumblers or drums with cornmeal or sawdust to clean the excess moisture, dirt, and oils from them. They are usually transferred to another drum or shaker to remove the cornmeal or sawdust. The cleaned pelts are stretched on drying boards or metal frames, stapled to the frames with hand staplers, and placed in drying rooms until dry. Pelts are sold to tanneries or furriers where they are further processed into tanned hides or dressed furs.

This classification excludes establishments engaged in the tanning of leather and the dressing of fur which are to be reported separately in classification 4301; establishments engaged as taxidermists which are to be reported separately in classification 3708-23; and establishments engaged in raising fur bearing animals which are to be reported separately in classification 4804.

Special note: Pelting of fur bearing animals, when performed by the animal raiser, is considered incidental to the raising and is included within the scope of classification 4804. Raisers of fur bearing animals are entitled to classification 3708-22 only if their hide pelting operation involves the pelting of animals which have been raised by others.

3708-23 Taxidermists

Applies to establishments engaged in taxidermy which is the preparation, stuffing, and mounting of skins of dead animals for exhibition in a lifelike state. This classification includes all operations, including tanning of hides and making animal forms, when performed by employees of the taxidermist. Hunters and fishermen are the primary customers of taxidermists; pet owners may have a pet preserved, all of whom provide the skins or animals. Other customers include museums who use animal likenesses for decorating or exhibit. For these customers, the taxidermist usually purchases tanned hides from other sources. Small animals, such as birds, cats, or fish are usually mounted whole. Large animals may be mounted whole, although generally only the head and neck are mounted. Whole animals are posed and sometimes placed in natural-looking settings. The taxidermist may receive the skin, or the whole animal, in which case the skin is carefully removed in one piece. To remove fat and tissue, the fleshy side of the hide is pulled back and forth across the spinning blade of a fleshing machine. Fleshing machines resemble a band saw with a blade about a foot in diameter which is mounted on a worktable. Hides usually require "finer fleshing" which is done by scraping with a hand knife. Holes or tears in the skin are hand sewn. The taxidermist may finish preparing the skins, or they may send them to a tannery. Other preparations involve tumbling the skins in drums (which resemble clothes dryers) with sawdust or cornmeal to remove excess moisture, dirt, oils, then washing them in solutions of sodas, borax or alum to further clean, soften, and preserve them. Antlers are soaked in brine to remove blood and other waste. Prepared skins of smaller animals are usually stuffed; skins of larger animals are usually stretched over an animal form, sewn together, then glued onto the form. Taxidermists may make their own animal forms from fiberglass or other plastic materials, or they may purchase them elsewhere. Antlers, artificial eyeballs, teeth, tongues, toe nails, and hooves are attached. Finishing work requires touches of paint to eyelashes or mouths (applied with artist's brushes), sprays, or whatever make-up or sculpturing techniques are needed to make the animal look lifelike. Additional materials and equipment includes plaster, cotton or other stuffings, styrofoam, cleaning agents or waxes, hand tools for cutting, scraping, and sculpturing, rasps, sewing needles, hammers, saws, freezers, dryers and tumblers, and sewing machines.

This classification excludes establishments engaged in hide pelting which are to be reported separately in classification 3708-22 and establishments engaged in tanning operations and fur dressing which are to be reported separately in classification 4301.

3708-26 Net, thread, webbing, yarn: Manufacturing

Applies to establishments engaged in the manufacture of webbing, thread, or yarn by spinning, weaving or knitting processes from natural or synthetic fibers such as, but not limited to, cotton, rayon, silk, wool. This classification also includes the manufacture of nets which are woven from cording or twine. Initial operations include the removal of debris from fibers by picking; and untangling, straightening, and stretching of fibers by carding. A combing operation separates long fibers from shorter ones and forms them into thick strands (referred to as slivers). Slivers are placed on creels and fed into spinning machines to be further stretched, spun and twisted onto bobbins (also called packages). The thread or yarn go through further winding, rewinding, doubling, or reeling, depending on the ply being produced. At some point prior to the final winding onto a cone, the threads are rinsed in vats of hot water for several hours to set the ply; dyes may be added to the rinse. Threads are then spun dry and placed in dehydrators until all moisture is removed. Yarn/thread is packaged and sold to fabric weavers. Elastic or nonelastic webbing is woven from yarns or threads on narrow-shuttle looms or knitting machines. The finished lengths are coated, laminated, or dyed prior to winding onto skeins or spools for sale to others. Nets manufactured in this classification range from batting nets or hoop nets for sports, to nets used for commercial purposes. Styles are also widely varied; mesh nets woven on net looms, other types knitted on net-knitting machines; some are hand knotted. Manufacturers may sell "net systems" which include traps, hooks, hinges, lines and other fishing paraphernalia, to the marine industry. Those

companies usually sell several styles of nets, some of which are made from ready-made netting they purchase elsewhere and sew bindings and hardware onto them. Hand-knotted netting is often used to catch salmon or herring. Lengths of rope are unwound with winches and winders, and stretched across a waist-high loom that usually extends the length of the factory and includes overhead bars from which rope hangs. Workers stand at the loom and knot the lengths of rope to form nets. Hand knotting is considered an art and takes some time and skill to learn. There are different ways of finishing the nets. Some are pulled and stretched with winches through a heating-drying system (these can be up to 100 feet or so in length). The top of the unit is lowered over the stretched net and steam heat is applied. The stretching tightens the knots, which strengthens them; drying shrinks and cures the net, also adding strength. Another method is to soak nets in vats of hot water to which dyes may be added. Nets may also be dipped in latex coatings and dried in dryer-ovens.

This classification excludes establishments engaged in the manufacture of cordage, rope, or twine which are to be reported separately in classification 3708-19.

3708-27 Spinning or weaving, N.O.C. Plush, velvet, felt: Manufacturing

Applies to establishments engaged in spinning or weaving operations to manufacture woven or nonwoven fabric and which are not covered by another classification (N.O.C.). Raw materials include natural or synthetic filaments (also called thread) such as, but not limited to, cotton, wool, rayon, acetate, or spun fiberglass. Some manufacturers spin their own yarn prior to weaving it into cloth; others purchase the yarn from outside sources. To make woven cloth, creels hold spools (or beams) of yarn; the yarn feeds into the weaving machinery and is woven into cloth. The resultant cloth may be washed, dried, bleached, dyed or otherwise finished by the same manufacturer, or sent elsewhere for finishing. The dyeing, bleaching, or coating of fabric is included within the scope of this classification when performed by employees of an employer engaged in the manufacture of fabric. Nonwoven fabric (also called spunbonded) is lightweight and can be either absorbent or repellent. Uses for this type fabric include, but are not limited to, inner-lining of diapers, surgical/medical masks, handiwipes, mattress pads, pillow coverings. Process for making spunbonded fabric starts with the extrusion of polyethylene pellets into taffy-like substance which is eventually spun into continuous threads with the use of suction, electricity, cold air, and blowing. Once the substance is formed into threads, the threads move through the machinery at high speeds where air guns or nozzles suction several threads into one "visual strand." These transparent strands move along and are blown onto a fast-moving wire conveyor of a sheet-making machine where they are crisscrossed to form a nonwoven mass; the mass passes through the machine's large rollers as heat is applied to it. The heat and the pressure of the rollers bonds the webbed mass into the nonwoven fabric. The fabric passes through more rollers and winders, is wound onto paper cores, cut, and packaged for shipment. This classification includes the manufacture of plush, velvet or felt. Plush and velvet manufacturing contemplates similar operations and machinery as those for other woven fabrics. With velvet, the pile is almost always silk while the pile for plush may be of silk, wool, or mohair. Backings for both may be one or more of silk, artificial silk, wool, or cotton. After leaving the looms, the material goes through coloring, embossing, printing, brushing, shearing and inspecting processes. Felt is a mat-like material which is made by pressing raw materials, such as raw wool, cotton, nylon, textile scraps, into desired dimensions. The materials are first mixed in required proportions and, after picking and dusting, passed through breakers, carders, then laid in layers to form the felt. The felt is pressed and hardened by a hardening machine and, after fulling, is washed, dyed, then dried. (Fulling increases the weight and bulk by shrinking, beating, or pressing.) Once dry, the felt is pressed and trimmed in shearing machines and folded or rolled for shipping.

3708-29 Mattress or box springs: Manufacturing

Applies to establishments engaged in the manufacture of stuffed mattresses, spring mattresses, or box springs. The manufacture of batting, wadding, waste is included in this classification when performed by employees of employers engaged in manufacturing mattresses. Materials include, but are not limited to, wool or cotton stuffing materials, foam for padding, decorative fabric for mattress covers, upholsterer's tape and sewing notions, glue, wire coils or springs, wire grid racks, and wood frames. Machinery includes, but is not limited to, hand tools, staple guns, glue spray guns, nail guns, band saws, sewing machines, eyelet punches, quilting machines, and tape edgers. *Mattresses:* Mattress pieces are cut to desired size, edging sewn on, eyelets and cord handles attached to the side pieces. Quilting of the covering fabric is done on large quilting machines. To assemble mattresses, batting and foam padding, or other cushioning material, is laid out over the springs, then glued and stapled onto the springs, then ticking (covering) placed on both sides. Borders are sewn to the top and bottom pieces with a hand-held "tape edger" machine. *Box Springs*: Springs, grid racks, wood frames are received from outside sources. Wood frames are laid out on work surfaces, wire grids set on them, then the springs are stapled to the grids and frames at both ends, forming the box. Layers of batting and covering materials are secured in place; then lightweight cloth is stapled to the bottom of the boxed spring, and plastic reinforcement corner pieces tacked on.

This classification excludes establishments engaged in the manufacture of wire springs which are to be reported separately in classification 3402 and establishments engaged in the manufacture of batting, wadding, or waste which are to be reported separately in classification 3708-34.

3708-32 Carpet or rug: Manufacturing

Applies to establishments engaged in tufting carpets from textile fiber, or weaving carpets and rugs from textile yarn on weaving machinery. Tufted products are sold as wall-to-wall carpets, area rugs, art squares, bath mats or scatter rugs. Woven products are sold as aircraft or automobile floor coverings, mats or matting. Materials include, but are not limited to, pile yarn, jute backing, liquid latex, binding, and sewing notions. Machinery and equipment includes, but is not limited to, tufting machines, looms, vats, electric infrared dryers, electric cutting knives, and sewing machines. For tufted carpets or rugs, pile yarn is sewn to a prewoven jute

backing by a high speed machine using hundreds of needles. Rollers move the carpet over vats of rubberized liquid latex while the liquid is applied to the backing to secure the tufting. The carpet then passes through a dryer to dry the latex. Bindings are sewn on with a sewing machine.

This classification excludes establishments engaged in making hand carved or inlaid carpets or rugs from premanufactured carpeting which are to be reported separately in classification 3802.

3708-34 Batting, wadding or waste: Manufacturing; Wool combing or scouring

Applies to establishments engaged in the manufacture of batting, wadding or waste which is sold to distributors or other manufacturers for use in their products. The terms batting and wadding are interchangeable and refer to cotton or wool fibers wadded together to form a soft layer used for padding or stuffing. Batting/wadding is used to stuff mattresses, automobile tops, bed pillows and comforters, sleeping bags, futons, crating pads, stuffed animals, and similar items, or to upholster furniture. Raw materials such as raw or waste cotton, wool, and synthetic fibers are received from others and treated by processes that include shredding, willowing, picking, dusting, carding, blending, rolling, drying and curing. These processes require the use of considerable manufacturing machinery which includes, but is not limited to, choppers, shredders, blowers, conveyor systems, rollers, ovens, winders, and cutters. The terms willowing, picking, and dusting refer to opening and cleaning unprocessed wool or cotton; carding or combing untangles and separates fibers. Fibers are fed into garnetting machines where they are picked, pressure-blown and blended, then blown out onto a long, flat, surface that rotates as the fibers build up to a specified thickness. Once the desired thickness is reached, the mass moves through the machine's rollers, winders, and conveyors; it may be treated lightly with resins or linseed oil. The conveyors move the continuous rolled mass through enclosed ovens where it is cured and dried. The roll of batting may pass through a quilting machine to be bound together in a web structure of strong thread. Finally, it is wound onto cores, cut and prepared for shipping. Shoddy or waste manufacturing is the processing of rags or textile mill waste until the materials are reduced to fibers. Processes may include, but not be limited to, sorting, classifying, carbonizing (exposing rags to hydrochloric acid fumes), baking, dusting, washing, drying, batching, picking, garnetting, and baling. Wool separating operations may include soaking rags in diluted sulfuric acid or carbonizing to remove cotton and other foreign matter. The rags are then dried and processed to remove dust, washed in alkali to neutralize the remaining acid, then dried. This classification also applies to establishments engaged in wool combing or scouring operations. Wool is processed in dusters which remove dirt. The wool then passes to scouring tanks. Several washers may be combined in a unit, the wool passing from one to the other by automatic conveyors. The last tank of clear water rinses the wool and it is then dried. Sometimes it is picked and carded again prior to being dried, then bagged or baled for sale. This classification also includes the treating and twisting of animal hair for upholsterers' use.

3708-39 Textile goods: Manufacturing N.O.C.

Applies to establishments engaged in the manufacture of a wide variety of textile goods not covered by another classification (N.O.C.), and those which incorporate textiles with other types of raw materials. In addition to those described below, raw materials include, but are not limited to, metal or plastic rods and edging strips, glue, epoxy, cork, adhesive tape, nuts, bolts and other small hardware. In addition to that described below, machinery includes, but is not limited to, die cutters, rotary press cutters, band saws, hot wire cutters, reciprocating blade cutters, slitters, balers, thermoweld presses, laminators, rivetors, punch presses, shredding machinery such as hammer mills, and hand tools such as glue sprayers, staple guns, and rivet guns. Sewing machines are often used in the manufacture of products contemplated in this classification; however, sewing is an auxiliary function performed in addition to other fabrication processes. Products contemplated in this classification include, but are not limited to:

Abrasive cloth made by running the backing material (cloth, paper, or combinations of these) through a making machine which is usually a grouping of three units. The printer unit imprints the backside of the backing material with a trademark or grade number; in the next unit an adhesive bond is applied in varying concentrations and quantities; a grain dispenser applies grains or minerals such as flint, emery, crocus, garnet, aluminum oxide or silicone carbine, either by a mechanical or an electrostatic method.

Absorbent booms or sheets designed to lift oil from water, made by shredding paper with an absorbent finish, then blowing it into a sock of netting or a sheet sewn from nonwoven fabric.

Bug screens for automobiles made by cutting wire screen mesh to size with either scissors or a small shearer, sewing vinyl bindings around them.

Conveyor belts made by joining the ends of premanufactured belting made of natural or synthetic rubber to form a continuous belt. Ends may be joined by a mechanical splice or a vulcanized splice. A mechanical splice joins the ends with lacings (metal strips into which wire rods are threaded); a vulcanized splice joins the ends by applying heat under pressure. This type of bonding is also called thermo-welding.

Fishing rod wrappings added to blank poles made by others. Cork handles are glued onto the poles individually in a hand operation. Poles are positioned on a lathe-like devise powered by small motor. Next, guides are placed onto the pole and secured by winding thread around the pole as the lathe slowly turns it. Epoxy is brushed on by hand, or the pole is dipped in epoxy, then placed on a revolving wheel or hung to air dry. If the company that makes the poles also applies the wrappings (finishings), the entire operation is to be reported separately in the classification applicable to the manufacture of the poles.

Hard side luggage or carrying cases for items such as, but not limited to, video cameras, computers, telescopes, made by cutting plywood or premanufactured plastic sheets to pattern, lining the inside and outside of the pattern pieces with materials such as embossed paper or imitation leather, forming the case by riveting metal or plastic edging and corner pieces onto the pattern pieces, and attaching hardware

such as handles, hinges, and locks. Polyester foam padding is glued to the inside of the specialized carrying cases to protect the contents.

Hot tub covers made by cutting styrofoam to pattern, joining the two pieces with metal hinges and enclosing the unit in a vinyl covering.

Insulating products made by cutting materials such as premanufactured fiberglass cloth to specified shapes, then stapling together, or by laminating vinyl or other covering fabrics to premanufactured fiberglass cloth.

Office divider panels made by cutting premanufactured materials similar to polyfoam, laminating fabric onto foam, and attaching light weight metal or wood edging pieces.

Rigging for boats such as rope ladders made from heavy-duty rope, slings made by sewing bindings onto premanufactured netting.

This classification also includes the *cutting and laminating* of styrofoam, polyethylene foam and other flexible "foam rubber" materials to make products such as, but not limited to, mattress pads, cushions, contour pillows, automobile seats, packaging materials, padding and pads for sports equipment. Other products *could be* contemplated in this classification as long as the materials, machinery and processes used in the manufacture of those products are similar to those of employers subject to this classification.

This classification excludes establishments engaged in the manufacture of miscellaneous textile soft goods which are to be reported separately in classification 3802 and establishments engaged in the molding and mixing of rubber, plastic or graphite goods, which are to be reported separately in the classification applicable to the work being performed.

3708-40 Bag or sack-industrial size, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of industrial size bags or sacks which are not covered by another classification (N.O.C.). These types of bags are used for packaging items in bulk, such as, but not limited to, flour, sugar, salt, meat products, fruits and vegetables, fertilizer, building materials, or coal. Raw materials include ink, strong thread, rope drawstrings, and fabric such as, but not limited to, cotton, nylon, woven polypropylene, burlap, or gunny which is generally received in bales. Baled fabric is opened on baler machinery, sewn into continuous lengths, then wound onto cores on a roll-up machine. The fabric is fed through a winder which pulls it straight, then may be run through print presses where logos, brand names, or designs are applied. The lengths are stacked on long cutting tables and cut with hand or power cutters to desired bag size. The sides and bottoms are sewn together inside out, then hem the open end. The bags are turned right side out on turning machines and drawstrings may be inserted in the hemmed edge. Finished bags are bundled into bales with strapping machines and prepared for shipping.

This classification excludes establishments engaged in the manufacture of small bags, packs, picnic bags or others generally carried on the person, which are to be reported separately in classification 3802; establishments engaged in the manufacture of plastic bags which are to be reported separately in classification 3510; and establishments engaged in the manufacture of paper bags which are to be reported separately in classification 6908.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-604, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-604, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-604, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-604, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-604, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-604, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-604, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-604, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-604, filed 11/9/73, effective 1/1/74.]

WAC 296-17-606 Classification 3802.

3802-13 Handbag or pack: Manufacturing

Applies to establishments engaged in the manufacture of a variety of bags on a mass production or quantity basis. Types of bags include, but are not limited to, handbags, backpacks, fanny packs, picnic bags, softside luggage, and other bags normally carried on the person, and such items as literature or document pockets used in airplanes or automobiles. The screen printing or embroidering of the manufacturers' own products is included in this classification when performed by employees of an employer having operations subject to this classification. Materials include, but are not limited to, natural or synthetic fabric, leather, webbing or strapping for handles, buttons, hooks, buckles, Velcro, and other sewing notions purchased from outside sources. Operations include cutting to size or pattern, hand or machine sewing, finishing, labeling, pressing. Tools and equipment include hand or power cutting tools, clicker die cutters, sewing machines that perform a variety of functions, eyelet punchers, and household irons.

This classification excludes establishments engaged in the manufacture of industrial bags from natural or synthetic cloth used to package commodities such as bulk flour, sugar, produce, fertilizer, building materials, which are to be reported separately in classification 3708; establishments engaged in the manufacture of paper bags which are to be reported separately in classification 6908; establishments engaged in the manufacture of plastic bags which are to be reported separately in classification 3510; and establishments engaged in the manufacture of hard sided luggage or carrying cases which are to be reported separately in classification 3708.

3802-28 Millinery: Manufacturing; Artificial feather or flower, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of hats made of felt, wool, or other textiles, fur, or leather received from outside sources. Other materials received from outside sources include woven hat bodies, braided straw, sweatbands, linings, rims or brims, ribbons, artificial flowers, feathers, or other trimmings. For fabric hats, fabric is cut to standard hat sizes, sewn, steamed on molds or blocked in hydraulic presses, and trimmings attached. For straw hats, straw stripping is roughly sewn into crowns and brims and stitched to the woven straw body. Finishing operations involve sizing, hand blocking, iron and machine blocking in hydraulic presses, then hand sewing bands and trimming onto them. For felt hats, bodies are steamed, sized, shaped, ironed or press blocked under hydraulic presses; trims are usually

sewn on by hand. This classification also applies to establishments engaged in the manufacture of artificial feathers or flowers whose operations are not covered by another classification. Crepe paper, fabric, covered paper stakes, glue, and wire are received from outside sources. Paper or fabric is cut, hand rolled and assembled with wire to form the product.

This classification excludes establishments engaged in the manufacture of hats knitted to form on knitting machines which are to be reported separately in classification 3802-42 and establishments engaged in the dressing of fur or the tanning of leather which are to be reported separately in classification 4301.

3802-29 Wig: Manufacturing

Applies to establishments engaged in the manufacture of wigs and hair pieces made from real hair or synthetic hair. Human hair is usually purchased from beauty shops. After being washed in hot disinfectant, hair is dried in ovens. The strands are bleached in peroxide or ammonia, then colored with dyes to desired shades. Strands are secured to webbed caps with sewing machines or woven into the cap and cemented by hand. The final steps include clipping, curling, and styling. Materials include human hair, synthetic hair, disinfectants, adhesives and webbing fabrics. Tools and equipment include, but are not limited to, scissors, combs, brushes, curling irons, washing, bleaching and dying vats, drying ovens, and sewing machines.

3802-34 Screen printing of cloth or garments

Applies to establishments that provide screen printing services to others on cloth items such as, but not limited to, shirts, jackets, caps, and aprons. Most screen printing establishments display a limited quantity of garments as samples from which customers can order to outfit a team, club, or other group. The screen print shop may order the garments from their suppliers, perform the screen printing, and sell the garments to their customers, or the customers may provide their own garments. However, the principal business operation is the *service of screen printing*. Screen printing of individual garments may be done by hand or with a machine. Screen printing businesses will create designs in their art department, or customers can furnish their own design. The process begins with the transfer of a design onto a framed silk screen. A light-sensitive material is coated over the silk screen, then exposed to light. The screens are placed on a multiport machine with a number of press boards onto which garments, such as shirts, jackets, hats, aprons are loaded at one time. One color of ink is squeezed over the screen and as the machine revolves, the color for that portion of the design is applied to each garment. When the first color of the design is applied, garments move on a conveyor through a dryer oven to set the ink. This process is repeated with other colors until the complete design is reproduced on each garment. Screens are washed and cleaned so they can be reused. To screen print designs on lengths of cloth, the process is similar, but machinery for this type of application resembles commercial printing presses used in print shops. Materials include art supplies, colored ink, paint thinners, cleaning solvents. Tools and equipment include, but are not limited to, ink dispensers and squeegees, hand cutting tools, frames and screens, manual and automatic presses, dryer ovens with conveyors, drying racks, pressure spray washer units or sinks, and work tables.

Special notes: The screen printing of a manufacturer's product, when done as part of the manufacturing process by employees of the manufacturer, is included in the classification applicable to the product being produced.

Establishments in classification 6305 that are primarily engaged in the retail sale of clothing such as tee shirts, athletic sweat suits, or hats, may custom screen print or apply iron-on transfers on individual garments sold. Individualized printing or application of transfers is an incidental part of the sales operation and is included in the store classification.

Wholesale distributors of clothing or cloth goods who perform *incidental* screen printing on a small portion of their own product are to be reported separately in classification 6407. Care must be taken when considering classification 6407 to ensure that the nature of the business is the wholesale operation, not a screen print service, and that screen printing is only incidental to the sales operation.

3802-37 Hand carved or inlaid rug: Manufacturing

Applies to establishments engaged in the manufacture of custom-designed inlaid or hand carved rugs or carpets from carpeting purchased from outside sources. These are usually small businesses whose primary customers are interior designers or architects who want one-of-a-kind rugs to complement the design of a room. The designer pieces can be installed as wall-to-wall carpets or used as area rugs or wall hangings. Materials include, but are not limited to, pattern paper, netting, monk cloth, binding or fusing tape, fringed edging, carpet rolls, latex glue, and thread. Tools and equipment include small cutting tools such as hot knives, tracing wheels, rulers, glue guns, air spray guns, seamers for attaching the metallic tape, carpet carvers, and sewing machines. Carpet carvers resemble a household canister vacuum cleaner. A suction hose joins the carving blades to the canister so the fibers are vacuumed as they are cut.

Inlaid: First, a design is drawn onto pattern paper, then traced onto a piece of carpet with a tracing wheel. Powder rubbed across the paper goes through the perforations to form the design on the carpet. This step is repeated for each different colored piece in the design. The complete design is also cut out of the main carpet piece. The pattern pieces are cut out with a hot knife and placed into the main carpet backing piece which will become the finished rug. The pieces are glued to the backing with fusing tape or joined with metallic seaming tape. (Carpet designers refer to this as quilting.) Hand carving (clipping around the edges of the design with the carpet carver) adds dimension. Netting is attached with latex to the back side of the design to secure it. Monk cloth or similar fabric is applied as a backing.

Hand Carved: The pattern is transferred directly onto the main carpet piece and carved along the edges of the design to give it dimension.

This classification excludes establishments engaged in the manufacture of carpets or rugs by tufting or weaving which are to be reported separately in classification 3708 and establishments engaged in the installation of carpets which are to be reported separately in classification 0502.

3802-38 Embroidery services; lace: Manufacturing

Applies to establishments that provide embroidery services to others on cloth items such as, but not limited to, shirts, jackets, caps, aprons, and patches. Most embroidery establishments display a limited quantity of garments as samples from which customers can order to outfit a team, club, or other group. The embroidery shop may order the garments from their suppliers, perform the embroidery, and sell the garments to their customers, or the customers may provide their own garments. Their principal business operation, however, is the embroidery service. Paper templates, computer tapes, natural or synthetic thread, backing materials, fabrics for patches, are received from outside sources. Designs or logos are punched onto paper strips. The strips are fed through the embroidery machines which simultaneously stitch the design onto numerous garments or cloth items which have been positioned on the machine. In computerized machines, the design is programmed onto paper computer tapes which are placed in the embroidery machine instead of the paper strips. The rest of the operations are the same. To make patches, the design is embroidered numerous times on a length of fabric. Individual patches are cut out and the edges finished on a serger sewing machine. This classification also applies to establishments engaged in the manufacture of lace. Natural or synthetic threads are received in skeins from outside sources. The thread is wound upon spools and bobbins which are placed onto the shuttles of the looms. The designs in the lace are created by various harness and shuttle movements of the loom, controlled electronically or by perforated pattern cards. After removal from the loom, the lace is inspected, mended by hand or sewing machine if needed, washed, bleached, dried, trimmed, starched, and ironed.

Special notes: The embroidery of a manufacturer's own product, when done as part of the manufacturing process by employees of the manufacturer, is to be included in the classification applicable to the garment or product being made.

Establishments in classification 6305 who are primarily engaged in the retail sale of clothing such as tee shirts, athletic sweat suits, hats, may embroider designs or lettering on individual garments sold. Individualized embroidery is an incidental part of the sales operation and is included in the store classification.

Wholesale distributors of clothing or cloth goods who perform *incidental* embroidery on a small portion of their own product are to be reported separately in classification 6407. Care must be taken when considering classification 6407 to ensure that the nature of the business is the wholesale operation, not an embroidery service, and that embroidery is only incidental to the sales operation.

3802-39 Household furnishings: Manufacturing

Applies to establishments engaged in the manufacture of household furnishings such as, but not limited to, draperies, pillows and cushions, futons, sleeping bags or comforters. Businesses that make draperies may make other window treatments such as swags, valances, cornice boards, pull-down roller shades (window blinds) and other accessory items such as, but not limited to, throw pillows, and slip covers. If the window coverings are custom made, the shop usually includes a showroom displaying samples of drapery fabric, drapery rods, window coverings, accessories, floor coverings, wall paper or other household furnishings. These accessory items are not usually stocked, but are obtained from suppliers or manufacturers as customers order them. The sale of these items by establishments engaged in the manufacture of household furnishings is included in this classification. A separate store classification is not applicable in these situations. Draperies and curtains are cut to size, pleated, sewn, and finished by steaming or ironing. Vinyl pull-down shades or blinds are cut to size; one end is stapled to a wooden roller, then the shade is wound around the roller. The other end is creased and stitched to form a hem into which a wood slat is placed to give the blind a solid edge. Pulls, tassels, fringes, or other trims are attached. Sleeping bags, comforters, futons, and pillows are cut, sewn, and stuffed with padding materials purchased elsewhere. This classification also includes the manufacture of lamp shades. Plain or pleated fabric or laminated parchment and metal frames are purchased from outside sources. Material is cut to pattern, then attached to frames by gluing or sewing bindings around the frame and fabric. Materials include, but are not limited to, various fabrics, vinyl-coated cloth, transparent vinyl, parchment, linings, stuffings, trims, drapery hooks, rods, wooden rollers and slats, pulls or handles, hinges, wire frames for lamp shades, and sewing notions which are purchased from outside sources. Tools and machinery include scissors or other hand or power cutting tools, irons, sewing machines that perform a variety of functions such as straight stitching, hemming, serging, pleating, or tacking, drapery-folding devices, lighted surface to inspect cloth for flaws prior to cutting draperies, work tables for cutting or with a padded surface for ironing, pressing machines or irons. Drapery manufacturers may have a jig saw, saber saw or miter saw for the incidental cutting of cornice boards which is included in this classification.

This classification excludes establishments engaged in the manufacture of batting, wadding, or waste which are to be reported separately in classification 3708 and establishments engaged in the installation of draperies which are to be reported separately in classification 0607.

3802-40 Garments, slippers, accessories, miscellaneous soft goods, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of garments, wet suits, accessories, slippers, and miscellaneous soft goods not covered by another classification (N.O.C.), including, but not limited to, tie downs or animal restraints made from fabric strapping, art and craft or novelty items, stuffed toys, award ribbons, medical supports, umbrellas, and parachutes on a mass production or quantity basis. The production involves cutting to size or pattern, sewing, gluing, fabric welding, inserting stuffing materials, labeling, pressing, inspecting and packaging. Screen printing or embroidering of the manufacturer's own products, and finishing processes such as dyeing or bleaching is included in this classification when performed by employees of an employer having operations subject to this classification. Manufacture of these items often includes primarily hand work or hand work incidental to machine operations. Items are produced from all types of natural or synthetic cloth or fibers; some of the trims or patches may be leather or other pliable materials. Materials include, but are not limited to, natural fabrics, synthetic fabrics such as neoprene, fur, leather, strapping or webbing,

yarn, sewing notions, glue, decorative trims, ribbons or patches, imitation eyes for toys, stuffing materials, buttons, buckles, hooks, or handles which are purchased from outside sources. Tools include household irons, scissors or cutting wheels, measuring tapes, tracing wheels, brushes, power cutting tools (some types have hot blades or wires to seal frayed edges of cut pieces), glue guns, staplers, and clamps. Machinery includes, but is not limited to, cutting tables, sewing machines that perform a variety of functions such as straight or zigzag stitching, pleating, tacking or serging, clicker die cutters, iron presses, packaging equipment and various tabletop or foot operated devices such as eyelet punchers, button covering machines, and hot-stamping foil presses.

This classification excludes establishments engaged in the manufacture of batting, wadding, or waste which are to be reported separately in classification 3708; establishments engaged in manufacturing operations using large factory machinery that performs functions such as, but not limited to, winding/rewinding, blowing, spinning, twisting, braiding, weaving, picking, tufting, quilting, shredding, or grinding, which are to be reported separately in classification 3708; and establishments engaged in the tanning of leather or dressing of fur which are to be reported separately in classification 4301.

3802-41 Gloves, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of gloves not covered by another classification (N.O.C.) made of fabric or leather on a mass production or quantity basis. Fabric, leather, and sewing notions are purchased from outside sources. Manufacturers may quilt lining materials to the glove fabric on quilting machines. Glove pieces are cut from numerous layers of fabric or leather with a die cutter; printing of a logo or brand name may be applied to pieces prior to stitching. Seamstresses sew the pieces together inside out, adding cuffs or trims. After stitching, each finger is individually turned right-side out on a turner which is a table-mounted device with a vertically moving rod. Gloves are then placed onto heated, hand-shaped molds for steaming and shaping.

This classification excludes establishments engaged in the manufacture of gloves knitted to form on knitting machines which are to be reported separately in classification 3802-42; establishments engaged in the manufacture of rubber gloves made by molding or mixing rubber which are to be reported separately in classification 3513; and establishments engaged in the tanning of leather which are to be reported separately in classification 4301.

3802-42 Knitted fabric or garments or hosiery: Manufacturing

Applies to establishments engaged in the fabrication of knitted cloth, the subsequent manufacture of garments from the knitted cloth, and the manufacture of gloves, mittens, and hats knitted to form on knitting machines on a mass production or quantity basis. Natural or synthetic yarn (also referred to as thread), buttons or other fasteners are received from outside sources. The knit cloth is produced on looms either mechanically or electronically controlled. Circular or flat knitting machines (some of which resemble sewing machines) are also used. The manufacturer of the knitted cloth may make wearing apparel from it, or may sell the knitted cloth to other manufacturers. Garments, such as sweaters, may be knitted to form, or pieces may be cut from the cloth and sewn together. Gloves or mittens are knitted to basic shapes on special machines. Tips of fingers are sewn closed, the glove is turned right side out, then shaped and steamed on electrically heated forms. This classification also applies to the manufacture of hosiery on a mass production or quantity basis. Skeins of natural or synthetic yarn, generally dyed, are received from outside sources. The yarn is unwound onto bobbins or cones, then placed in small circular automatic knitting machines which form the leg and heel. The leg/heel pieces are sewn into a continuous piece, then toes and tops added with looper machines. Hosiery is then washed, dried, shaped. This classification also applies to establishments that perform finishing operations on hosiery that is manufactured by others.

Special note: The looms and knitting machines used to make knitted cloth are generally smaller than the weaving and spinning machines used for the manufacture of woven textile fabrics which are formed into long, continuous lengths and sold in large bolts to cloth goods manufacturers.

3802-43 Leather goods, N.O.C.: Manufacture or repair

Applies to establishments engaged in the manufacture or repair of leather goods not covered by another classification (N.O.C.) including, but not limited to, belts, tack, holsters and other gun carrying accessories, knife sheaths, sports balls, or belts. Products manufactured in this classification can usually be worn or carried on the person and are often made individually. Tanned leather or imitation leather, glue, buckles, hooks, snaps and other fasteners, are purchased from outside sources. Leather may be skived (split) to desired thickness. Items are cut out on small die cutters or by hand, and the edges sanded and smoothed. Depending on the item being made, the leather is bent into shape, glued or sewn either by machine or hand. Imitation leather or vinyl products are sometimes joined by heat sealing instead of gluing or sewing. Items may be dyed, which involves dipping in vats of dye for about 15 or 20 minutes, hanging until dry, then rubbing with rags. Guns are placed inside custom-made holsters and laid in a forming press to form the leather around the gun for a precise fit. Next, items are placed in dryers to dry and cure; then snaps, grommets or other finishing pieces are attached with hand tools. Tools and equipment include cutting blades, edge beveling tools, mallets, snap setters, and other hand tools, die cutters, sanders, sewing machines, forming presses, and small dryers. This classification also applies to establishments engaged in the manufacture and repair of sports balls such as footballs, soccer balls, and basketballs. Leather or vinyl, lining material, bladders (deflated balloon shapes made of synthetic rubber material with valves inserted), twine, thread, foil ribbon, paint, spray cleaners are received from outside sources. Pieces are cut from leather or vinyl on die cutters, sewn together inside out forming a shell, then eyelets are inserted with eyelet punches. Logos or names may be stamped on with a hot foil stamping machine. The seams are pounded out with mallets to smooth them, then the shell is turned right side out on table-mounted turners. The shells are placed onto table-mounted, ball-shaped molds, the bladders inserted, and air blown into the bladders with air compressors, forming the balls. The balls are placed onto

holders, laced and closed with twine. Further designs may be applied with paint; balls are cleaned with a spray cleaner before packaging.

This classification excludes the tanning of leather which is to be reported separately in classification 4301 and the manufacture of bladders by rubber mixing or molding which is to be reported separately in classification 3513.

3802-44 Shoe or boot: Manufacturing or repair

Applies to establishments engaged in the manufacture of boots or shoes from raw materials such as leather, imitation leather, lining materials, rubber heels and soles, padding, thread and string, eyelets, tacks, buckles, rubber cement, dyes, waxes and polishes purchased from outside sources. Shoe or boot manufacturers may purchase shoe parts already cut to pattern, or may cut out their own patterns either by hand or on small dies. There are only a few shoemakers in Washington, most of whom make custom, hand-crafted boots or shoes. Operations include measuring feet to make molds or patterns, sewing by hand or machine, gluing, attaching eyelets or studs, tacking the upper pieces to the soles and heels, smoothing edges with grinders, dyeing, waxing, buffing, brushing and cleaning. Tools and equipment include tack hammers, awls, lasts (foot forms), hand cutting and punching tools, sewing machines, shoe jacks, foot-operated eyelet punching presses, sole stitchers (to stitch soles onto upper pieces), belt sanders and brush finishers. This classification also applies to shoe repair shops which use the same type of materials, tools and equipment used to make shoes and boots. Most shoe repair shops sell shoe accessories such as laces, insoles, polishes, which are usually displayed at the front of the shop; the sale of those items is included within the scope of this classification. The shops usually employ only one or two persons and are often located in malls or strip malls.

This classification excludes the manufacture of molded rubber shoe parts such as heels, soles, which is to be reported separately in classification 3513; establishments engaged in tanning leather which are to be reported separately in classification 4301; and the manufacture of any other materials used in making shoes or boots which is to be reported separately as applicable.

3802-45 Rubber or pliable goods: Manufacturing by cutting or gluing

Applies to establishments engaged in the manufacture of rubber or pliable goods from premanufactured materials by hand cutting, die cutting, gluing, or heat bonding. Items manufactured in this classification include, but are not limited to, gaskets, seals, bindings for skis, grips for pens or handle bars on bicycles or motorcycles. Raw materials which are lightweight, flexible and generally do not exceed about 3/8" thickness or 1" in diameter, include, but are not limited to, neoprene (a man-made rubber), cork, or other compressed sheets made of materials such as felt, paper, foam, plastic, graphite, Teflon, strips of extruded rubber. Many of the products are made simply by die cutting flat materials into the desired shapes. Other products, such as O-rings, are made by cutting lengths of extruded rubber and joining the ends by gluing or heat-bonding them together to form a circle. Grips for pens or handle bars can be made by cutting rubber tubing to length and grinding the ends for a smooth finish.

This classification excludes establishments engaged in the manufacture of rubber products by molding processes which are to be reported separately in classification 3513.

3802-46 Tent, tarp, awning or shade, boat cover or sail: Manufacturing

Applies to establishments engaged in the manufacture or repair of tents, awnings or outside window shades, boat or automobile tops and covers, sails, fruit picking bags, or similar items made from canvas, duck and synthetic water resistant fabrics. Other materials purchased from outside sources include grommets, hooks, tie rope, netting, binding, trimmings, strapping, pipe or tubing, and metal tops for fruit picking bags. Operations include cutting, sewing or fabric welding which joins pieces by heat-sealing the edges, attaching grommets, and bending pipe or rods for frames. Tools and equipment include hand cutting or punching tools, powered material cutters, sewing machines, grommet punchers, pipe cutters and benders, and staplers.

This classification excludes establishments engaged in the welding of metal awning frames or supports and establishments engaged in the manufacture of metal awnings which are to be reported separately in the applicable metal goods classification; and the installation of any product manufactured in this classification which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-606, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-606, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-606, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-606, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-606, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-606, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-606, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-606, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-606, filed 11/9/73, effective 1/1/74.]

WAC 296-17-612 Classification 3808.

3808-00 Upholstery work, N.O.C.

Applies to establishments engaged in upholstery work not covered by another classification (N.O.C.). Upholstery work is the custom finishing of furniture and vehicle interiors with stuffing, cushioning, springs, and covering material. Some sewing is usually necessary. Items upholstered include, but are not limited to, chairs, sofas, foot stools, caskets, and seats for aircraft, automobiles, boats or other recreational vehicles (RVs). Upholstery work becomes part of the furniture or vehicle as opposed to removable pillows or cushions which are not permanently attached to the structure. Upholstery shops also perform refurbishing or renovation work which involves removing the old materials, replacing springs, stuffing or cushioning as necessary, and covering with new material. They might replace a vinyl top, trim molding, striping tape, or door edge guards on a car or boat which is included in this classification when done by employees of an employer subject to this classification. Customers usually bring the furniture or vehicle to the shop for upholstery work. Upholstery shops in this classification may sell some fabric as an incidental part of their operation; however, if any upholstery work is done at the shop, the entire operation is to be reported separately in classification 3808. This classifica-

tion includes businesses which produce furniture entirely from foam rubber or other cushioning or stuffing, springs, and a covering material.

This classification excludes establishments engaged in the manufacture of mattresses which are to be reported separately in classification 3708; establishments engaged in making "throw pillows or cushions" which are to be reported separately in classification 3802; and establishments engaged in selling upholstery materials (but do no upholstery work) which are to be reported separately in classification 6406.

Special note: Classification 3808-00 may be assigned to physically separated upholstery departments of furniture or casket manufacturers, and automobile, aircraft, or RV manufacturers provided the conditions set forth in the general reporting rule covering the division of worker hours have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-612, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-612, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-612, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.020(1). 83-05-019 (Order 83-5), § 296-17-612, filed 2/9/83; Order 75-28, § 296-17-612, filed 8/29/75, effective 10/1/75; Order 73-22, § 296-17-612, filed 11/9/73, effective 1/1/74.]

WAC 296-17-614 Classification 3901.

3901-00 Bakeries - retail

Applies to establishments engaged in the baking of assorted goods such as, but not limited to, breads, cakes, pies, and pastries for retail sales to walk-in customers. This classification includes "deli" sections in retail bakeries where bakery products, and items such as soups, salads, sandwiches and beverages, are available for on-premises consumption. This classification also contemplates the *occasional* delivery of bakery items such as wedding cakes.

This classification excludes commercial wholesale bakeries that bake products for sale to trade customers such as supermarkets, restaurants, and distributors which are to be reported separately in classification 3906, and specialty bake shops that produce single product lines such as cookies and donuts, which are to be reported separately in classification 3901-01.

3901-01 Bakeries - retail - specialty shops

Applies to establishments engaged in operating specialty bake shops where products are sold exclusively to walk-in retail customers. A specialty bake shop is an establishment that makes and sells a single product line such as cookies, donuts, pies, or bagels to customers for consumption on or away from the premises. This classification includes related sales of beverages, as well as the *occasional* delivery of baked goods.

This classification excludes commercial wholesale bakeries that bake products for sale to trade customers such as supermarkets, restaurants, and distributors which are to be reported separately in classification 3906, and retail bakeries engaged in the baking of assorted goods such as breads, cakes, pies, and pastries, for retail sales to walk-in customers which are to be reported separately in classification 3901-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-614, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-614, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-614, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-614, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-614, filed 11/30/79, effective 1/1/80; Order 73-22, § 296-17-614, filed 11/9/73, effective 1/1/74.]

WAC 296-17-615 Classification 3902.

3902-00 Fruit and vegetable: Cannery and freezer operations

Applies to establishments engaged in fruit and vegetable canning or freezing operations for wholesale customers. Operations contemplated by this classification include the receipt of fruit and vegetables directly from growers or dealers, preparing produce for canning by removing foreign materials such as leaves or weeds, washing, sterilizing, grading, peeling, slicing, coring, blanching, scalding and precooking, premeasuring, mixing them in a hopper with sugar or other ingredients, and further processing into canned or frozen products. Pea vining, when performed by employees of a cannery, is also included in this classification.

This classification excludes establishments engaged in evaporating, preserving or dehydrating fruits and vegetables which are to be reported separately in classification 3902-01; establishments engaged in manufacturing fruit juice, cider, jam or jelly which are to be reported separately in classification 3902-02; establishments engaged in packing *fresh* vegetables and fruits which are to be reported separately in classification 2104; and pea vining when done by employees of farm operations or farm labor contractors which is to be reported separately in the applicable farm classification.

3902-01 Fruit and vegetable: Evaporating, preserving or dehydrating

Applies to establishments engaged in evaporating, preserving, or dehydrating fruits and vegetables for wholesale customers. Operations contemplated by this classification include the receipt of fruit and vegetables directly from growers or dealers, washing, peeling, cooking, pressing fruits and vegetables by machine, adding preservatives and congealants, pasteurizing, then dehydrating, drying, or evaporating to remove the moisture which preserves the fruits and vegetables and leaves only the dry, solid portion. Finished products are packaged in cans, plastic bags, or boxes for shipping.

This classification excludes establishments engaged in canning or freezing of fruits and vegetables which are to be reported separately in classification 3902-00; establishments engaged in manufacturing fruit juice, cider, jam or jelly which are to be reported separately in classification 3902-02; establishments engaged in packing fresh vegetables and fruits which are to be reported separately in classification 2104; and farm operations which are to be reported separately in the applicable farm classification.

3902-02 Fruit syrup or juice, cider, jam or jelly: Manufacturing

Applies to establishments engaged in the manufacture of fruit syrup, juice, cider, jam, or jelly. Operations contemplated by this classification include the receipt of fruit directly from growers or dealers, washing, peeling, and cooking the fruit, extracting juice and separating seeds from pulp with fruit presses or separators, adding sugars, congealants and preservatives, pasteurizing, blending juices to produce a

variety of flavors, and further processing to produce bottled, canned, or concentrate products.

This classification excludes establishments engaged in canning or freezing of fruits and vegetables which are to be reported separately in classification 3902-00; establishments engaged in evaporating, preserving or dehydrating fruits and vegetables which are to be reported separately in classification 3902-01; and farm operations which are to be reported separately in the applicable farm classification.

3902-11 Chocolate, cocoa, corn products: Manufacturing

Applies to establishments engaged in the manufacture of cocoa or chocolate such as Dutch or sweet chocolate or of corn products such as, but not limited to, tortillas. Operations contemplated by this classification include receipt of corn and cocoa beans from growers or dealers, processing operations, testing, packaging and shipping. Foreign matter is removed from the cocoa beans and they are sorted, divided, cleaned, and roasted in ovens. Shells are cracked, usually by machines, and the beans examined to ensure quality. Depending on the products being manufactured, beans may be pasteurized, ground, further dried, mixed with chocolate liquor, sugar, powdered milk, cocoa butter, or potassium solutions to make into finished products. Depending on the corn product being made, ingredients are pressed, kneaded, cut, shaped or flattened, and baked or cooked.

This classification excludes establishments engaged in the manufacture of crackers, potato chips, ravioli, tamale, and pasta, or chocolate candy and confections which are to be reported separately in classification 3906, and farm operations which are to be reported separately in the applicable farm classification.

3902-12 Baking powder, dextrine, glucose and starch: Manufacturing

Applies to establishments engaged in the manufacture of baking powder, dextrine, glucose and starch. Operations contemplated by this classification include the receipt of vegetables and grains, such as, but not limited to, potatoes, corn, and wheat from growers or dealers, processing operations, testing, storing finished products in storage tanks, packaging into drums or cans, and shipping. Vegetables or grains are cleaned, sorted, and foreign matter removed. They are dumped onto conveyors and transported to grinding machines where they are ground into a starch paste. Water may be added to make liquid starch or starch milk or dryers may remove excess moisture. Starch blends may be made from raw starch suspensions using chemical solutions. Shakers remove bran, gluten or other particles from the starch suspension. Dextrine is made by further mixing the starch with dextrine paste, adding chemicals, cooking and stirring until the starch is converted to dextrine. Baking powder is made by mixing baking soda, starch, and an acid compound such as cream of tartar.

This classification excludes establishments engaged in the manufacture of food sundries not covered by another classification which are to be reported separately in classification 3902-14 and farm operations which are to be reported separately in the applicable farm classification.

3902-13 Nut shelling, egg breaking, coconut shredding and peanut handling

Applies to establishments engaged in nut shelling, egg breaking, coconut shredding, and peanut handling. Nuts are received from suppliers in bulk and placed into machinery which cracks shells and separates broken shells from the nut meat. Another machine sorts whole nut meats from those that are chipped, broken, or contaminated. At each machine, nuts are examined for rejects, and foreign matter is removed with a vacuum hose or by hand. They may be chopped, sliced, or left whole, then poured from the machines into sacks or containers. The meats of certain nuts, such as almonds, may be ground into meal, then canned for shipment. This classification also includes the grading and polishing of nuts, and shredding of coconuts. Egg breaking machines break eggs and separate the yolk from the white. They are observed for color, quantity, and clarity; inferior yolks or whites are discarded prior to being automatically dropped onto separator trays with individual cups. Eggs may then be mixed with water, pasteurized or dried prior to packaging.

This classification excludes establishments engaged in the manufacture of oils which are to be reported separately in classification 3902-27 and establishments engaged in the manufacture of food sundries which are to be reported separately in classification 3902-14.

3902-14 Food sundries, N.O.C.: Manufacturing or processing

Applies to establishments engaged in the manufacture of a variety of miscellaneous food products not covered by another classification (N.O.C.). Products include, but are not limited to, imitation crab, spices, peanut butter, condiments, salsa, salad dressings, mayonnaise, soups, tofu, instant potatoes and other product blends. This classification also applies to the grinding and roasting of coffee beans. Operations contemplated by this classification include the receipt of raw ingredients from growers or dealers, processing operations, testing, quality control, laboratory operations, packaging and shipping. Individual processes, which vary depending on the product being manufactured, include, but are not limited to, cleaning, dividing, grinding, mixing, blending with other ingredients, cooking, cooling, dividing again into desired portions, and packaging. The products are packaged in plastic bags, bottles, or cans, usually by machine. Some products require vacuum sealing, pasteurizing, or freezing. This classification also includes the preparation of ready-to-eat salads, sandwiches, and similar food items for convenience stores and vending machines.

This classification excludes establishments engaged in the manufacture of crackers, potato chips, ravioli, tamale, pasta, cough drops, confectionery, and chewing gum which are to be reported separately in classification 3906 and farm operations which are to be reported separately in the applicable farm classification.

3902-15 Pickles and sauerkraut: Manufacturing

Applies to establishments engaged in the manufacture of pickles and sauerkraut. Operations contemplated by this classification include the receipt of produce from growers or dealers, processing operations, testing, laboratory operations, packaging and shipping. Produce, such as cucumbers and

cabbage, is cleaned, cut, chopped and placed in barrels, vats, or tanks of brine (a mixture of salt, sugar, spices, vinegar) until cured. At the end of curing period, product may be packed into glass jars, plastic bags, or cans. This classification also applies to the pickling of fruits or vegetables such as, but not limited to, tomatoes, peppers, and asparagus.

This classification excludes establishments engaged in canning or freezing of fruits and vegetables which are to be reported separately in classification 3902-00; establishments engaged in evaporating, preserving or dehydrating fruits and vegetables which are to be reported separately in classification 3902-01; establishments engaged in packing fresh vegetables and fruits which are to be reported separately in classification 2104; and farm operations which are to be reported separately in the applicable farm classification.

3902-17 Pet food: Manufacturing

Applies to establishments engaged in the manufacture of canned pet foods. Operations contemplated by this classification include the receipt of raw ingredients, processing operations, packaging and shipping. After bones and foreign matter are removed, raw ingredients are cleaned and ground. Depending on the product, various ingredients such as, but not limited to, animal meat and fat, fish by-products, cornmeal, soybean meal, ground wheat, rice, poultry, yeast, whey, salt, acids, chemicals, minerals, vitamins, water, or oil are mixed in large vats either by machine or by hand. Mixture is baked, dried, and shaped or packed into cans.

This classification excludes establishments engaged in the manufacture of dry pet food which is to be reported separately in classification 2101 and farm operations which are to be reported separately in the applicable farm classification.

3902-24 Breakfast food: Manufacturing

Applies to establishments engaged in the manufacture of breakfast foods such as cereals or breakfast bars. Operations contemplated by this classification include the receipt of ingredients, processing operations, quality control, laboratory operations, packaging, and shipping. Flour, meal, or milled grains such as, but not limited to, corn, oats, barley, wheat, and nuts are mixed with other ingredients, formed into a dough, rolled out and extruded into flakes or other shapes. Pressure cylinders may be used to expand or puff whole grains. Cereals may be sifted through screens to check for size, color, and uniformity or otherwise tested for quality, then baked or dried in bulk prior to packaging.

This classification excludes establishments engaged in the manufacture of wholesale bakery goods which are to be reported separately in classification 3906; establishments engaged in milling or grinding operations which are to be reported separately in classification 2101; and farm operations which are to be reported separately in the applicable farm classification.

3902-26 Poultry canning and canneries, N.O.C.

Applies to establishments engaged in canning poultry or canning operations not covered by another classification (N.O.C.). Operations contemplated by this classification include the receipt of poultry or other products, processing operations, quality control, laboratory operations, packaging, and shipping. The process includes, but is not limited to, washing, cutting or chopping, and cooking poultry or other foods items. Preservatives or flavorings may be added before product is sealed in cans or jars.

This classification excludes establishments engaged in canning or freezing fruits or vegetables which are to be reported separately in classification 3902-00 and establishments engaged in canning or dehydrating meat products which are to be reported separately in classification 4301.

3902-27 Vegetable oil or butter substitutes: Manufacturing

Applies to establishments engaged in the manufacture of salad or vegetable oils, shortening, margarine or other butter substitutes. Operations contemplated by this classification include the receipt of seeds or beans from growers or through dealers, processing operations, quality control, laboratory operations, packaging and shipping. To make oils, soybeans, cottonseeds, safflower seeds, or shelled corn is cracked, ground, milled, steam cooked, and pressed to extract the oil. Depending on the product being made, other ingredients such as water, milk, powdered milk or salt may be blended with the oil, then heated, filtered, and filled into cans or bottles. To make shortening or butter substitutes, flavoring, catalytic agents, and chemicals are added to harden the oils; some products are kneaded to spread the coloring uniformly; then they are packaged in cans, plastic containers, or wrapped in plastic or foil. Machinery includes, but is not limited to, grinders, screens, presses, extractors, dryers, and conveyors.

This classification excludes establishments engaged in the manufacture of "real" butter which are to be reported separately in classification 4002 and farm operations which are to be reported separately in the applicable farm classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-615, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-615, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-615, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-615, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-615, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-615, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-615, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-615, filed 11/9/73, effective 1/1/74.]

WAC 296-17-616 Classification 3903.

3903-08 Sugar refining; molasses and syrup, N.O.C.: Manufacturing

Applies to establishments engaged in processing (milling) sugar cane and sugar beets into various forms of powdered and granulated sugar, and the manufacture of molasses and sugar syrups not covered by another classification (N.O.C.). Operations contemplated by this classification include the receipt of sugar cane or sugar beets directly from growers or dealers, crushing or rolling cane to obtain the juice or washing, slicing, and cooking the beets to obtain the juice, evaporating the juice to produce a crystallized substance, and further processing to produce the final product such as granular sugar, white powdered sugar, and brown sugar. Common by-products of a sugar refining operation are molasses and sugar syrups. In some cases an establishment may produce only the sugar syrup and/or molasses, not the crystallized forms of sugar. This classification applies to all of the above operations as the processes to produce sugar

syrup and molasses products are similar to those used to produce crystallized sugar.

This classification excludes establishments engaged in the manufacture of fruit syrup, juice, cider, jam or jelly which are to be reported separately in classification 3902.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-616, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-616, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-616, filed 11/9/73, effective 1/1/74.]

WAC 296-17-618 Classification 3905.

3905-00 Restaurants, N.O.C.

Applies to establishments engaged in restaurant operations not covered by another classification (N.O.C.). These establishments are "traditional, family or full service" restaurants that provide sit-down services, or cafeteria or buffet style meals. This classification includes the preparation and service of food and beverages. Establishments in this classification may serve beer and wine; however, they are prohibited from selling hard liquor, cocktails, and mixed drinks that Class H restaurants sell. Typical occupations include, but are not limited to, hostesses, waiters, waitresses, cooks, busboys, dishwashers, cashiers, and managerial staff. This classification also includes the preparation of "take-out food" that customers pick up directly from the restaurant for consumption away from the premises and the operation of a card room in conjunction with the restaurant.

This classification excludes establishments engaged in operating Class H restaurants or lounges that sell hard liquor, cocktails, and mixed drinks which are to be reported separately in classification 3905-07 and catering services that are not part of the restaurant operation which are to be reported separately in classification 3909.

Special note: Traditional, family or full service restaurants are establishments where wait persons bring customers a menu, take orders, and deliver prepared meals to the customer's table or where customers choose from a variety of food items from a buffet or cafeteria style service. Such establishments will generally use nondisposable eating utensils and plates to serve food as opposed to throw away paper plates and plastic eating utensils. Care should be exercised when dealing with establishments that provide entertainment such as musicians, entertainers, disc jockeys or piano players who may be exempt from coverage as an independent contractor. Musicians or entertainers who are considered to be employees of a restaurant are to be reported separately in classification 6605.

3905-01 Food, drink, and candy vending concessionaires at theatres, parks, tracks, and exhibitions

Applies to establishments engaged in operating food, drink or candy concessions at ball parks, race tracks, theaters and exhibitions. This classification is applicable only to concession operations which are operated independent from the facility or event at which the concession service is being provided. These independent vendors selling food items are not employees of the facility or site where the event or exhibition is taking place. Vendors subject to this classification sell a variety of food, snack and beverage items from booths, mobile push carts, mobile stands, carrying boxes, or trays.

This classification excludes food and beverage operations (concession stands) operated in connection with an event or facility by employees of the event sponsor or facility operator which are to be reported separately in the classification applicable to the event or exhibition; street vendors or route food services which are to be reported separately in classification 1101; vendors of nonfood items which are to be reported separately in the applicable classification; and vending machine service companies that replenish food, snack and beverage products which are to be reported separately in classification 0606.

3905-03 Commissaries and restaurants with construction, erection, logging or mine operations

Applies to commissary or restaurant operations conducted *exclusively* in connection with a construction, erection, logging or mining camp operation. This classification is limited to food preparation services provided at a camp site or at a mess hall used to feed employees of the construction, logging, erection, or mining company. The foods prepared and served are not intended for, or offered to, the general public.

Special note: The purpose of this classification is to provide employees engaged in the food preparation activity with a classification representative of the work being performed, even though such activities may be occurring at or adjacent to the construction, logging, erection or mining site as provided for in the general reporting rule covering general inclusions.

3905-04 Eating establishments, N.O.C. such as public lunch counters in stores

Applies to establishments not covered by another classification (N.O.C.) engaged in operating lunch counters and restaurants within a retail store location. Use of this classification is limited to employees of an employer who also operates the retail store where the food service is located.

3905-06 Taverns

Applies to establishments engaged in the operation of a tavern. A tavern is primarily engaged in the sale of beer and wine for on-premises consumption, and may also provide a variety of foods ranging from peanuts and pretzels to hot food dishes. Typical occupations include, but are not limited to, bartenders, waiters, waitresses, cooks, busboys, dishwashers, and managerial staff. Beer may also be sold by the keg with the rental of necessary taps and pumps. This classification includes the operation of a "beer garden" at special events such as, but not limited to, fairs or race meets, and the operation of a card room in connection with the tavern.

This classification excludes restaurants with a Class H license that sell hard liquor which are to be reported separately in classification 3905-07.

Special note: Care should be exercised when dealing with establishments that provide entertainment such as musicians, entertainers, disc jockeys or piano players who may be exempt from coverage as an independent contractor. Musicians or entertainers who are considered to be employees of a tavern are to be reported separately in classification 6605.

3905-07 Class H restaurants

Applies to establishments engaged in the operation of a Class H restaurant. A Class H restaurant is defined as having a legal permit to offer the sales of hard liquor, mixed drinks,

and cocktails in connection with their food preparation and service. This classification includes the preparation and service of food and beverages at sit down restaurants and lounges. Such establishments have extensive cooking facilities and equipment to prepare full meals. Typical occupations covered by this classification include, but are not limited to, bartenders, hostesses, waiters, waitresses, valet parking attendants, cooks, busboys, dishwashers, cashiers, and managerial staff. This classification also includes the preparation of "take-out food" that customers pick up directly from the restaurant for consumption away from the premises and the operation of a card room in connection with the restaurant.

This classification excludes establishments engaged as a restaurant without a Class H license which are to be reported separately in classification 3905-00; taverns which are to be reported separately in classification 3905-06; catering services which are not part of a restaurant operation which are to be reported separately in classification 3909; musicians who are to be reported separately in classification 6605; and entertainers such as dancers who are to be reported separately in classification 6620.

Special note: Care should be exercised when dealing with establishments that provide entertainment such as musicians, entertainers, disc jockeys or piano players who may be exempt from coverage as an independent contractor. Musicians or entertainers who are considered to be employees of a restaurant are to be reported separately in classification 6605.

3905-08 Pizza parlors

Applies to establishments engaged in operating a pizza parlor or restaurant. Establishments subject to this classification specialize in the preparation and sales of pizza (but may also provide other foods) and beverages such as wine, beer, or soft drinks for on-premises consumption. Typical occupations include, but are not limited to, hostesses, waiters, waitresses, cooks, busboys, dishwasher, cashiers, and managerial staff. This classification also includes establishments that deliver pizza to customers, or where customers can pick up already prepared pizza at the shop, but where no customer seating is provided.

This classification excludes pizza parlors with a Class H license which are to be reported separately in classification 3905-07 and U-bake pizza operations which are to be reported separately in classification 6403.

Special note: Care should be exercised when dealing with establishments that provide entertainment such as musicians, entertainers, disc jockeys or piano players who may be exempt from coverage as an independent contractor. Musicians or entertainers who are considered to be employees of a pizza parlor are to be reported separately in classification 6605.

3905-09 Fast food drive-ins, N.O.C.

Applies to establishments engaged in the operation of fast food drive-ins or restaurants. These establishments serve easily prepared foods quickly and nonalcoholic beverages which can be eaten on the premises or picked up by customers at a counter or a drive through window. Fast food establishments offer a variety of menu items such as, but not limited to, hamburgers, french fries, tacos, sandwiches, fried chicken, hot dogs, fish and chips.

This classification excludes street vendors and/or route food services which are to be reported separately in classification 1101 and full service restaurants which are to be reported separately in classification 3905-00.

3905-11 Soft drink lounges

Applies to establishments engaged in operating soft drink lounges. These types of establishments may provide entertainment such as dancing for an adult audience or a place where youths under the age of 21 can dance or listen to music. These lounges do not sell alcoholic beverages. This classification includes the preparation and service of light snacks and hors d'oeuvres, such as chips, peanuts, pretzels or finger sandwiches.

This classification excludes entertainers such as exotic dancers who are to be reported separately in classification 6620 and musicians who are to be reported separately in classification 6605.

Special note: Care should be exercised when dealing with establishments that provide entertainment such as musicians, entertainers, disc jockeys or piano players who may be exempt from coverage as an independent contractor. Musicians or entertainers who are considered to be employees of a lounge are to be reported separately in classification 6605 or 6620 as applicable.

3905-12 Ice cream parlors

Applies to establishments engaged in the operation of an ice cream parlor or frozen yogurt shop. These specialty shops offer a limited menu, usually confined to ice cream and frozen yogurt offered in individual servings, various size containers, and specialty items. Special occasion ice cream cakes may be ordered and picked up at a later date by the customer. These establishments usually provide customer seating.

This classification excludes street vendors and/or route food services which are to be reported separately in classification 1101.

3905-13 Candy, nut, and popcorn retail stores with on-premises manufacturing

Applies to establishments engaged in operating candy, nut or popcorn stores where some or all the products sold are manufactured on the premises. Establishments in this classification may sell a variety of candies, nuts, or popcorn, or may specialize in one or two products. They may also sell their products in gift wrapped packages.

This classification excludes establishments engaged in selling candy, nuts, or popcorn, *that do not manufacture* any product on the premises, which are to be reported separately in classification 6406, and establishments primarily engaged in the wholesale manufacturing of candy which is to be reported separately in classification 3906.

3905-14 Espresso/coffee stands and carts

Applies to vendors operating espresso or coffee stands or carts. Products sold include, but are not limited to, coffee, espresso, lattes, Italian sodas, soft drinks, pastries and prepackaged items. These types of vendors *do not prepare food.* This classification is distinguishable from retail coffee, tea or spice stores in that coffee stands or carts in classification 3905 sell only ready-to-serve products; they do not sell packaged coffee, tea or spice items.

This classification excludes street vendors and/or route food services which are to be reported separately in classification 1101.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-618, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-618, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-618, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-618, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-618, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-618, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-618, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-618, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-618, filed 11/9/73, effective 1/1/74.]

WAC 296-17-61801 Classification 3906.

3906-00 Bakeries, N.O.C.

Applies to establishments engaged in the manufacture of baked goods not covered by another classification (N.O.C.) such as, but not limited to, bread, rolls, tarts, pies, cakes, cookies, bread stuffing and bread crumbs, for sale to supermarkets, restaurants, distributors, and other wholesale customers. Processes for making baked goods vary somewhat, but most are similar to that of baking bread. To make bread, ingredients such as, but not limited to, flour, water, salt, leavening, eggs, milk, sugar, shortening, and preservatives are mixed by machine or by hand and formed into dough. The dough is fed into a hopper which further kneads it and shapes it into a ball. Molders shape the dough balls into cylinders that are ready to be placed in pans. Automatic loaders move the pans through tunnel ovens. After baking, products are mechanically sliced and wrapped, then shipped to customers as quickly as possible due to the relatively short shelf life of baked goods. Machinery includes, but is not limited to, dough troughs, cake depositors, filler and icing machines, conveyors, deep fryers, bun machines, molders, ovens, mixers, flour dust collectors, and racks.

This classification excludes retail bakeries which are to be reported separately in classification 3901; route delivery drivers who are not employees of the bakery who are to be reported separately in classification 1101; and establishments engaged in the manufacture of other foods which are to be reported separately as applicable.

3906-01 Cracker: Manufacturing N.O.C.

Applies to establishments engaged in the manufacture of crackers, and other "dry" bakery products not covered by another classification (N.O.C.) such as, but not limited to, biscuits, wafers, and pretzels for sale to supermarkets, restaurants, distributors and other wholesale customers. Depending on the specific product being made, ingredients such as, but not limited to, flour, sugar, water, salt, soda, yeast, flavorings, and additives are mixed together and formed into dough. The dough is fed through a hopper into a roller, then shaped into product and baked in ovens. Machinery includes, but is not limited to, mixers, ovens, conveyors, packaging and package-handling equipment.

This classification excludes retail bakeries which are to be reported separately in classification 3901 and route delivery drivers who are not employees of the dry bakery goods manufacturer who are to be reported separately in classification 1101.

3906-02 Potato chip: Manufacturing N.O.C.

Applies to establishments engaged in the manufacture of potato chips and similar snack foods not covered by another classification (N.O.C.) such as, but not limited to, fried corn or cheese chips for sale to wholesale customers. To make potato chips, potatoes are washed, sliced, salted, and fried in cooking vats. Automatic rakes stir the potato slices to ensure uniform cooking. As chips emerge from the vats onto conveyors, they are inspected for color and quality. Burned, discolored, or broken chips are discarded; the rest are packaged for sale. Other types of fried chips are made by mixing dry ingredients which are then deep fried, inspected and packaged. Machinery includes, but is not limited to, slicing equipment, mixers, deep fryers or cooking vats, pan greasers, ovens, conveyors, packaging and package-handling equipment. This classification includes delivery of the product when done by employees of an employer subject to this classification.

This classification excludes route drivers who are not employees of the chip manufacturer who are to be reported separately in classification 1101.

3906-03 Ravioli and tamale: Manufacturing

Applies to establishments engaged in the manufacture of ravioli, tamales, tortellini or similar frozen or ready-to-cook foods, for sale to wholesale customers. Ingredients include, but are not limited to, cornmeal, flour, ground meats, cheeses, seasonings, tomatoes or tomato paste, sauces, and corn husks. Depending on the specific product being made, ingredients are mixed together, placed in shells, pasta or corn husks, or otherwise prepared, cooked, inspected, wrapped, packaged and, in some cases, frozen. Machinery includes, but is not limited to, mixing or blending machines, deep fryers or cooking vats, ovens, conveyors, packaging and package-handling equipment, and freezers.

This classification excludes route drivers who are not employees of the food product manufacturer who are to be reported separately in classification 1101.

3906-04 Pasta: Manufacturing

Applies to establishments engaged in the manufacture of pasta products such as, but not limited to, macaroni, spaghetti, or noodles for sale to supermarkets, restaurants, distributors and other wholesale customers. Ingredients such as, but not limited to, flour, sugar, salt, seasonings, preservatives, oils, and water are mixed in mixing machines to form the dough. The dough is further mixed and kneaded, pressed through rollers to regulate thickness, cut with machinery or by hand to desired size and shape, then wrapped in cellophane or packaged in cartons. Machinery includes, but is not limited to, dough mixers, dough kneaders, rollers, cutting and slitting machines, hydraulic presses, ovens, conveyors, and packaging and package-handling equipment.

This classification excludes route drivers who are not employees of the manufacturer who are to be reported separately in classification 1101.

3906-05 Confectionery, chewing gum or cough drop: Manufacturing

Applies to establishments engaged in the manufacture of confectionery products, chewing gum or cough drops for sale

to wholesale customers. Confections include, but are not limited to, candies such as creams, caramels, mints, hard candies, gum drops, glazed fruits, nut brittle, a wide variety of chocolate candy, and molded sugar cake decorations, such as, but not limited to, rosettes, candle holders, and colorful edible images used to decorate cakes or cookies. This classification includes both cooked and uncooked confection products. Because of the variety of candies and confections included in this classification, preparation and finishing processes which individualize the product may vary widely. Ingredients include, but are not limited to, sugar, flour, starch, nuts, milk, water, flavorings, cocoa, and coloring. Depending on specific product being made, ingredients are weighed, mixed or beat. Further processing may include heating, pressure cooking, baking, or forming uncooked mixtures (referred to as "paste" or frosting) into products by twirling, pressing, molding, or otherwise shaping. Confection products may be individually wrapped or packed in boxes, cans, trays, or other containers. Machinery includes, but is not limited to, ranges, burners, various sized kettles, pots, pressure cookers, trays, mixing, cutting, or filling machines, hoppers, conveyors, die cutters, presses, coolers, and packaging and package-handling equipment. The manufacture of chewing gum and cough drops is similar although ingredients vary somewhat.

This classification excludes route drivers who are not employees of the confection manufacturer who are to be reported separately in classification 1101; candy store operations with on-premise manufacturing which are to be reported separately in classification 3905-13; and candy store operations with no manufacturing which are to be reported separately in classification 6406.

3906-07 Pizza: Manufacturing, N.O.C.

Applies to establishments engaged in the manufacture of frozen or ready-to-bake pizza not covered by another classification (N.O.C.) for sale to wholesale customers. Dough is mixed and rolled out to form the crust; sauce and a variety of toppings such as meats, cheese, vegetables are arranged on top of the crust. Pizzas are wrapped in plastic wrap, packaged, and stored in freezers prior to delivery. Machinery includes, but is not limited to, mixers, rolling devices, ovens, conveyors, packaging and package-handling equipment, and freezers.

This classification excludes route drivers who are not employees of the pizza manufacturer who are to be reported separately in classification 1101; pizza parlors which are to be reported separately in classification 3905; and U-bake pizza stores which are to be reported separately in classification 6403.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-61801, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-61801, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-61801, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-61801, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-61801, filed 11/30/79, effective 1/1/80.]

WAC 296-17-61804 Classification 3909.

3909-00 Caterers

Applies to establishments engaged in catering operations. This classification includes the preparation and serving of food and beverages for customers who have arranged for their services for social and business events such as weddings, parties, bar mitzvahs, meetings or banquets. Foods prepared and served range from deli trays, sandwiches, box lunches, and buffets, to full meals. The food may be prepared at the caterer's own facility and delivered to the customer's location or may be prepared at the customer's location. Catering services include, but are not limited to, event planning, arranging tables, decorations, supplying utensils and dishes, bartending, waiting and busing tables, and taking care of leftover food and related clean-up after the event. This classification also includes catering to airlines which involves preparing various foods and direct delivery to the airline with special trucks that maintain hot or cold foods. This classification also applies to food services provided by communities or civic/social organizations to local residents who, because of physical disability or age, are unable to prepare their own food. The food is prepared and delivered to the client's home.

This classification excludes street vendors or route food services which are to be reported separately in classification 1101.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-61804, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-61804, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-61804, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-61804, filed 11/29/82, effective 1/1/83.]

WAC 296-17-619 Classification 4002.

4002-00 Dairy products, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of dairy products not covered by another classification (N.O.C.) such as, but not limited to, whole, low fat, skim, powdered, flavored and condensed milk, buttermilk, cream, half-and-half, and eggnog. Raw milk may be purchased from others or furnished by the manufacturer's own dairy operation. Other ingredients usually purchased elsewhere include, but are not limited to, flavorings, sweeteners, nutrients, bacteria and yogurt cultures, and paper, glass or plastic containers for packaging finished products. Raw milk is delivered by insulated tanker trucks after it is tested for antibiotics, bacteria and microorganism counts, temperature, and fat content. The raw milk is pumped from the trucks into refrigerated silos or tanks; the cream is skimmed from the top and pumped into separate storage tanks for further blending to ensure the correct fat and nutrient content. The remaining milk may be evaporated, homogenized, pasteurized, cooled, tested for quality, and further processed into various milk products which are filled into gallons, half gallons, quarts, pints and half-pint containers and packaged for shipping. This classification includes the incidental manufacture of butter, ice cream, or cheese products when done by employees of an employer subject to this classification.

This classification excludes establishments primarily engaged in the manufacture of butter, cheese, ice cream and ice cream mixes which are to be reported separately in classification 4002-01 and dairy farming operations which are to be reported separately in classification 7301.

4002-01 Butter, cheese, ice cream and ice cream mix: Manufacturing

Applies to establishments engaged in the manufacture of dairy products such as, but not limited to, butter, natural or processed cheeses, cottage cheese, cheese dips or spreads, custards, whipped topping, ice cream, milkshake or ice cream mixes, ice milk, sherbet. Raw milk may be purchased from others or furnished by the manufacturer's own dairy operation. Other raw materials usually purchased elsewhere include, but are not limited to, flavoring, coloring agents, salts, additives and preservatives, plastic or oiled wrappings, and paper, glass or plastic containers for packaging finished product. Raw milk is delivered by insulated tanker trucks and pumped from the trucks into refrigerated silos or tanks. Initial processes are similar for products manufactured in this classification, but end processes vary, depending on the product being made. To make cheese, raw milk is heat treated and pasteurized, cooled, moved through separators which adjust fat composition by skimming the milk or adding cream, then pumped into vessels or cheese vats. Lactic acid and enzymes are added to purify and clot the milk and form a gel which is cut into tiny cubes. Other additives, preservatives, or flavorings may be added at this point. The mixture of curds and whey (the liquid by-product lost from curds after cutting) is heated by allowing steam to enter the outer jacket of the vat. The mixture is stirred, whey is drained from curds and transported to evaporators and spray dryers which condense the whey into a powder form. Aside from salting, little more is done to curds to make unripened cheeses such as cream cheese or cottage cheese. When making firmer cheeses, the next step involves knitting or stretching the drained curds for texture. This process will vary according to the type of cheese being produced, but activities commonly involve preliminary packing, pressing or pulling of the curds in hot water, or turning curd blocks (called "cheddaring"). The curd blocks are milled (cut into finger-sized pieces) and moved through a trough or air block through tubing to other vats for further processing. In other processes, curds are collected in hoops (metal containers lined with cloth or plastic) and pressed into blocks or molds, or barrels. Hydraulic presses are used to press cheese, and vacuum chambers may be used to remove air. Cured cheese blocks may be packaged in corrugated cartons, or cut into smaller blocks, vacuum sealed in plastic, then packaged in boxes, or cut or shredded prior to packaging.

This classification excludes establishments primarily engaged in the manufacture of milk and other related dairy products not covered by another classification which are to be reported separately in classification 4002-00; establishments engaged in the manufacture of cheese-based salad dressings which are to be reported separately in classification 3902; and dairy farming operations which are to be reported separately in classification 7301.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-619, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-619, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-619, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-619, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-619, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-619, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-619, filed 11/9/73, effective 1/1/74.]

WAC 296-17-620 Classification 4101.

4101-00 Printing, lithography, engraving, map printing and silk screening, N.O.C.

Applies to establishments engaged in providing a variety of printing services not covered by another classification (N.O.C.) to others. Operations contemplated include, but are not limited to, the press room, assembly and staging areas, shipping departments, and delivery. *Printing:* This category covers many types of printing including offset cold press and letterpress printing. *Lithography:* This category of printing is similar to letterpress printing with the process used to transfer images to paper (stock) being the distinction. In letterpress printing the image is transferred directly from plate to stock. In lithography an additional cylinder containing a rubber blanket is used. The process is plate to blanket to stock. *Engraving:* This applies to a process wherein designs or images are incised into the surface of a material from which printing impressions can be made. *Map printing:* This applies to an end product produced by a printer rather than a specialty form of printing. *Silk screening (or screen printing):* This applies to a specialty type of printing wherein a silk, nylon or metal screen contains the desired image and ink is forced through the screen to form the design on paper or other medium. Products produced by establishments subject to this classification include, but are not limited to, catalogs, booklets, pamphlets, brochures, books, letterhead, paper signs, and specialty invitation and business cards.

This classification excludes photographic composition or prepress work such as, but not limited to, photographic or computerized typesetting, layout, paste up, editing, proofreading, camera work and automated plate making which are to be reported separately in classification 4904. *Employees of an employer subject to this classification who have both photographic composition/prepress work duties and duties which are subject to this classification (4101) are to be reported separately in classification 4101 without a division of work hours.* This classification also excludes newspaper publishers who are to be reported separately in classification 4103 and establishments engaged in cloth printing operations which are to be reported separately in classification 3802.

4101-02 Rubber stamp: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of all types of rubber or synthetic rubber stamps or marking devices for others. Products produced by establishments subject to this classification include, but are not limited to, date, character, name and address stamps. Stamps may be produced by hand or machine and can be made from a variety of natural or synthetic materials. Finished stamps are attached to handles or coverings purchased from others.

4101-03 Bookbinding

Applies to establishments engaged in bookbinding and/or the restoration of old or damaged books using methods similar to those employed by bookbinders described by this classification. One definition of bookbinding is all further treatment of stock after printing which may include cutting, folding, trimming, gathering, stitching, gluing and casing. There are two general types of binding: Pamphlet binding and bookbinding. Pamphlet binding is used for such material as folders, booklets, catalogs and magazines. An automatic feeder carries the sheets to a folding machine.

After folding, the sheets can be collated either by hand or by machine and either saddle-wire or side-wire stitched, depending on the thickness of the material being bound. There are a number of ways to bind a book, the most common being "edition" binding, also known as hard cover or cases binding, where the papers are sewn together by specialized sewing machines. This process is used when permanence is desired. "Perfect" binding is a less expensive type of binding as it requires no sewing or stitching and uses a pliable adhesive for binding.

This classification excludes photographic composition or prepress work such as photographic or computerized typesetting, layout, paste up, editing and proofreading, camera work and automated plate making which is to be reported separately in classification 4904. *Employees of an employer subject to this classification who have both photographic composition and/or prepress duties* ***and*** *duties which are subject to this classification (4101) are to be reported in classification 4101 without a division of work hours.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-620, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-620, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-620, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-620, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-620, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-620, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-620, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-620, filed 11/30/79, effective 1/1/80; Order 75-38, § 296-17-620, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-620, filed 11/9/73, effective 1/1/74.]

WAC 296-17-622 Classification 4103.

4103-01 Newspaper publishing

Applies to establishments engaged in publishing daily or periodic newspapers. This classification includes the printing, distribution and general maintenance activities of the newspaper. The printing operation usually consists of one of three processes: Offset lithography, letterpress, or flexography. After the papers are printed, they are cut, folded and stacked either manually or by computer-operated machinery. Route managers then distribute the papers to door-to-door carriers or independent route delivery drivers. Typical occupations covered by this classification include bindery workers, press operators, freight handlers, machine feeders, production helpers, maintenance workers and drivers.

This classification excludes photo composition or prepress work such as photographic or computerized typesetting, layout, paste up, editing, proofreading, camera work and automated platemaking which is to be reported separately in classification 4904; outside reporters, photographers, sales personnel, advertising staff and circulation solicitors who are to be reported separately in classification 6303; and establishments engaged in printing operations for newspapers published by other firms which are to be reported separately in classification 4101.

Special note: Newspapers without any printing operations are governed by the general reporting rule covering businesses described by a standard exception classification. *Employees of an employer subject to this classification who have both photographic composition/prepress work duties and duties which are subject to this classification (4101) are to be reported separately in classification 4101 without a division of work hours.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-622, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-622, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-622, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-622, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-622, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-622, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-622, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-622, filed 11/9/73, effective 1/1/74.]

WAC 296-17-626 Classification 4107.

4107-04 Business machine: Service, adjustment, repair, and installation, N.O.C.

Applies to establishments engaged in the adjustment, service, or repair of business machines not covered by another classification (N.O.C.). Types of business machines include, but are not limited to, typewriters, copy, postage meters, keypunch, fax machines, computer components, X-ray and other medical-related electronic equipment. Work contemplated by this classification includes low voltage prewiring to the point of connecting to the live circuit. This classification includes all work performed on the customer's premises as well as in the employer's shop. This classification also includes service or repair of depth finders, radar, computerized or noncomputerized embroidery machines and the replacement or refilling of *nontoxic* toner in printer cartridges which is sometimes referred to as *remanufacturing*. The plate is removed from used cartridges, residuals of old toner is removed with hand-held vacuums, and the cartridge is wiped clean. After pouring new toner into the cartridge, the plate is replaced and the cartridge is considered new. Used toner is wrapped in plastic and discarded.

This classification excludes electrical work with a live power source which is to be reported separately in classification 0601.

4107-20 Piano tuning

Applies to establishments engaged in tuning services for pianos, organs, and other keyboard musical instruments. Establishments in this classification will tune, clean, replace the felt, and provide minor repair service such as, but not limited to, the removal and replacement of bad cords, regluing broken keys, or replacing faulty foot pedals. This classification includes all work performed on the customer's premises as well as in the shop.

This classification excludes establishments engaged in the sale of pianos and organs which are to be reported separately in classification 6306; establishments engaged in the sale of other types of musical instruments such as string, wind and percussion instruments, which are to be reported separately in classification 6406; and establishments engaged in the reconditioning of pianos and organs (and the related sales of reconditioned pianos and organs) which are to be reported separately in classification 2906.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-626, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-626, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-626, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-626, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-

626, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-626, filed 11/9/73, effective 1/1/74.]

WAC 296-17-627 Classification 4108.

4108-15 Letter service shops and mailing or addressing companies

Applies to establishments engaged in providing large volume mailing and addressing services. This could be the routine mailing of periodicals or advertising brochures or a one-time letter to a particular list of recipients. Work contemplated by this classification includes, but is not limited to, folding, sorting, labeling and stuffing envelopes (either by hand or machine), clerical support, outside sales work, pick up of preprinted material from a client's location and delivery of completed work to the client or post office when done by employees of an employer having operations subject to this classification. Companies in this classification may also research and compile mailing lists as an additional service for their clients who are involved in direct mail advertising. This classification includes contracting of complete mail room services at a client's location.

This classification excludes printing of advertising material which is to be reported separately in classification 4101 and photocopying or duplicating of printed material, private mail box services (receipt and mailing of routine ready-to-mail letters and packages) for box renters, and package wrapping/mailing services, all of which are to be reported separately in classification 6406.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-627, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-627, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-627, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-627, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-627, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-627, filed 11/9/73, effective 1/1/74.]

WAC 296-17-628 Classification 4109.

4109-10 Sign painting or lettering inside buildings

Applies to establishments engaged in sign painting or lettering inside a customer's building. This type of painting includes, but is not limited to, names, addresses and office hours on a door or window, and signs in the form of lettering/illustrations on an interior wall. Work contemplated by this classification includes preparing the surface by cleaning, sanding, etc., applying the lettering/illustrations by appropriate method (brushing, rolling, spraying, etc.), and applying a protective finish. This classification includes the painting of scenery, by a contractor, in a shop or theater (if done by the employees of a theater or television broadcasting station it would be an inclusion in classification 4504 or 4502 as applicable), and the painting of an interior mural.

This classification excludes sign painting shops that paint on, or apply vinyl lettering to, precut backings which are to be reported separately in classification 4109-18; painting in a shop that is not covered by another classification which is to be reported separately in classification 3603-12; and the painting, repair or erection of signs or murals on any part of the exterior of a building which is to be reported separately in classification 0403.

4109-18 Sign painting in shop

Applies to establishments engaged in providing sign painting services in their shop. The use of this classification is limited to painting on, or applying vinyl lettering to, precut mediums (sign backings) provided by the customer or purchased elsewhere; it does not contemplate the manufacture of the sign backing. (Vinyl lettering or designs are usually computerized. Lettering or designs are entered into a computer; a plotter/cutter attached to the computer cuts the programmed design or lettering from rolls of vinyl.) Work contemplated by this classification includes preparing the surface by cleaning, sanding, etc., applying the lettering/illustrations by appropriate method (such as brushing, rolling, spraying, applying vinyl designs), and applying a protective finish. This classification includes making and applying vinyl lettering in place of painted lettering and lettering/illustrating on vehicles not in connection with auto body repair or painting.

This classification excludes the painting or lettering of signs in buildings which is to be reported separately in classification 4109-10; painting in a shop which is to be reported separately in classification 3603 (unless the painting is included in another classification); the painting, repair or erection of signs on any part of the exterior of a building which is to be reported separately in classification 0403; and sign painting in connection with sign manufacturing operations which is to be reported separately in the applicable manufacturing classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-628, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-628, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-628, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-628, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-628, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-628, filed 11/9/73, effective 1/1/74.]

WAC 296-17-629 Classification 4201.

4201-00 Longshoring and stevedoring

Applies to establishments engaged in longshoring (stevedoring) operations which involve the transfer, loading, and unloading of ships' cargo and storage of such on docks or in nearby warehouses. This classification includes stevedoring by hand or hand truck and containerized stevedoring which involves the use of a cross deck crane for lifting the trailer body container onto or off of the ships deck or hold. This classification also includes wharf and pier operations, coal dock operations, cargo checkers, tallymen and the repackaging or mending of damaged containers in connection with stevedoring activities.

This classification excludes stevedores employed directly by a port district who are reported separately in classification 4201-02.

Special note: Stevedoring activities are almost always covered by the Longshore Harbor Workers Compensation Act (LHWCA) except when conducted by a port district or other political subdivision.

4201-02 Port districts

Applies to the operation of port districts by a municipality. Port districts have separate taxing authority and although they may receive tax dollars from levies most of their operating costs are funded through rental and use fees on the property and facilities they operate. Port districts are authorized by state law for the purpose of acquiring, developing, main-

taining and operating various transportation-related properties and facilities. In addition to marine and airports, the district may also develop and maintain facilities used for the transfer, handling, storage and terminal operations of commercial enterprises. This classification includes sales personnel and any stevedoring operations conducted by port district employees.

This classification excludes clerical office employees of a county who are to be reported separately in classification 5306 and stevedoring operations not conducted by port district employees which are to be reported separately in classification 4201-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-629, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-629, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-629, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-629, filed 11/9/73, effective 1/1/74.]

WAC 296-17-630 Classification 4301.

4301-05 Glue, lard, or tallow: Manufacturing

Applies to establishments engaged in the manufacturing of products from animal substances such as glue, lard and tallow. Glue manufacturing begins by boiling animal substances, including skins and hoofs, in water until the materials are diluted and melted. The material dries as a residue and forms as a hard pure protein gelatin. Incidental operations include bone crushing, grinding and bagging of bone meal, the filling of solidified grease into drums from the oil settling tanks and the pressing, drying, pulverizing and bagging of tankage for fertilizer manufacturers. The traditional "hot" animal glue which is produced in flake form, requires a heated glue pot to keep it at a usable consistency. More modern forms are ready to use liquids. Glues come in three general forms: Ready-to-use, water mixed form, and waterproof types that are often two-part and must be sold in two separate container units. These come with directions to mix to specified proportions just before use. Ready-to-use types retail in bottles, cans and tubes. Tools and equipment used include, but are not limited to, boiling pots, scrapers and razors. This classification includes making or refining lard, which is the white solid or semisolid rendered fat from a hog, and tallow making. This process includes taking the hard fat from parts of the bodies of cattle, sheep or horses, separating it by melting from the fibrous and membranous matter and mixing the whitish solids for use in making candles, leather dressing, soap and lubricants.

This classification excludes establishments that manufacture synthetic glues such as acrylic base, contact cement, polyester, latex combination, epoxy sticks, polyethylene, polyvinyl, or cellulose nitrate or rubber base which are to be reported separately in classification 3701.

4301-10 Sausage: Manufacturing

Applies to establishments engaged in manufacturing sausage. This process includes grinding, mixing, and blending cuts of meat with seasonings, spices, and fillers using grinders, mixers, pots, cooking tanks and meat cutting instruments. The mixture is stuffed into synthetic or natural casings or packed into forms. The product is often cooked in pressurized cooking tanks. The sausage is then cured by either pumping or injecting a curing solution into the meat or dry rubbing a curing substance into the meat and immersing the meat in a brine solution. Curing solutions usually contain one or more chemicals, such as sodium or potassium nitrate, ascorbate, or erythorbate, and water. The meats are then allowed to cure for up to 40 days. Curing may be followed by a period of several hours to several days in a temperature controlled smokehouse. The final product may be packaged, canned, placed in jars, or frozen.

This classification excludes dealers of natural sausage casings which are to be reported separately in classification 4301-19; meat products manufacturing which is to be reported separately in classification 4301-12; retail meat and poultry dealers which are to be reported separately in classification 3303; and the handling of livestock which is to be reported separately in the applicable classification.

4301-11 Packing house

Applies to establishments engaged in packing house operations which include the handling and slaughtering of livestock and the preparation of fresh meat and meat products. Animals are moved through a system of chutes to a conveyor system which takes them through a stunning machine and then into the slaughtering area. Work is performed with the use of hoists, knives, scissors, razors, scrapers, meat chippers, cleavers and hydraulic dropper/spreaders. After slaughtering, the blood is drained, collected and stored. The carcasses are then dipped into a scald tank and conveyed to dehairer machines and the hides are removed. After carcasses have been inspected and weighed, they are placed in blast freezers for several hours and then moved to a cooler. Carcasses are sawed or cut into portions and specific cuts of meat including those that will be used in other products such as cold cuts, sausages, and hot dogs. The products are then placed in cardboard boxes and loaded onto pallets. This classification includes incidental rendering, lard refining, butter substitutes manufacturing, washing of casings, sausage manufacturing, salting of hides, cooking of offal (waste), processing of the viscera manually or by machine, and fertilizer manufacturing when done by employees of an employer subject to this classification. Some of the prepared meats are packed in cans, bottles, or jars, sealed and cooked in vats. Meat packing and processing operations may be consolidated or may be in different locations.

This classification excludes establishments primarily engaged in sausage manufacturing which are to be reported separately in classification 4301-10; dealers of natural sausage casings which are to be reported separately in classification 4301-19; meat products manufacturing which is to be reported separately in classification 4301-12; slaughterhouse only operations which are to be reported separately in classification 4301-22; custom meat cutting which is to be reported separately in classification 4302; retail meat and poultry dealers which are to be reported separately in classification 3303; and wholesale meat and poultry processors/dealers which are to be reported separately in classification 3304.

4301-12 Meat products: Manufacturing

Applies to establishments engaged in meat products manufacturing, including canning or dehydrating. Products include, but are not limited to, frankfurters, bologna, head cheese and meat loaf. No handling or slaughtering of live-

stock is performed by employers subject to this classification. Meats are received in halves, quarters or individual fresh cuts. Cuts of meat are washed, soaked in brine, smoked, pickled, corned, and/or otherwise cooked. Meat products are bottled in jars, bottles, or cans and sealed. Meat trimmings may be chopped, ground, mixed, smoked, boiled, or stuffed in sausage casings. Machinery and equipment includes, but is not limited to, mixing, cutting, and bottling equipment or tools.

This classification excludes establishments primarily engaged in sausage manufacturing which are to be reported separately in classification 4301-10; dealers of natural sausage casings which are to be reported separately in classification 4301-19; glue, tallow or lard manufacturing which is to be reported separately in classification 4301-05; packing house operations which are to be reported separately in classification 4301-11; slaughterhouse operations which are to be reported separately in classification 4301-22; custom meat cutting which is to be reported separately in classification 4302; the retail sale of meat and poultry which is to be reported separately in classification 3303; and wholesale meat dealers and wholesale poultry processors/dealers which are to be reported separately in classification 3304.

4301-13 Peat moss: Shredding and baling

Applies to establishments engaged in the shredding and baling of peat moss. This includes the cleaning, sorting and packaging of peat moss to be used as mulch, plant food (fertilizer), soil amendment, fuel or decorative uses such as in floral arrangements.

This classification excludes establishments engaged in the digging or stripping of peat from the surface of bogs with use of mechanical equipment which are to be reported separately in classification 0112 and the picking of moss by hand in a forest which is to be reported separately in classification 4802.

4301-17 Tanneries, fur manufacturing

Applies to establishments engaged in tannery operations which involve tanning and dressing raw hides for sale to dealers or manufacturers of leather or fur products. (Taxidermists often send hides to a tannery rather than treating them at their own shops.) Hides are received from outside sources, washed in caustic soda, borax and soda to clean, soften and preserve them. Excess flesh and tissue is removed from hides by fleshing machines which resemble a band saw mounted on a table. Any additional fleshing is done by scraping with a hand knife. Hides are then softened by agitating in a lime solution to remove all or part of the hair or fur, softened by agitating paddles using a variety of chemicals mixed with cornmeal and treated with a solution of sulfuric acid. Tanning is then done in revolving drums containing a mixture of water, salt, sodium bicarbonate and chromium sulfate. Drying may be done using a gas fired oven depending on the type of hide. Shredded hide may be baled and sold to glue makers. Tanned hides are split, dyed and finished. Tears in the hide are hand sewn.

This classification excludes hide or leather dealers, establishments engaged in hide pelting, and taxidermists which are all to be reported separately in classification 3708.

4301-19 Sausage casing dealers

Applies to establishments engaged in the sales and distribution of natural sausage casings to others. Casings are animal intestines received from packing houses or rendering plants. Wholesale dealers wash, dry, sort and package casings for distribution.

This classification excludes establishments engaged in the manufacture of sausage which are to be reported separately in classification 4301-10.

4301-21 Rendering works, N.O.C.

Applies to establishments engaged in rendering operations not covered by another classification (N.O.C.). Rendering is the act of reducing or melting down fat by heating. The raw animal materials such as, but not limited to, discarded fat, bone trimmings, meat scraps, blood, grease and feathers are collected from farms, stockyards, slaughterhouses, butcher shops, supermarkets, restaurants, meat and poultry stores, ranches, feed lots or animal shelters and brought to the rendering plant. The hides are removed and stored for shipment to hide dealers and tanneries. Carcasses are cut into workable sizes and placed into tanks. Steam passes directly into the materials being cooked. The grease is drawn off and meat and bones drop into a slush box. The slush is then pressed to remove more water and grease before going to steam pressure dryers. In some plants this is all performed with one piece of equipment. Tools and equipment may also include crushers, hashers, grinders, hoggers, prebreakers, blow tanks, conveyors, bucket elevators, pumps, steam-heater batch corkers, dryers, screw presses and waste water treatment equipment. In addition, other products such as cod liver oil may be produced, depending on the basic material being rendered. Regardless of the type of rendering system being used, all fish oils and animal grease or tallow are pumped into receiving or settling tanks. Barrels, drums or tank cars are filled for shipment to manufacturers of assorted products such as soap, and fatty acid products such as cosmetics, lubricants, paints and plastics. Edible tallow is used in margarine and other foods as regulated by the USDA. This classification includes the crushing, grinding, pressing, drying, pulverizing, and bagging of dried slush or tankage to produce fish or bonemeal, and feed concentrates for livestock and poultry and fertilizer.

This classification excludes establishments engaged as packing houses which are to be reported separately in classification 4301-11 and establishments engaged as slaughterhouses which are to be reported separately in classification 4301-22.

4301-22 Slaughterhouses

Applies to establishments engaged in the slaughter of animals and the initial processing of meat. This includes purchasing livestock from individuals or feedlots, handling the livestock, maintaining pens, and butchering. The process requires the preparation of the animal carcass, washing of casings and the salting of hides or cooking of offal (waste). Tools and equipment used include hydraulic dropper/spreaders, stunning machines, hoists, knives, scissors, razors, scrapers, meat chippers and cleavers. The meat is then sold by hanging weight and distributed to buyers using box freezer or container trucks. This classification excludes establishments

engaged in packing house operations which are to be reported separately in classification 4301-11; establishments engaged in manufacturing meat products which are to be reported separately in classification 4301-12; custom meat cutting which is to be reported separately in classification 4302; retail meat and poultry dealers which are to be reported separately in classification 3303; wholesale meat dealers and wholesale poultry processors/dealers which are to be reported separately in classification 3304.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-630, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-630, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-630, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-630, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-630, filed 11/27/78, effective 1/1/79; Order 76-36, § 296-17-630, filed 11/30/76; Order 75-38, § 296-17-630, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-630, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-630, filed 11/9/73, effective 1/1/74.]

WAC 296-17-631 Classification 4302.

4302-14 Custom meat cutting

Applies to establishments engaged in operating custom meat cutting shops. This classification primarily caters to customers who bring in an animal carcass (usually from a farm or hunt) for processing. Customers generally fill out a cut and wrap list which indicates how they want the meat cut such as steaks, flank, roasts, ribs, fillets, or hamburger, and how they want the product wrapped such as 3 steaks to a package, 5 pound roasts, 2 pound packages of hamburger, etc. Once the order has been filled to a customer's specifications, meat is stored in a freezer locker until the customer picks up the product. Custom meat cutting shops may also smoke meats and offer custom cut inspected meats (meaning inspected by USDA officials) for sale as locker packages or by the pound. It is also common for these establishments to sell related grocery items such as butter, eggs or milk. Tools and equipment include, but are not limited to, knives, razors, meat chippers, cleavers and hand carts.

This classification excludes establishments primarily engaged in custom meat cutting *including farm kill operations* which are to be reported separately in classification 4302-15; establishments engaged in farm kill operations *only* which are to be reported separately in classification 4302-16; packing house operations and slaughterhouse operations which are to be reported separately in classification 4301; establishments engaged in the retail sale of meat and poultry dealers which are to be reported separately in classification 3303; and wholesale meat dealers which are to be reported separately in classification 3304.

4302-15 Custom meat cutting and farm kill

Applies to establishments engaged in operating custom meat cutting shops *which also provide farm kill operations away from the custom meat shop*. This classification primarily caters to customers who bring in an animal carcass (usually from a farm or hunted) for processing. Customers generally fill out a cut and wrap list which indicates how they want the meat cut such as steaks, flank, roasts, ribs, fillets, hamburger, etc., and how they want the product wrapped such as 3 steaks to a package, 5 pound roasts, and 2 pound packages of hamburger. Once the order has been filled to a customer's specifications, meat is stored in a refrigerated locker until the customer picks up the product. Custom meat cutting shops may also smoke meats and offer custom cut inspected meats (meaning inspected by USDA officials) for sale as locker packages or by the pound. It is also common for these establishments to sell related grocery items such as butter, eggs or milk. Tools and equipment include, but are not limited to, knives, razors, meat chippers, cleavers and hand carts. *Farm kill operations* are usually performed with the use of a mobile kill truck. The animal is killed, placed on a hook hoist attached to the mobile unit, skinned, and dressed. The meat is then processed, according to the customer's order, usually at the shop.

This classification excludes establishments engaged in custom meat cutting-in shop *only (no farm kill)* which are to be reported separately in classification 4302-14 and farm kill *only* operations (mobile butchering) which are to be reported separately in classification 4302-16.

4302-16 Farm kill

Applies to establishments engaged *exclusively* in mobile butchering or farm kill operations which are usually performed with the use of a mobile kill truck. The animal is killed, placed on a hook hoist attached to the mobile unit, skinned, and dressed. Establishments in this classification are engaged in farm kill operations *only;* they are not engaged in the further processing of meat or meat cutting.

This classification excludes establishments engaged in operating custom meat cutting shops *only (no farm kill)* which are to be reported separately in classification 4302-14 and custom meat cutting shop *including farm kill* which are to be reported separately in classification 4302-15.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-631, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-631, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-631, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-631, filed 2/28/85, effective 4/1/85; Order 76-36, § 296-17-631, filed 11/30/76; Order 73-22, § 296-17-631, filed 11/9/73, effective 1/1/74.]

WAC 296-17-633 Classification 4304.

4304-00 Feedlots or stockyards

Applies to establishments engaged in operating feedlots or stockyards. Feedlots are large, enclosed yards usually with pens or stables where livestock, such as cattle, horses, sheep or pigs, are temporarily held for the sole purpose of supplying with feed and nourishment. Feed (such as corn or hay) is brought in bulk. Feed may be mixed in choppers and blown into feeder troughs. The livestock are raised until they reach certain weights, then sold to packing houses or slaughterhouses. Stockyards are holding areas (large, enclosed yards) where livestock are kept until they are sent for slaughter, sold or dispersed elsewhere.

This classification excludes packing houses or slaughterhouses which are to be reported separately in classification 4301 and livestock auction and sales yards or livestock buyers houses which are to be reported separately in classification 4304-02.

4304-02 Livestock auction and sales yards; livestock buyers

Applies to establishments engaged in operating livestock auction and sales yards and to livestock buyers. Operation of an auction and sales yard involves the exhibition and sale of cattle, horses, mules, sheep, hogs and goats. The premises usually consists of an arena, a grandstand for customers (both buyers and sellers), and outside pens or stalls for livestock. The livestock are usually dropped off by customers (farmers, ranchers, etc.), are tagged, recorded, checked by brand inspectors and veterinarians, and inspected by employees of the yard. If the animals are left prior to the day of the sale, the employees will feed the livestock and maintain the pens. When the auction begins, yard employees bring the livestock to the arena, parade them around for show, then take them back to the pens to be weighed. A recordkeeper usually assists the auctioneer during this activity. Recordkeepers engaged directly in the business of auctioning are subject to the auction classification. Livestock buyers view the livestock from an overhead viewing area or by walking through the pen area.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-633, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-633, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-633, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-633, filed 11/9/73, effective 1/1/74.]

WAC 296-17-634 Classification 4305.

4305-06 Garbage works or landfill: Reduction or incineration

Applies to establishments engaged in the disposal of refuse by processing or destruction, or in the operation of incinerators, landfills or other sites for disposal of such materials. Sanitary landfilling involves spreading typical household waste, in thin layers, compacting them to the smallest practical volume, and covering them with soil each working day in a manner that minimizes environmental impact. Sanitary landfills must have permits issued by a state regulatory program. Also included in this classification are solid waste landfills which are designed to accept construction debris such as plasterboard, cement, dirt, wood, and brush. Compactors may be used to compact the trash before it is discarded in the landfill. Incinerator operations reduce the volume of refuse with the remaining material and ashes being discarded in a landfill. Front end loaders are frequently used to feed the refuse into the incinerator. This classification includes cashiers collecting fees from customers, incidental recycling or sorting operations conducted in connection with a landfill or garbage works operation by employees of an employer subject to this classification, and establishments that only sort refuse. (Refuse sorting centers are distinguished from "buy back centers" in that "buy back centers" collect recyclable materials which they sell to others while refuse sorting centers collect and dispose of materials.)

This classification excludes establishments engaged in solid waste, refuse or ashes collecting, including curbside recycle services which are to be reported separately in classification 4305-18; cities or towns engaged in solid waste, refuse or ashes collecting, including curbside recycle services which are to be reported separately in classification 0803; counties and taxing districts engaged in operating garbage works, landfill, reduction or incineration operations which are to be reported separately in classification 1501; establishments engaged in hazardous waste and toxic material processing or handling, including processing of medical or septic tank waste, drug lab or hazardous spill cleanup (excluding oil spill cleanup on land), and reprocessing or handling of low-level radioactive materials, which are to be reported separately in classification 4305-20; establishments engaged in tire dumps or collection centers which are to be reported separately in classification 4305-21; and buy back (recycle) center operations that include the collecting, buying from customers, sorting and the baling and sales of materials which are to be reported separately in classification 2102.

4305-18 Solid waste, refuse or ashes collecting

Applies to establishments engaged in collecting and removing waste from private homes, commercial establishments, industrial facilities, and other sites. Refuse may be picked up on a daily, weekly, or other regular basis. Drivers are usually assigned designated routes to collect curbside garbage or transport metal dumpsters for commercial businesses. This classification also includes the curbside collection of recyclable material when performed by employees of an employer subject to this classification. Garbage collection companies have contracts to dump refuse at landfills or local transfer stations where refuse is compacted and later transferred to a landfill. Independent owners may also contract to run the services for a county or city. This classification also includes establishments engaged in mobile paper shredding services. A truck, similar to a small moving van, is outfitted with a paper shredder. Empty bins or cans are left at establishments such as banks and law offices which need to have documents shredded, the filled containers are picked up either on a regular basis or on call, and the paper shredded onsite. The shredded paper is delivered to recyclers or other businesses who use shredded paper.

This classification excludes establishments engaged in garbage works, landfill, reduction or incineration operations which are to be reported separately in classification 4305-06; counties or taxing districts engaged in garbage works, landfill, reduction or incineration operations which are to be reported separately in classification 1501; cities or towns engaged in solid waste, refuse or ashes collecting, including curbside recycling services which are to be reported separately in classification 0803; establishments engaged in hazardous waste and toxic material processing or handling, including processing of medical or septic tank waste, drug lab or hazardous spill cleanup (excluding oil spill cleanup on land), and reprocessing or handling of low-level radioactive materials, which are to be reported separately in classification 4305-20; establishments engaged in tire dumps or collection centers which are to be reported separately in classification 4305-21; and recycle ("buy-back") center operations that include the collecting, buying from customers, sorting, and the baling of materials which are to be reported separately in classification 2102.

4305-20 Hazardous waste and toxic material processing or handling, N.O.C.

Applies to establishments engaged in the *processing or handling* of hazardous/toxic materials not covered by another classification (N.O.C.), including the *processing* of medical or septic tank waste, drug lab or hazardous spill *cleanup*

(excluding oil spill cleanup on land), and *reprocessing or handling* of low-level radioactive materials. This classification is distinguished from classification 3701-27, in that 4305-20 applies to the *processing or cleanup* of hazardous/toxic materials while 3701-27 includes the *identifying and repackaging for disposal* of such materials as drugs, pesticides, chemicals, and toners. Hazardous waste can be defined as any material that contains hazardous elements in amounts high enough to pose a significant threat to human health and the environment and therefore should be isolated. Hazardous characteristics include the ability to bioconcentrate, ignite, corrode, react with water or other materials, or show toxicity such as toxic metals including lead, cadmium and mercury; organic solvents such as benzene and trichloroethylene; and toxic materials such as asbestos.

This classification excludes establishments engaged in garbage works, landfill, reduction or incineration operations which are to be reported separately in classification 4305-06; establishments engaged in solid waste and refuse or ashes collecting, including curbside recycle services and mobile paper shredding operations, which are to be reported separately in classification 4305-18; establishments engaged in tire dumps or collection centers which are to be reported separately in classification 4305-21; soil remediation, including oil spill cleanup on land, which is to be reported separately in classification 0101; asbestos abatement, all operations, which is to be reported separately in classification 0512; processing of waste oils, solvents, antifreeze, paints, and other hazardous materials, which is to be reported separately in classification 3407; and hazardous/toxic material repackaging for disposal, including drugs, pesticides, chemicals, and toners, which is to be reported separately in classification 3701.

4305-21 Tire dumps or collection centers

Applies to establishments engaged in operating tire dumps or collection centers. The primary source of used vehicle tires are tire retailers who remove the tires from their customers' vehicles when replacement tires are sold. Occasionally community or charitable groups will hold a fund raising event where the public can drop off their used tires for a fee. Operations include, but are not limited to, picking up and hauling the used tires to a location where the tires can be stored or manually sorted into those with enough tread to be used on the highways; those casings suitable for retreading (either of which have a resale value); and those with no resale value which are hauled to an appropriate disposal site. This classification includes drivers as well as workers involved in the sorting operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-634, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-634, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-634, filed 5/31/91, effective 7/1/91; 90-13-018, § 296-17-634, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-634, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-634, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-634, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-634, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-634, filed 11/9/73, effective 1/1/74.]

WAC 296-17-635 Classification 4401.

4401-00 Cold storage lockers

Applies to establishments that rent cold storage lockers to the public. These establishments do not own equity in the merchandise that is stored. Other than being cold storage facilities they are similar to mini-warehouse storage operations. Typically these operations will be a part of a retail or wholesale food or beverage establishment such as meat markets or wine stores. Typical activities contemplated by this classification include maintenance and security of the facility.

This classification excludes establishments engaged in fruit/vegetable freezer operations which are to be reported separately in classification 3902; establishments engaged in cold storage warehouse operations which are to be reported separately in classification 4404; general merchandise warehouses (not cold storage) which are to be reported separately in classification 2102; mini-storage warehouses which are to be reported separately in classification 4910; and field bonded warehouses which are to be reported in classification 2008.

Special note: The distinction between this classification (4401) and cold storage warehouse operations (4404) is that classification 4404 contemplates a warehouse type facility which stores general merchandise of commercial enterprises such as manufacturers and wholesalers as opposed to classification 4401 which rents lockers out to individuals for storage of personal items.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-635, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-635, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-635, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-635, filed 11/9/73, effective 1/1/74.]

WAC 296-17-63501 Classification 4402.

4402-00 Ice: Manufacturing or harvesting

Applies to establishments engaged in the manufacture of ice or the harvesting of naturally occurring ice from frozen bodies of water such as lakes or ponds. Ice is made by treating, forming, and freezing water in refrigeration compressor systems. The ice blocks may be scored, cut or sawed, then left in blocks or crushed and bagged. Refrigeration systems are generally freezer coils or pipes running through or around tanks, or refrigerated vaults. Other equipment includes, but is not limited to, tanks, tin molds of various pound sizes or shapes, filtering systems, ice cube making systems which consist of water tanks, tubing and cutting blades, conveyors, incline screws, holding bins, bagging machines, winches, and forklifts. Ice harvesting is the cutting of natural ice from lakes, ponds, or other bodies of water that have frozen over to a suitable thickness and storing it in refrigerated warehouses. Ice manufacturers and harvesters either deliver their ice directly to their customers or sell it to ice dealers.

This classification excludes ice dealers who are to be reported separately in classification 4402-02 and manufacturers of "dry ice" who are to be reported separately in classification 3701.

4402-02 Ice dealers

Applies to establishments engaged as dealers of ice manufactured or harvested by others. Ice dealers either pick up ice directly from manufacturers and deliver it, or store it in their own refrigerated warehouses or ice stations prior to

delivery to their customers. Refrigerated, insulated trucks and trailers are used to deliver ice. Customers may include, but not be limited to, restaurants, lounges, service stations, grocery and convenience stores. Ice dealers may also own coin-operated dispensing machines, at various locations, which they refill.

This classification excludes establishments engaged in the manufacture of ice in refrigerated systems and the harvesting of natural ice which are to be reported separately in classification 4402-00 and establishments engaged in the manufacture of "dry ice" which are to be reported separately in classification 3701.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-63501, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-63501, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-63501, filed 11/29/82, effective 1/1/83.]

WAC 296-17-636 Classification 4404.

4404-05 Cold storage warehouse

Applies to establishments engaged in providing a cold storage facility for general merchandise. These establishments do not own equity in the merchandise they store. The cold storage facility, which is maintained through a mechanical refrigeration process, typically stores items such as, but not limited to, food products, furs, and pharmaceuticals. Work contemplated by this classification includes maintenance and security of the facility, incidental repackaging, and loading and unloading of the warehoused items when performed by employees of an employer having operations subject to this classification.

This classification excludes establishments engaged in fruit/vegetable freezer operations which are to be reported separately in classification 3902; establishments engaged in cold storage locker operations which are to be reported separately in classification 4401; general merchandise warehouses (not cold storage) which are to be reported separately in classification 2102; mini-storage warehouses which are to be reported separately in classification 4910; and field bonded warehouses which are to be reported separately in classification 2008.

Special note: The distinction between this classification (4404) and cold storage locker operations (4401) is that classification 4404 contemplates a warehouse type facility which stores general merchandise of commercial enterprises such as manufacturers and wholesalers as opposed to classification 4401 which rents lockers out to individuals for storing of their personal items.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-636, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-636, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-636, filed 11/9/73, effective 1/1/74.]

WAC 296-17-637 Classification 4501.

4501-00 Radio or television broadcasting companies: Transmitter or field employees outside, N.O.C.

Applies to the field employees, not covered by another classification (N.O.C.), of establishments engaged in the operation of radio or television broadcasting companies. This classification is limited to outside employees engaged in technical and engineering work such as the installation/testing/repair of lines, antennas (including tower mounted), satellite dishes, and field transmitting equipment.

This classification excludes radio or television broadcasting station employees confined to the studio or office such as, but not limited to, control operators/engineers, announcers, camera operators, players, entertainers, musicians, clerical office and sales personnel, who are to be reported separately in classification 4502; establishments engaged in providing television cable service to subscribers which are to be reported separately in classification 1305; contractors engaged in underground line construction, maintenance, or repair who are to be reported separately in classification 0107; contractors engaged in overhead line construction, maintenance or repair who are to be reported separately in classification 0509; and contractors engaged in wiring within buildings and antenna hookups within buildings who are to be reported separately in classification 0601.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-637, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-637, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-637, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-637, filed 11/9/73, effective 1/1/74.]

WAC 296-17-638 Classification 4502.

4502-00 Radio broadcasting stations: All other employment

Applies to establishments engaged in the operation of radio broadcasting stations. This classification is limited to those employees who are confined to the studio or office such as, but not limited to, control operators, producers, engineers, announcers, reporters, disc jockeys, players, entertainers, musicians, clerical office and sales personnel. This classification includes occasional outside exposure when broadcasting from a remote location.

This classification excludes radio broadcasting station field employees engaged in technical and engineering work such as, but not limited to, the installation/testing/repair of lines, antennas, and satellite dishes who are to be reported separately in classification 4501.

4502-01 Television broadcasting stations and video production: All other employment

Applies to establishments engaged in the operation of television broadcasting stations and the production of videos. This classification is limited to those employees who are confined to the studio or office such as, but not limited to, control operators, producers, directors, announcers, camera operators, reporters, players, entertainers, musicians, clerical office and sales personnel. This classification includes occasional outside exposure when broadcasting from a remote location.

This classification excludes television broadcasting station field employees engaged in technical and engineering work such as, but not limited to, installation/testing/repair of lines, antennas, and satellite dishes who are to be reported separately in classification 4501; studio or office employees of television cable companies who are to be reported separately in classification 4502-03; and large-scale theatrical/movie production which is to be reported separately in classification 6608.

4502-02 Recording companies, studio

Applies to establishments engaged in the operation of studio recording companies. This classification is limited to those employees who are confined to the studio or office such as, but not limited to, control operators, engineers, announcers, players, entertainers, musicians, clerical office and sales personnel. This classification includes occasional outside exposure when recording at a remote location.

4502-03 Television cable companies: Control room and clerical personnel

Applies to control room and office employees of establishments engaged in providing point-to-point cable television service to subscribers. Television cable companies receive commercially produced programming from others through satellite and antennae, which they distribute to their subscribers through the local cable lines they install and maintain. They may also become involved in producing original programming and making channels available for public access broadcasts. Work contemplated by this classification is limited to those employees who are confined to a control center, studio or office such as, but not limited to, control operators, players, announcers, entertainers, musicians, clerical office and sales personnel. This classification includes occasional outside exposure for broadcasting from a remote location. Also included are homeowners' associations and co-ops who operate a central system for residential users.

This classification excludes television cable company field employees engaged in operation, maintenance and extension of lines and subscriber hook-ups who are to be reported separately in classification 1305 and studio or office employees of noncable television broadcasting companies who are to be reported separately in classification 4502-01.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-638, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-638, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-638, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-638, filed 11/9/73, effective 1/1/74.]

WAC 296-17-640 Classification 4504.

4504-00 Theatres

Applies to establishments engaged in the operation of indoor motion picture theatres, drive-in theatres, and live production theatres. This classification includes, but is not limited to, managers, stage hands, box office employees, projectionists, ushers, snack bar employees, parking lot attendants, security guards, sound system and lighting engineers, set builders, clerical office employees, and sales personnel. This classification includes the organization and management of nontheatrical events on theatre-owned property, such as a "swap meet" on the grounds of an outdoor theatre, when done by employees of an employer having operations subject to this classification.

This classification excludes performers in live theatre such as, but not limited to, actors, entertainers, and musicians who are to be reported separately in 6605 or 6620 as applicable; nontheater employees engaged in setting up stage lighting and sound systems who are to be reported separately in classification 0601 or 0608 as applicable; and nontheater employees engaged in building and setting up props and sets who are to be reported separately in classification 0516.

Special note: Theatrical productions often involve independent contractors. The independent contractor tests found in RCW 51.08.180 and 51.08.195 should be applied when reviewing the status of individuals such as, but not limited to, the playwright, composer, set designer, costume designer, lighting and sound designers, and videographer.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-640, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020. 94-24-007, § 296-17-640, filed 11/28/94, effective 1/1/95. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-640, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-640, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-640, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-640, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-640, filed 11/9/73, effective 1/1/74.]

WAC 296-17-641 Classification 4601.

4601-01 Fireworks: Manufacturing

Applies to establishments engaged in the manufacture of fireworks such as, but not limited to, flares, star shells, rockets, firecrackers, and signals used to generate colored lights, smoke, and noise. Incendiary powders, metal salts, components such as metal and cardboard tubes, aluminum cylinders, parachutes, umbrellas, sheet steel carrying shells, glue and wax are received from others. The process involves mixing, repeated screening, drying, blending and aging. The chemicals mixed include an oxidizer which produces the oxygen needed to make it burn fast and hot, a fuel which combines with the oxygen and causes the burning, coloring agents which produce the color, and a binding material which binds all the ingredients together. The composition is weighed and pressed into containers such as, but not limited to, aluminum caps or cardboard shells. The pyrotechnic (or shell) pellet then passes to be assembled with the remainder of the device being manufactured where the fuses are also added. Most processes are done with hand tools such as knives, mallets, and scissors due to the dangers of operating machinery around explosives. Fireworks are classified as either Class B or Class C according to their complexity and amount of explosives; however, they all contain an oxidizer, a fuel and a binder and are extensively regulated by federal agencies.

This classification excludes establishments engaged in the manufacture of explosive powder which are to be reported separately in classification 4601-02; establishments engaged in the manufacture of combined chemicals and explosives which are to be reported separately in classification 4601-03; and the exhibition of fireworks which is to be reported separately in classification 6207.

4601-02 Explosive powder: Manufacturing

Applies to establishments engaged in the manufacture of pyrotechnic, explosive, and incendiary powders from ingredients such as, but not limited to, nitrates, electrolytic copper dust, potassium perchlorate, powdered magnesium, sulfur, charcoal and linseed oil which are received from other sources. According to product being made, specific ingredients are mixed, then ground, screened and blended into powder of varying grains. Powder is filled into kegs, tin cans, or special fiber containers.

This classification excludes establishments involved in the manufacture of fireworks which are to be reported sepa-

rately in classification 4601-01; establishments involved in the manufacture of combined chemicals and explosives which are to be reported separately in classification 4601-03; establishments engaged in chemical manufacturing which are to be reported separately in classification 3701; and establishments involved in blasting operations which are to be reported separately in the applicable classification.

4601-03 Combined chemicals and explosives: Manufacturing

Applies to establishments engaged in the manufacture of combined chemical and explosive products such as, but not limited to, bullets, shotgun shells, caps, fuses, pellets, dynamite, grenades, or other munitions. Raw materials include, but are not limited to, ammonia, nitrates and other chemicals, fertilizer, powders, shell casings, projectiles, and boosters. The process includes screening, grinding, mixing, blending, loading into casings, and packaging for shipment according to product being made. The manufacturing of the casings and loading of the explosives are included in this classification when performed by employees of an employer subject to this classification.

This classification excludes establishments engaged in the manufacture of fireworks which are to be reported separately in classification 4601-01; establishments engaged in the manufacture of explosive powder which are to be reported separately in classification 4601-02; and establishments engaged exclusively in chemical manufacturing which are to be reported separately in classification 3701.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-641, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-641, filed 11/27/85, effective 1/1/86; Order 74-40, § 296-17-641, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-641, filed 11/9/73, effective 1/1/74.]

WAC 296-17-643 Classification 4802.

4802-02 Farms: Berry

Applies to establishments engaged in raising berries of all types. Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, pruning canes, cutting runners, installing posts and wire supports, tying vines, machine harvesting of berries, and installing or maintaining sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes roadside fruit stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately in classification 6403 provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes fresh fruit packing operations which are to be reported separately in classification 2104; fruit cannery or freezer operations which are to be reported separately in classification 3902; winery operations which are to be reported separately in classification 3702; hand harvesting of berries which is to be reported separately in classification 4806; and any contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as, but not limited to, weeding, planting, irrigating, or fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4802-03 Farms: Bulb raising

Applies to establishments engaged in raising flowers and plants for bulbs. Work contemplated by this classification may take place in an open field or a greenhouse. Farming activities include, but are not limited to, preparing soil for new plants; planting, fertilizing, weeding, dead heading or cutting flowers, maintaining or installing sprinkler or irrigation systems, and machine digging and harvesting bulbs when performed by employees of an employer subject to this classification. Any subsequent grading, sorting, packing and shipping of bulbs is included within the scope of this classification as are roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes establishments engaged exclusively in the sale of fresh cut flowers and potted plants who are not involved in the cultivation of plants or flowers which are to be reported separately in classification 6404; hand picking of bulbs which is to be reported separately in classification 4806; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as, but not limited to, weeding, planting, irrigating, or fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4802-06 Picking of forest products, N.O.C.

Applies to establishments engaged exclusively in picking forest products that are not covered by another classifica-

tion (N.O.C.) such as, but not limited to, holly, ferns, cones, cedar boughs, mushrooms, wild flowers, wild berries, moss, and tree bark. Work contemplated by this classification is limited to hand picking operations and is often accomplished through the aid of hand held cutting devices such as pruning shears or saws. Properties from which products are harvested from may be owned or leased. Operations not described above are to be reported separately in the classification applicable to the work being performed.

Special note: The farm labor contractor provision, as described in the general reporting rules, is not applicable to this classification as such establishments are not engaged in a farming operation.

4802-11 Farms: Flower or vegetable seeds

Applies to establishments engaged in raising flowers, flowering plants or vegetable plants for seed. Work contemplated by this classification may take place in an open field or a greenhouse. Farming activities include, but are not limited to, preparing soil for new plants, planting, fertilizing, weeding, machine harvesting seeds, cutting fresh flowers, harvesting incidental fresh vegetables, maintaining or installing sprinkler or irrigation systems, and drying of the seed. Any subsequent grading, sorting, packing and shipping of seeds is included within the scope of this classification as is the incidental sale of fresh cut flowers or vegetables from roadside stands located at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes fresh vegetable packing operations which are to be reported separately in classification 2104; cannery or freezer operations which are to be reported separately in classification 3902; establishments engaged exclusively in the sale of fresh cut flowers and potted plants who are not involved in the cultivation of plants or flowers which are to be reported separately in classification 6404; hand gathering of seeds where no hand held cutting device is used which is to be reported separately in classification 4806; establishments engaged exclusively in the sale of fresh vegetables but are not involved in the cultivation of plants which are to be reported separately in classification 6403; and any contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4802-12 Farms: Field vegetable crops - mechanically harvested

Applies to establishments engaged in raising field vegetable crops *which are mechanically harvested.* Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, pruning, machine harvest of vegetables, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met. Typical crops include the following:

Beans, Green	Cucumbers	Rutabagas
Beets, Table	Parsnips	Squash
Carrots	Radishes	Tomatoes
Corn, Sweet	Rhubarb	Turnips

This classification excludes fresh vegetable packing operations which are to be reported separately in classification 2104; cannery or freezer operations which are to be reported separately in classification 3902; and any contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported in the classification applicable to the work being performed.

Special note: This classification differs from classification 4808 "diversified field crops" in that vegetable crops grown subject to classification 4808 generally have a long growing season and are harvested upon reaching maturity at the end of the season. Vegetable crops grown in classification 4802 are generally planted so that harvesting will occur continuously over the season and in smaller quantities. Although corn is technically a grain crop, it is widely accepted as a vegetable crop when harvested for fresh market as opposed to being left in the field to dry and used as feed, flour, or cereal grain. Corn grown subject to classification 4802 is for a fresh market, cannery or frozen food while the corn grown in classification 4808 is for grain, flour and feed.

The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4802-13 Farms: Flowers - field growing
Farms: Florists - cultivating or gardening

Applies to establishments engaged in raising flowers and flowering plants for sale. Work contemplated by this classification may take place in an open field or a greenhouse. Farming activities include, but are not limited to, preparing soil for new plants, planting, fertilizing, weeding, cutting fresh flowers, and maintaining or installing sprinkler or irrigation systems. Any subsequent grading, sorting, packing and shipping of flowers is included within the scope of this classification as is the incidental collection of flower seed for use in future crops. This classification includes roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes establishments engaged exclusively in the sale of fresh cut flowers and potted plants who are not involved in the cultivation of plants or flowers which are to be reported separately in classification 6404 and any contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808-11 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-643, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-643, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-643, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-643, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-643, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-643, filed 11/27/85, effective 1/1/86; 85-12-024 (Order 85-11), § 296-17-643, filed 5/31/85; 85-06-026 (Order 85-7), § 296-17-643, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-643, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-643, filed 11/30/77, effective 1/1/78; Order 75-38, § 296-17-643, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-643, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-643, filed 11/9/73, effective 1/1/74.]

WAC 296-17-644 Classification 4803.

4803-02 Farms: Orchards - fruit tree crops

Applies to establishments engaged in operating fruit orchards of all types. Work contemplated by this classification includes, but is not limited to, preparing soil for new trees, planting trees, fertilizing, spraying, fumigating, weeding, pruning, harvesting tree fruit, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes fresh fruit packing operations which are to be reported separately in classification 2104; fruit cannery or freezer operations which are to be reported separately in classification 3902; winery operations which are to be reported separately in classification 3702; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: Prune harvesting is often accomplished by a person laying a canvas cover around the base and surrounding area of the tree. The tree is then shaken by hand causing the fruit to dislodge and fall to the canvas cover where it is picked by hand. Harvesting done by this method is subject to classification 4806 provided that the conditions set forth in classification 4806 have been met. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4803-04 Farms: Orchards - nut tree crops

Applies to establishments engaged in operating nut producing orchards of all types. Work contemplated by this classification includes, but is not limited to, preparing soil for new trees, planting trees, fertilizing, spraying, fumigating, weeding, pruning, machine harvesting of nuts, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes the incidental sale of bulk or packaged nuts at roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes nut shelling and packaging operations which are to be reported separately in classification 3902; ground hand picking of nuts which is to be reported separately in classification 4806; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: Nut harvesting is often accomplished by a person laying a canvas cover around the base and surrounding area of the tree. The tree is then shaken by hand causing the nuts to dislodge and fall to the canvas cover where they are picked by hand. Harvesting done by this method is subject to classification 4806 provided that the conditions set forth in classification 4806 have been met. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4803-16 Farms, N.O.C.

Applies to establishments engaged in operating farms not covered by another classification (N.O.C.). Establishments in this classification include holly farms and the raising of sheep, goats, alpacas and llamas. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, pruning and otherwise maintaining trees, tending and feeding animals, raising crops for feed, erecting or mending fences, breeding animals, transporting animals to market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also covers artificial insemination and veterinary care when performed by employees of an employer subject to this classification.

This classification excludes businesses primarily engaged in holly packing or wreath making who are to be reported separately in classification 6404 (florists), and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-644, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-644, filed 5/31/96, effective 7/1/96; 87-24-060 (Order 87-26), § 296-17-644, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-644, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-644, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-644, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-644, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-644, filed 11/30/81, effective 1/1/82; Order 75-38, § 296-17-644, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-644, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-644, filed 11/9/73, effective 1/1/74.]

WAC 296-17-645 Classification 4804.

4804-00 Farms: Poultry

Applies to establishments engaged in operating poultry farms of all types. Poultry farms covered by this classification may be engaged in breeding and raising birds for human consumption or for sale to research laboratories or egg production farms. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, tending, feeding and watering birds, raising crops for feed, erecting or mending fences, cages and pens, breeding birds, cleaning pens and cages, transporting animals to market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification.

This classification excludes feed milling operations which are to be reported separately in classification 2101; the butchering and processing of poultry which is to be reported separately in classification 3304; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4804-03 Farms: Egg production

Applies to establishments engaged in operating egg production farms. Farms covered by this classification may also be engaged in raising brood stock for future egg production or sale to other farms. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, tending, feeding and watering birds, raising crops for feed, erecting or mending fences, cages and pens, breeding birds, cleaning pens and cages, transporting eggs to market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also includes any related packing or grading of eggs by farm employees, farm stand operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations may qualify to have those activities reported separately if the conditions as a multiple business is met.

This classification excludes feed milling operations which are to be reported separately in classification 2101; the butchering and processing of poultry which is to be reported separately in classification 3304; and contractors hired to

install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4804-05 Farms: Fur bearing animals

Applies to establishments engaged in raising fur bearing animals such as mink, fox and chinchilla for pelts (skins) or for sale. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, tending and breeding, feeding and killing animals, fleshing and drying skins, erecting or mending fences, erecting or maintaining kennels or cages, cleaning cages and kennels, and veterinary care when performed by employees of an employer subject to this classification.

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as feeding animals, grooming, and cleaning kennels. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4804-06 Farms: Worm

Applies to establishments engaged in raising worms. Work contemplated by this classification includes, but is not limited to, the preparation of soils and soil mixes, maintaining proper soil moisture to encourage worm growth and reproduction, digging worms, sorting and packaging.

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, preparing soils, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4804-07 Farms: Apiaries (bees)

Applies to establishments engaged in raising honey bees for making honey or for sale to growers or farmers who use them as pollinators or to laboratories or research centers. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, building structures to accommodate bee hives, collecting honey from hives, and growing vegetation and plants to support the production of honey or population of bees. This classification also includes the incidental processing and packaging of honey, honey comb and bees wax and the sale of honey at roadside stands located at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations may qualify to have those activities reported separately if the conditions in the multiple enterprise section of the general reporting rules are met. The raising of insects such as crickets has also been assigned to this classification as is the collection of bees and bee hives from unrelated properties.

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as collecting hives or bees, preparing soils for crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4804-08 Farms: Aviaries (birds)

Applies to establishments engaged in raising all varieties of birds including game birds and exotics such as, but not limited to, emu and ostrich for sale to pet dealers, other aviaries, retail customers, and laboratories or research centers. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, tending, feeding and watering, raising crops for feed or protective covering, erecting or mending fences, cages, coops and pens, breeding birds, cleaning pens, cages and coops, transporting birds to market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also includes any store operations.

This classification excludes feed milling operations which are to be reported separately in classification 2101 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as collecting hives or bees, preparing soils for crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4804-09 Egg grading, candling and packing

Applies to establishments engaged in grading, candling, and packing eggs for either retail or wholesale markets. Work contemplated by this classification includes, but is not limited to, sorting, grading, washing, candling, packing eggs into cartons or crates, and transporting eggs to market. Establishments assigned to this classification are not engaged in raising poultry or operating egg production farms. This classification includes store operations located at or near the packaging facility.

This classification excludes establishments engaged in egg breaking which are to be reported separately in classification 3902.

Special note: The farm labor contractor provision is not applicable to this classification as such establishments are not engaged in a farming operation.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-645, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-645, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-645, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-645, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-645, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-645, filed 11/9/73, effective 1/1/74.]

WAC 296-17-646 Classification 4805.

4805-00 Nurseries, N.O.C.

Applies to establishments not covered by another classification (N.O.C.) that are engaged in the propagation and/or care of trees, shrubs, plants, and flowers pending sales to others. Nurseries can be categorized into two general groups in that some nurseries are actively engaged in the propagation of trees, plants, and shrubs from seed, grafting or cuttings, while others simply buy stock from growers and resell to the public or to commercial customers. Work contemplated by this classification includes, but is not limited to, preparing soil for new trees, shrubs or plants, propagating trees, shrubs or plants, fertilizing, spraying, fumigating, watering and weeding plants, trees and shrubs, pruning trees and shrubs, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes incidental greenhouses which are typically maintained for the purpose of starting new plants, shrubs or trees and protecting plants from weather conditions. Greenhouses may also serve as holding areas for garden supplies, fertilizer, planting containers, and tools which are available for sale to the public. This classification also includes the incidental sale of bark, soils, decorative or crushed rock, and store operations. This classification does not apply to establishments engaged in propagating trees in connection with an orchard operation or Christmas tree farm which are to be reported separately in classification 4803 or classification 7307 as applicable, or to landscaping contractors who may raise plants, trees or shrubs to be used in connection with their own landscaping jobs who are to be reported separately in classification 0301 or 0308 as applicable.

This classification excludes establishments engaged in growing and harvesting flowers for sale to others which are to be reported separately in classification 4802 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4805-05 Nurseries: Tree

Applies to establishments engaged in the propagation and/or care of trees for sale. Nurseries can be categorized into two general groups in that some nurseries are actively engaged in the propagation of trees from seed and grafting while others simply buy stock from growers and resell to the public or commercial customers. Work contemplated by this classification includes, but is not limited to, preparing soil for new trees, propagating trees, fertilizing, spraying, fumigating, watering, weeding, and pruning trees, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes incidental greenhouses which are typically maintained for the purpose of starting new trees and protecting them from weather conditions. Greenhouses may also serve as holding areas for garden supplies, fertilizer, planting containers, and tools which are available for sale to the public. This classification also includes the incidental sale of beauty bark, soils, decorative or crushed rock, and store operations.

This classification excludes establishments engaged in propagating trees in connection with an orchard operation or Christmas tree farm which are to be reported separately in classification 4803 or classification 7307 as applicable; landscaping contractors who may raise trees to be used in connection with their landscaping jobs who are to be reported separately in 0301 or 0308 as applicable; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor

contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4805-06 Farms: Sod growing

Applies to establishments engaged in raising lawn sod for sale. Work contemplated by this classification includes, but is not limited to, preparing soil for new grass, planting grass seed, fertilizing, spraying, fumigating, watering, weeding, mowing grass, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. Sod farms may sell directly to the public from the farm or through landscape dealers and contractors.

This classification excludes the installation of sod at a customer's location; landscaping contractors who may raise sod to be used in connection with their landscaping jobs; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported in separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4805-07 Farms: Aquatic plants

Applies to establishments engaged in the propagation of aquatic plants for sale. Work contemplated by this classification includes, but is not limited to, preparing aquatic tanks, fresh water ponds or salt water growing areas for new plants, care of aquatic growing beds including chemical treatments of beds to eliminate undesirable vegetation, and harvesting and packaging plants when performed by employees of an employer subject to this classification. Aquatic farms may sell plants directly to the public from the farm or through dealers and unrelated stores. This classification includes farm store operations.

This classification excludes establishments engaged in the harvesting, processing, or packaging of aquatic plants obtained from natural areas, where the husbandry of the resource is not an integral part of the operation, which are to be reported separately in classification 3304 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4805-08 Farms: Shellfish - hand harvesting

Applies to establishments engaged in the propagation, and hand harvesting, of shellfish for sale. Work contemplated by this classification includes, but is not limited to, preparing aquatic tanks or salt water growing areas for shellfish; care of aquatic growing beds including chemical treatments of beds to eliminate undesirable vegetation; and harvesting, shucking and packaging shellfish when performed by employees of an employer subject to this classification. Shellfish farms may sell directly to the public from a farm stand or store, located at or near the farm, or to dealers and unrelated stores.

This classification excludes establishments engaged in the harvesting, processing or packaging of shellfish obtained from natural areas where the husbandry of the resource is not an integral part of the operation which are to be reported separately in classification 3304 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special notes: The distinction between risks assigned to this classification (4805-08) and those which are to reported separately in classification 4808 is in the harvesting process. Risks subject to classification 4805 are engaged in hand harvesting activities which includes the use of hand held tools while those assigned to classification 4808 are engaged in mechanical harvesting activities by way of dredging operations. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as seeding of larvae to mother shells and planting shells to natural waters. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4805-09 Christmas tree sales from U-cut or retail sales lots

Applies to establishments engaged in retail sales of Christmas trees. Work contemplated by this classification is limited to placing trees in stands or on racks for display purposes, showing trees to retail customers, cashiering, monitoring and directing traffic in the sales lot area, and loading trees into customer vehicles. Tree sales may be conducted at a farm location as in the case of a U-cut tree operation or at a seasonal sales lot.

This classification excludes all farming operations such as, but not limited to, preparation of soil for new trees, propagating and planting trees, fertilizing, spraying, fumigating, watering, weeding, pruning, and harvesting of trees, maintaining or installing sprinkler or irrigation systems which are to be reported separately in classification 7307; Christmas tree wholesalers and Christmas tree baling and packing operations which are to be reported separately in classification 7307; and contractors hired to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special notes: Establishments assigned to this classification (4805-09) should report hours in this classification *only during the fourth quarter of each year* since these sales are confined to the Christmas season. The farm labor contractor provision is not applicable to this classification as such establishments are not engaged in a farming operation.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-646, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-646, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-646, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-646, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-646, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-646, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-646, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-646, filed 11/27/78, effective 1/1/79; Order 75-38, § 296-17-646, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-646, filed 11/9/73, effective 1/1/74.]

WAC 296-17-647 Classification 4806.

4806-01 Farms: Nuts, berries, prunes, or field flowers and bulbs - hand harvesting

Applies to those employees of an employer who are engaged *exclusively* in hand harvesting nuts, berries, prunes, or field flowers or bulbs. This classification is limited to the harvest of crops which are picked from trees or from the ground, by hand and by a worker either sitting, kneeling, bending, stooping, or standing on the ground. This classification excludes any operation where ladders, stools, or other climbing devices are used; all operations where harvesting is accomplished or aided with hand held cutting devices or tools, and any mechanical picking or harvesting equipment including incidental workers who may or may not follow behind such machinery and collect the harvested crops by hand; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: Refer to classification 4802 for berry or flower and bulb raising operations and to classification 4803 for orchard operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-647, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-647, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-647, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-647, filed 11/30/83, effective 1/1/84; Order 76-36, § 296-17-647, filed 11/30/76; Order 75-38, § 296-17-647, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-647, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-647, filed 11/9/73, effective 1/1/74.]

WAC 296-17-649 Classification 4808.

4808-01 Farms: Diversified field crops

Applies to establishments engaged in growing a variety of grain, vegetable, or grass crops during a single season. Work contemplated by this classification includes, but is not limited to, preparing the soil for new crops, planting, fertilizing, weeding, harvesting, and maintaining or installing sprinkler or irrigation systems. Any subsequent grading, sorting, packing and shipping of farm products grown subject to this classification is included within the scope of this classification. This classification includes roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met. Typical crops include the following:

Alfalfa	Garlic	Potatoes
Barley	Grain	Rye
Beans, Dry	Grass Seed	Sugar Beets
Clover	Hay	Timothy
Corn	Peas, Dry	Wheat

This classification excludes fresh vegetable packing operations which are to be reported separately in classification 2104; cannery or freezer operations which are to be reported separately in classification 3902; establishments engaged exclusively in the sale of fresh vegetables who are not involved in the cultivation of plants which are to be reported separately in classification 6403; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: This classification differs from classification 4802 "vegetable farm operations" in that vegetable crops grown subject to classification 4808 generally have a long growing season and are harvested upon reaching maturity at the end of the season. Vegetable crops grown in classification 4802 are generally planted so that harvesting will occur continuously over the season and in smaller quantities. See classification 4802-12 for additional information. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4808-02 Farms: Alfalfa, clover and grass seed

Applies to establishments engaged exclusively in raising alfalfa, clover, and grass crops for seed. Work contemplated by this classification includes, but is not limited to, preparing soil for crops, planting, fertilizing, machine harvesting, maintaining or installing sprinkler or irrigation systems, and dry-

ing of seed. Any subsequent grading, sorting, packing and shipping of seeds is included within the scope of this classification. Also included is the incidental sale of farm products from roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes establishments engaged in grading, sorting, and packaging seeds; or selling baled alfalfa or clover who are not engaged in growing operations which are to be reported separately in classification 2101; establishments engaged exclusively in grain or seed storage who are not engaged in growing operations which are to be reported separately in classification 2007; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4808-04 Farms: Hay

Applies to establishments engaged exclusively in raising hay or straw grass for sale, and includes the raising of such crops for seed. Work contemplated by this classification includes, but is not limited to, preparing soil for crops, planting, fertilizing, machine harvesting, maintaining or installing sprinkler or irrigation systems, and drying of seed. Any subsequent grading, sorting, packing and shipping of seeds is included within the scope of this classification. Also included is the incidental sale of farm products from roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes establishments engaged in grading, sorting, and packaging seeds, or selling baled hay who are not engaged in growing operations which are to be reported separately in classification 2101 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4808-06 Farms: Cereal grain

Applies to establishments engaged in growing cereal grain crops. Work contemplated by this classification includes, but is not limited to, preparing the soil for new crops, planting, fertilizing, weeding, harvesting, and maintaining or installing sprinkler or irrigation systems. Any subsequent grading, sorting, packing and shipping of farm products grown subject to this classification is included within the scope of this classification. Also included is the incidental sale of farm products from roadside stands or operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met. Typical cereal grain crops include the following:

Barley	Rye
Corn	Wheat

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special notes: See classification 4802-12 for additional information relative to corn. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4808-07 Potato sorting and storage

Applies exclusively to establishments engaged in sorting and storing potatoes. Work contemplated by this classification is limited to sorting potatoes either in the field or at a storage warehouse; and packaging and storage of potatoes. For purposes of this classification, packaging is limited to putting potatoes into bags, bins, boxes, or sacks. This classification also includes potato digging and piling when per-

formed by employees of an employer engaged in sorting and storing potatoes but who is not engaged in growing potatoes.

This classification excludes fresh vegetable packing operations which are to be reported separately in classification 2104; cannery or freezer operations which are to be reported separately in classification 3902; potato chip manufacturing which is to be reported separately in classification 3906; establishments engaged exclusively in the sale of fresh vegetables who are not involved in the cultivation of plants which are to be reported separately in classification 6403; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The farm labor contractor provision is not applicable to this classification as such establishments are not engaged in a farming operation.

4808-08 Custom hay baling

Applies exclusively to a specialist farm labor contractor engaged in mowing, turning, and baling hay owned by others. This classification also includes the incidental loading of hay onto trucks and stacking of hay in a barn or warehouse when performed by employees of a specialist farm labor contractor engaged in mowing, turning, and baling hay for others.

Special note: The farm labor contractor provision is not applicable to this classification as such establishments are not engaged in a farming operation.

4808-10 Farms: Shellfish - mechanical harvesting

Applies to establishments engaged in the propagation of shellfish for sale and includes the subsequent harvest of shellfish by means of mechanical dredging operations. Work contemplated by this classification includes spawning of shellfish, seeding in controlled tanks, placement of shellfish into deep water growing beds, harvesting, and processing. Harvesting, processing, and packing of shellfish by a farm labor contractor is included in this classification provided that the shellfish being harvested were grown by an establishment subject to this classification. This classification includes the sale of shellfish at roadside stands operated at or near the business location and store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Businesses operating multiple retail locations may qualify to have those activities reported separately if all the conditions of the general reporting rule covering the operation of a secondary business have been met.

This classification excludes establishments engaged in the harvesting, processing or packaging of shellfish obtained from natural areas where the husbandry of the resource is not an integral part of the operation which are to be reported separately in classification 3304 and contractors hired by a shellfish grower to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The distinction between establishments assigned to classification 4808 and those which are to reported separately in classification 4805 is in the harvesting process. Establishments subject to classification 4805 are engaged in hand harvesting activities which includes the use of hand held tools while those assigned to classification 4808 are engaged in mechanical harvesting activities by way of dredging operations. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as seeding of larvae to mother shells and planting shells to natural waters. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to.

4808-11 Custom farm services by contractor

Applies exclusively to contractors engaged in supplying and operating agricultural machinery and equipment at their customer's locations. Work contemplated by this classification involves preparing fields for crops, planting and cultivating crops, fertilizing, and harvesting operations using machinery and equipment such as, but not limited to, tractors, plows, fertilizer spreaders, combines, reapers, potato diggers, boom loaders and pickers. Contractors subject to this classification are generally not responsible for the overall care of the crops, but are merely hired to provide specified services, which involve the use of machinery and employee equipment operators. This classification also includes seasonal agricultural produce hauling from the field to a processing or storage plant when performed by employees of an employer not engaged in the related farming operations associated with the crop being hauled.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-649, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-649, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-649, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-649, filed 11/27/85, effective 1/1/86; 85-12-024 (Order 85-11), § 296-17-649, filed 5/31/85; 85-06-026 (Order 85-7), § 296-17-649, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-649, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-649, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-649, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-649, filed 11/9/73, effective 1/1/74.]

WAC 296-17-64901 Classification 4809.

4809-01 Greenhouses, N.O.C.

Applies to establishments engaged in raising plants exclusively within greenhouses not covered by another classification (N.O.C.). Such establishments may specialize in growing only indoor, outdoor, or vegetable plants, while others will grow all types. The primary distinction between classification 4809 and other classifications where similar plants are grown is the exclusive use of greenhouses for the growing operations. Establishments subject to this classification will not have outdoor growing fields. All growing areas are confined to greenhouse operations. Work contemplated by this classification includes, but is not limited to, preparation of soils, planting seeds or cuttings into pots and trays, and watering and fertilizing plants. This classification includes related sales of plants and store operations.

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or

structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4809-04 Farms: Mushrooms

Applies to establishments engaged in the raising and harvesting of mushrooms for sale. Work contemplated by this classification includes, but is not limited to, preparation and sterilization of compost material, seeding composted trays, monitoring humidity and temperature controlled growing rooms, moving trays from growing rooms, harvesting mushrooms, and grading and sorting mushrooms. This classification also includes fresh packing of mushrooms for sale to others.

This classification excludes all cannery or freezer operations which are to be reported separately in classification 3902 and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported separately in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4809-05 Farms: Sprouts

Applies to establishments engaged in the raising and harvesting of bean and alfalfa sprouts using hydroponic growing methods. Hydroponics growing is a method whereby vegetable crops are raised in trays and tanks within a temperature controlled building in a water solution containing inorganic nutrients. Work contemplated by this classification includes, but is not limited to, preparation and cleaning of tanks and trays, preparation of water solutions, planting of seed into water solution, harvesting, and packaging of crops.

This classification excludes contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors that supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64901, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64901, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-64901, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-64901, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-64901, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-64901, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-64901, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-64901, filed 11/27/78, effective 1/1/79.]

WAC 296-17-64902 Classification 4810.

4810-00 Farms: Field vegetables and herbs, N.O.C. - hand harvesting

Applies to establishments engaged in raising vegetables and herbs *which are harvested by hand* for sale and which are not covered by another classification (N.O.C.). Harvesting by hand could include the use of a hand-held cutting tool. Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, pruning, hand harvest of vegetables, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes the incidental sale of fresh vegetables from roadside stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately provided all the conditions of the general reporting rules covering the operation of a secondary business are met. Typical crops include the following:

Asparagus	Carrots	Lettuce	Rutabagas
Beans, Green	Cauliflower	Onions, Green	Spinach
Beets, Table	Celery	Parsnips	Squash
Broccoli	Corn, Sweet	Peppers	Tomatoes
Brussels Sprouts	Cucumbers	Radishes	Turnips
Cabbage	Kale	Rhubarb	

This classification excludes fresh vegetable packing operations which are to be reported separately in classification 2104; cannery or freezer operations which are to be reported separately in classification 3902; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special notes: This classification differs from classification 4802 "field vegetable crops" in that vegetable crops grown subject to classification 4802 are machine harvested or harvested using a combination of machine and hand labor while vegetable crops covered in classification 4810 are harvested exclusively by hand. See classification 4802-12 for additional information. The term "farm labor contractor"

applies to specialty contractors that supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64902, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64902, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-64902, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-64902, filed 12/1/87, effective 1/1/88; 86-12-041 (Order 86-18), § 296-17-64902, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-64902, filed 11/27/85, effective 1/1/86.]

WAC 296-17-64903 Classification 4811.

4811-00 Farms: Hops

Applies to establishments engaged in raising hops for sale. Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, installing poles and wires, maintaining or installing sprinkler or irrigation systems, harvesting hops, the initial drying and baling, and all other operations incidental to the activity described above when done by employees of an employer subject to this classification. Any further processing of hops after the initial drying and baling is excluded.

This classification excludes establishments engaged in the production of hop pellets which are to be reported separately in classification 2101; establishments engaged in the manufacture of a liquid hop extract which are to be reported separately in classification 3701; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special notes: Hops is one of several ingredients used to flavor beer. Extra care should be taken when dealing with hop farms and processing plants to verify the operation and applicable classification. The term "and all other operations incidental to the activity described above" refers only to maintenance type work like mending fences, fixing or servicing kiln dryers, and working on tractors and equipment. The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

4811-01 Farms: Mint

Applies to establishments engaged in raising mint for sale. Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, maintaining or installing sprinkler or irrigation systems, harvesting mint, and mint distillation when performed by employees of an employer subject to this classification.

This classification excludes establishments engaged exclusively in the distillation of mint leaves to obtain a mint extract or mint oil who are not engaged in the raising of mint crops, which are to be reported separately in classification 3701, and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64903, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64903, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-64903, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-64903, filed 11/27/85, effective 1/1/86.]

WAC 296-17-64904 Classification 4812.

4812-00 Farms: Fin fish and shell fish hatcheries

Applies to establishments engaged in hatchery operations for the raising of fin or shellfish, or their eggs. Work contemplated by this classification includes, but is not limited to, spawning of larvae, growing and testing algae (food for shellfish in larvae stage), seeding of shells in tanks, loading of seeded shells for shipment or transportation to natural waters, spawning fin fish, harvesting, and management of water flow temperature and exchange rate, and laboratory work when performed by employees of an employer subject to this classification. The term "harvest" includes the sale of seeded shells, larvae, fish eggs, and whole fish.

This classification excludes the placement of seeded shells or larvae into natural waters, harvesting of mature shellfish or the related processing and packaging of shellfish which are to be reported separately in classification 3304, 4805, or 4808 as applicable, and contractors hired by a farm operator to install, repair or build any hatchery equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: See classifications 4805 and 4808 for related information. The farm labor contractor provision is not applicable to this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64904, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64904, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-64904, filed 12/1/89, effective 1/1/90. Statutory

Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-64904, filed 11/27/85, effective 1/1/86.]

WAC 296-17-64905 Classification 4813.

4813-00 Vineyards

Applies to establishments engaged in the planting, cultivating, pruning, and harvesting of grapes. Work contemplated by this classification includes, but is not limited to, preparing soil for new plants, planting, fertilizing, weeding, pruning vines, installing posts and wire supports, tying vines, machine or hand harvest of grapes, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification includes roadside fruit stands operated at or near the farm and farm store operations where a small stock of products not produced by the operation subject to this classification may also be offered for sale. Farms operating multiple retail locations, such as those found in parking lots of shopping centers or at farmer's markets, may qualify to have those activities reported separately in classification 6403 provided all the conditions of the general reporting rules covering the operation of a secondary business are met.

This classification excludes fresh fruit packing operations which are to be reported separately in classification 2104; fruit cannery or freezer operations and jam or syrup manufacturing which are to be reported separately in classification 3902; winery operations which are to be reported separately in classification 3702; and contractors hired by a farm operator to install, repair or build any farm equipment or structures who are to be reported separately in the classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors that supply laborers to a farm operation for specified services such as weeding, planting, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. These farm labor contractors are to be reported in the classification that applies to the farm they are contracting with. Contractors that provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64905, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64905, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-64905, filed 5/31/91, effective 7/1/91.]

WAC 296-17-64999 Classification 4900.

4900-00 Construction: Superintendent or project manager

Applies to those employees, of general or specialty construction contractors, whose job duties are exclusively that of construction superintendents or project managers. Construction superintendents spend some time in an office and spend the remainder of time visiting various job sites to confer with construction foreman to keep track of the progress occurring at each construction site or project location. Project managers are generally stationed at the construction site or project location and confined to a temporary type of office to schedule activities and arrival of supplies such as the delivery of iron, steel, rebar, lumber, concrete ready mix, concrete pump truck services, and cranes.

This classification excludes construction superintendents or project managers who are employed by a business that specializes in offering construction management and consulting services. These businesses do not do any of the actual construction or erection activities and are to be reported separately in classification 4901.

Special notes: This classification is applicable *only* to construction superintendents or project managers who have no direct control over work crews and do not perform construction labor at the construction site or project location. A superintendent or project manager performing duties subject to this classification who also is engaged in operating equipment, performing manual labor, or who directly supervises a work crew at the construction site or project location is excluded from this classification. They are to be reported separately in the applicable construction or erection classification assigned to their employer without any division of hours. *A division of hours is not permitted between classification 4900 and any other classification.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-64999, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-64999, filed 5/31/96, effective 7/1/96.]

WAC 296-17-650 Classification 4901.

4901-00 Consulting engineering Architectural services, N.O.C.

Applies to establishments engaged in providing consulting engineering services, construction management or consulting services, or architectural services not covered by another classification (N.O.C.). Engineers consult with and give technical advice to clients through the use of plans, maps, charts, specifications or other media. They may specialize in particular fields of endeavor such as aeronautical, chemical, civil, electrical, industrial, marine, mechanical or structural engineering. Engineers may research, design and develop a plan, a part, a piece of equipment, or a structure and may also build prototypes and models. Architects research, plan and design building projects for clients, applying knowledge of design, construction procedures, zoning and building codes, and building materials. They may enlist the services of engineers to provide specialized technical services or to solve specific problems. Architects may specialize in certain types of facilities such as hotels, hospitals, or industrial plants, or in the restoration of older structures, or may confine their practice to residential work. They also may be involved in the design of transportation facilities, public assembly complexes, marine or public utility projects. This classification includes employees of engineering or architectural services who perform surveys or who act as project managers or project superintendents for their employer's engineering or architectural projects. Businesses which specialize in offering construction management and/or consulting services, which are not involved in designing, engineering, or any of the actual construction activities, are also included in this classification.

This classification excludes draftsmen whose duties are limited to office work, who may be reported separately in

classification 4904 provided the conditions set forth in the standard exception rule have been met, and the engineering and architectural staff of construction companies or other types of businesses who are to be reported in the classifications applicable for those businesses.

Special note: When assigning classifications 4901 or 1007, care must be taken to look beyond the words "consulting" or "engineering" to determine the actual nature of the activities being performed. Classifications 4901 and 1007 shall not be assigned to the same business unless all the conditions of the general reporting rules covering the operation of a secondary business have been met.

4901-16 Geologists, N.O.C.

Applies to establishments engaged in providing geological services, including oil or gas geologists or scouts and lease buyers performing work similar to oil geologists, not covered by another classification. Geologists study the composition, structure, and history of the earth's crust to identify and determine the sequence of processes affecting the development of the earth. By applying knowledge of chemistry, physics, biology and mathematics to explain these phenomena, they help locate mineral, geothermal, petroleum, and underground water resources. They will consult with and give technical advice to clients based on their findings. Projects may include, but are not limited to, landslide analysis and correction, rock slope design, rock fall mitigation and control, and soil cut and embankment design. They also prepare geologic reports and maps, interpret research data, recommend further study or action, and may participate in environmental studies. Duties of oil or gas geologists or scouts and lease buyers include, but are not limited to, reviewing court records, interviewing lease holders, securing data for prospective oil or gas producing land, as well as procuring core or shale samples at drilling locations for analyzing. The oil or gas geologist also may explore and chart stratigraphic arrangement and structure of the earth to locate gas and oil deposits, evaluate results of geophysical prospecting, prepare maps and diagrams indicating probable deposits of gas and oil, as well as estimate oil reserves in proven or prospective fields and visit drilling sites. Scouts keep the client company informed of events in their region, attend local meetings, and report the findings on work.

This classification excludes geophysical exploration which is to be reported separately in classification 1007; seismic geophysical exploration which is to be reported separately in classification 0103; and geologists or scouts of a drilling or construction contractor who are to be reported separately in the classification applicable to the employer's business.

Special note: When assigning classifications 4901-16, geologists, 1007-08, geophysical exploration, and 0103, seismic geophysical exploration, care must be taken to look beyond the word "geologist" to determine the actual nature of the activities being performed.

4901-17 Land surveying services, N.O.C.

Applies to establishments engaged in providing professional land surveying services not covered by another classification (N.O.C.). Land surveyors measure the size and physical characteristics of earth surfaces to determine precise location and measurements of points, elevations, lines, areas, contours and boundaries for private, public, and commercial applications. Some firms also perform marine, mine, forestry, geological and photogrammetric surveys which utilize sophisticated instruments and techniques, including aerial photography. The field data collected by surveyors may be used to produce maps and architectural and civil engineering plans and drawings. Maps and drawings may be produced by drafters who plot out the field data by hand or by using computer-aided drafting programs.

This classification excludes draftsmen whose duties are limited to office work, who may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met, and surveyors employed by construction companies or other types of businesses who are to be reported separately in the applicable classifications for those businesses.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-650, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-650, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-650, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-650, filed 2/28/85, effective 4/1/85; 82-24-047 (Order 82-38), § 296-17-650, filed 11/29/82, effective 1/1/83; Order 75-38, § 296-17-650, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-650, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-650, filed 11/9/73, effective 1/1/74.]

WAC 296-17-651 Classification 4902.

4902-00 State government - administrative, clerical, and sales personnel

Applies to those state employees who are assigned to work in an administrative capacity, a clerical office, or in public relations or sales work. For the purposes of this classification, field exposure is to the normal travel to a work assignment such as a field auditor or social worker would encounter. This classification includes all departments, agencies, boards, commissions, committees and elected officials of all branches of state government.

This classification excludes employees with field exposure other than that described above, employees with law enforcement powers, and employees who provide patient health care.

See classifications 4906, 5307, 7103, and 7201 for other state government activities.

Special note: For purposes of this classification the terms "clerical office" and "sales personnel" shall have the same meaning as defined in the standard exception provision of the general reporting rule.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-651, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-651, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-651, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-651, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-651, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-651, filed 11/30/79, effective 1/1/80; Order 73-22, § 296-17-651, filed 11/9/73, effective 1/1/74.]

WAC 296-17-652 Classification 4903.

4903-06 Marine appraising

Applies to establishments engaged in providing marine appraisal services. Type of property appraised includes, but is

not limited to, boats, yachts, marinas, wharves, and drydocks. This service may be provided to a prospective buyer or to insurance companies for determining the value of a piece of property or for evaluating damage.

This classification excludes maritime appraisers who provide their service exclusively to insurance companies who are to be reported separately in classification 4903-09, and nonmaritime building appraisers who are to be reported separately in the classification applicable to the employer's business.

4903-07 Boiler inspecting, N.O.C.

Applies to establishments engaged in providing boiler inspection services not covered by another classification (N.O.C.). These establishments inspect pressurized vessels, including air tanks and liquefied gas tanks, in addition to boilers. The inspections involve determining if a vessel conforms to safety standards in regard to their design, fabrication, installation, repair and operation. The inspections may take place at a manufacturer's plant or where the vessel has been installed. These inspections will generally be conducted at the request of a manufacturer or an insurance company. Activities of the inspectors include, but are not limited to, inspecting the safety devices and welding, performing tests to verify the condition, calculating allowable limits of pressure, recommending changes to correct unsafe conditions, and investigating accidents involving pressurized vessels.

This classification excludes boiler inspectors employed by a state agency or municipality who are to be reported separately in the appropriate state agency or municipality classification; boiler manufacturing, repair or installation which is to be reported separately in the appropriate manufacturing, repair or installation classification; inspectors of the manufacturing company who are to be reported separately in the classification applicable to the employer's business; and establishments who provide inspections exclusively for insurance companies who are to be reported separately in classification 4903-09.

4903-08 Elevator inspecting

Applies to establishments engaged in providing elevator inspection services. Types of devices inspected include, but are not limited to, elevators, escalators, ski lifts, amusement rides and moving sidewalks. The inspections involve determining if the device conforms to safety standards in connection with their design, fabrication, installation, repair and operation. The inspections may take place at the manufacturing plant or where the conveyance device has been installed. These inspections are usually conducted at the request of a manufacturer or an insurance company. Activities of the inspectors include, but are not limited to, reviewing the design, inspecting the mechanical and electrical features, inspecting the cables and guide rails, conducting time tests for speed, computing allowable load, observing running and drop tests to determine if brakes and safety devices are working properly, recommending changes to correct unsafe conditions, and investigating accidents involving conveyance devices.

This classification excludes elevator inspectors employed by a state agency or municipality who are to be reported separately in the appropriate state agency or municipality classification; repair or service to the elevator or conveyance device which is to be reported separately in the appropriate repair classification assigned to the type of conveyance device; inspectors employed by the manufacturer who are to be reported in the appropriate manufacturing classification; and establishments who provide inspection exclusively for insurance companies who are to be reported separately in classification 4903-09.

4903-09 Inspection for insurance or valuation

Applies to establishments engaged in providing inspection and valuation services exclusively for insurance companies. These establishments inspect damaged goods or property for loss valuation or to determine the value of an article or property the insurance company is underwriting. The property inspected includes, but is not limited to, personal property, real estate, and manufactured goods.

This classification excludes inspectors employed by a state agency or municipality who are to be reported separately in the appropriate state agency or municipality classification and boiler, elevator, or building inspectors or maritime appraisers who do not provide the service to insurance companies exclusively who are to be reported separately in classifications 4903-07, 4903-08, 4903-10 or 4903-06 as applicable and employees of insurance companies who are to be reported separately in the applicable classifications.

4903-10 Inspection of buildings

Applies to establishments engaged in providing building inspection services. These establishments inspect all types of buildings including new or existing residential, commercial, industrial, multifamily, and temporary structures. The inspections may be provided for prospective buyers to determine the condition of the building, for contractors to assist in interpreting legal requirements and recommending procedures for compliance, or for insurance companies in assessing damages. Activities of the inspectors include, but are not limited to, inspecting all components of a building for structural soundness, dry rot, pest problems, energy efficiency, and compliance with grading, zoning and safety laws.

This classification excludes building inspectors employed by a state agency or municipality who are to be reported separately in the appropriate state agency or municipality classification and establishments who provide inspections exclusively for insurance companies who are to be reported separately in classification 4903-09.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-652, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-652, filed 11/27/85, effective 1/1/86; 81-24-042 (Order 81-30), § 296-17-652, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-652, filed 11/13/80, effective 1/1/81; Order 73-22, § 296-17-652, filed 11/9/73, effective 1/1/74.]

WAC 296-17-653 Classification 4904.

4904-00 Clerical office, N.O.C.

Applies to those employees whose job duties and work environment meet *all* the conditions of the general reporting rules covering clerical office standard exception employees who are not covered by another classification (N.O.C.) assigned to their employer's account. Duties of clerical office personnel contemplated by this classification are limited to

answering telephones, handling correspondence, creating or maintaining financial, employment, personnel or payroll records, composing informational material on a computer, creating or maintaining computer software, and technical drafting.

Special note: When considering this classification, care must be taken to look beyond titles of employees. Employees with occupational titles such as, but not limited to, cashiers, clerks, or ticket sellers, may or may not qualify for this classification. This is a restrictive classification; the qualifying factor is that all the conditions of the general reporting rules covering standard exception employees have been met.

4904-13 Clerical office: Insurance companies, agents or brokers

Applies to clerical office employees of insurance companies, including insurance agents or brokers who perform duties exclusively of clerical nature and without an interchange of labor between clerical and nonclerical duties, and that these duties be performed in an area or areas separated from the operative hazards of the business. This classification is limited to duties defined as responding to telephone inquiries, assisting walk-in customers, handling correspondence such as the preparation of insurance policies and billing, receiving and processing payments and invoices, maintaining personnel and payroll records, and performing the necessary computer work.

Special note: This is a standard exception classification and is not to be assigned unless all the conditions of the general reporting rule covering clerical office standard exception employees have been met. Care should be exercised as insurance agents, insurance brokers, or insurance solicitors defined in RCW 48.17.010, 48.17.020, and 48.17.030, may be exempt employment as defined in RCW 51.12.020(11). In some instances, an insurance company may qualify for this standard exception classification for their entire operation.

4904-17 Clerical office: Employee leasing companies

Applies to clerical office employees of employee leasing companies. This classification requires that clerical office employees perform duties exclusively of a clerical nature, without an interchange of labor between clerical and nonclerical duties, and that these duties be performed in an area or areas separated from the operative hazards of the business. This classification is limited to duties defined as responding to telephone inquiries, receptionist and administrative duties, handling correspondence such as preparing and processing billing statements and forms, maintaining personnel and payroll records, and performing the necessary computer entry work.

Special note: This is a standard exception classification and is not to be assigned unless all the conditions of the general reporting rule covering clerical office standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-653, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-653, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-653, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-653, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-653, filed 11/9/73, effective 1/1/74.]

WAC 296-17-654 Classification 4905.

4905-04 Hotels or motels

Applies to establishments engaged in providing lodging and associated services to others. Accommodations included in this classification vary from a single room in a "bed & breakfast, " to individual cabins, to luxury suites in a multistory hotel. Hotel and motel operations may include a wide range of activities which are within the scope of this classification such as, but not limited to, housekeeping, laundry, bellhops, valets, shuttle service, maintenance personnel, and continental breakfast (if not in connection with a separate restaurant operation). Hotel and motel desk clerks with no other duties can be reported separately in classification 4904. Multiple classifications may be allowed for operations such as, but not limited to, shops, beauty salons, grocery stores, drug stores, newsstands, and service stations, provided no interchange of labor exists between operations. When an interchange of labor exists, the operations are to be assigned to classification 4905-04 without a division of hours.

This classification excludes restaurant and lounge employees which are to be reported separately in classification 3905 and other operations conducted by independent concessionaires which are to be reported separately in the applicable services or store classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-654, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-654, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-654, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-654, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-654, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-654, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-654, filed 11/30/81, effective 1/1/82; Order 76-36, § 296-17-654, filed 11/30/76; Order 73-22, § 296-17-654, filed 11/9/73, effective 1/1/74.]

WAC 296-17-655 Classification 4906.

4906-01 Institutions of higher education - public

Applies to *public* institutions of higher education such as universities, colleges, and junior colleges that have obtained state accreditation and are supported at least in part by public funds. Work contemplated by this classification includes, but is not limited to, administrative staff, professors/teachers, advisors, librarians, athletic coaches, medical staff at a hospital or research center run as part of the institution, restaurant/snack shop staff, campus security, janitorial/maintenance staff, clerical office and sales personnel.

This classification excludes private institutions of higher education which are to be reported separately in classification 4906-02 and secondary technical or vocational schools which are to be reported separately in classifications 6103 and 6104.

4906-02 Institutions of higher education - private

Applies to *private* institutions of higher education such as universities and colleges that have obtained state accreditation. These private institutions include any institution of higher education that is not supported by public funds. Work contemplated by this classification includes, but is not limited to, administrative staff, professors/teachers, advisors, librarians, athletic coaches, medical staff at a hospital or research center run as part of the institution, restaurant/snack shop staff, campus security, janitorial/maintenance staff, and clerical office.

This classification excludes public institutions of higher education which are to be reported separately in classification 4906-01 and secondary technical or vocational schools which are to be reported separately in classifications 6103 and 6104.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-655, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-655, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-655, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-655, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-655, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-655, filed 11/9/73, effective 1/1/74.]

WAC 296-17-656 Classification 4907.

4907-00 Inmate work opportunity - state

Applies to state prisoners who are employed by the state prison in a tax reduction industry to provide goods or services only (regardless of the type) to tax-supported entities or nonprofit organizations. Tax reduction industries provide basic work training and experience which qualify the inmates for better work within the prison or in the public community. Work is performed at the prison or at a separate location and the goods produced are property of the state.

This classification excludes work done by state prisoners under a free venture enterprise contract with a private business (profit or nonprofit) which is to be reported separately in the classification applicable to the work being performed.

4907-01 Inmate work opportunity - city

Applies to inmates of city jails who are employed by the city jail in a tax reduction industry to provide goods or services only (regardless of the type) to tax-supported entities or nonprofit organizations. Tax reduction industries provide basic work training and experience which qualify the inmates for better work within the jail or in the public community. Work is performed at the jail or at a separate location.

This classification excludes work done by city prisoners under a free venture enterprise contract with a private business (profit or nonprofit) which is to be reported separately in the classification applicable to the work being performed.

4907-02 Inmate work opportunity - county

Applies to inmates of county jails who are employed by the county jail in a tax reduction industry to provide goods or services only (regardless of the type) to tax-supported entities or nonprofit organizations. Tax reduction industries provide basic work training and experience which qualify the inmates for better work within the jail or in the public community. Work is performed at the jail or at a separate location.

This classification excludes work done by county prisoners under a free venture enterprise contract with a private business (profit or nonprofit) which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-656, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-656, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-656, filed 11/9/73, effective 1/1/74.]

WAC 296-17-657 Classification 4908.

4908-00 Inmates of adult honor camps

Applies to inmates of adult honor camps who are employed by a city, town, county, or state agency. Their employment, which takes place away from the honor camp, provides basic work training and experience to qualify inmates for better work in the correctional institute or in the public community. Typical work includes, but is not limited to, constructing and maintaining forest trails, cutting fallen trees into firewood, picking up and burning fallen limbs, fighting forest fires, and planting new trees.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-657, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-657, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-657, filed 11/9/73, effective 1/1/74.]

WAC 296-17-658 Classification 4909.

4909-00 Inmates of juvenile forest camps

Applies to inmates of juvenile forest camps who are employed by a city, town, county, or state agency. Their employment, which takes place away from the forest camp, provides basic work training and experience to qualify inmates for better work in the correctional institute or in the public community. Typical work includes, but is not limited to, constructing and maintaining forest trails, cutting fallen trees into firewood, picking up and burning fallen limbs, fighting forest fires, and planting new trees.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-658, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-658, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-658, filed 11/9/73, effective 1/1/74.]

WAC 296-17-65801 Classification 4910.

4910-00 Property management services

Applies to establishments engaged in managing their own rental property or properties owned by others. Properties include, but are not limited to, privately owned or commercial buildings, malls, apartment or condominium complexes, mobile home parks, halls, and conference rooms. Typical operations contemplated by this classification include, but are not limited to, management or clerical duties, advertising, showing vacant units to prospective tenants, collecting rent, providing security, and normal maintenance and repair when conducted by employees of employers subject to this classification. Normal maintenance and repair contemplated by this classification includes replacing parts on existing fixtures or equipment, repairing existing structures, normal cleaning or janitorial activities, maintaining existing landscaping, and shoveling snow from driveways or walkways. Construction, alteration, or improvements to the properties are *not* considered normal maintenance and are *not* contemplated by this classification. Major repair work is usually performed by contractors who are not employees of the property management business. *Apartment or condominium complexes and mobile home parks* may have common areas such as, but not limited to, laundry facilities, community rooms, tennis courts, exercise rooms, swimming pools, saunas or hot tubs, and playgrounds or small park areas. Common areas are maintained by employees of the complex or park owner or by the property management service. Residents of mobile home parks are usually responsible for maintaining their own mobile homes and their immediate space.

This classification includes homeowners' associations where residents in a housing development pay annual fees which cover the maintenance of lawns, paths, sprinkler systems, and common areas such as pools, activity centers, and tennis courts by employees of the homeowners' association.

This classification excludes employees engaged exclusively in clerical duties who are to be reported separately in classification 4904; employees engaged exclusively in sales duties such as collecting rents, showing and advertising the facility, conducting auctions, or in a combination of clerical and sales duties who are to be reported separately in classification 6303; establishments providing janitorial services exclusively which are to be reported separately in classification 6602; contractors engaged in mobile home set up or removal who are to be reported separately in classification 0517; any new construction or alteration work performed by employees of employers subject to this classification which is to be reported separately in the applicable construction classification; establishments that contract to perform maintenance or repair, but have no responsibilities in the management of the property, which are to be reported separately in the applicable classification; and lodging or food serving operations which are to be reported separately in the applicable classification.

4910-01 Chimney cleaning - residential buildings

Applies to establishments engaged in providing chimney cleaning services to residential customers. Workers who perform chimney cleaning services are commonly referred to as "chimney sweeps" and usually work alone or as a two-person team. When working as a team, one "sweep" works inside the house and the other works on the roof. The methods of cleaning vary. To protect the floors and furniture, drop cloths are placed in front of the fireplace and taped over the opening. The vertical drop cloth may have a "boot" or slit in it which allows rods to be pushed through. Various brushes, usually wire, are attached to extension rods and worked up and down the flue to dislodge the soot and creosote. Creosote deposits may be removed also with a chimney bar, which is a pipe-like instrument with a chisel end, or by using metal scrapers. Where the chimney top is protected from the rain by a hood or cap, it may not be possible to insert the brushes into the opening; a chain or weight may be lowered and swung back and forth inside the chimney. Some sweeps have custom-made vacuum trucks with large collection chambers to collect the soot. In addition to cleaning the chimney flue and fireplace, some sweeps clean oil, gas and coal burning furnaces, repair chimney and flue linings, remove animals from chimneys, and offer other related services. Repairs included in this classification are limited to such activities as caulking around the flashing and sealing brickwork.

This classification excludes establishments engaged in industrial or commercial chimney or smokestack cleaning services which are to be reported separately in classification 0508; contractors engaged in chimney reconstruction or new construction made of masonry or brick who are to be reported separately in classification 0302; contractors engaged in the installation of sheet metal stove pipe who are to be reported separately in classification 0307; and the installation of a new lining in the chimney which is to be reported separately in the applicable classification.

4910-02 Mini-storage warehouse

Applies to establishments engaged in operating mini-storage facilities. Mini-storage facilities are usually fenced and entry is through a locking gate through which owners and renters of units are provided access. The units range from lockers to rooms of various sizes; once the unit is rented, the tenant or owner has sole access to it. Typical operations include, but are not limited to, management or clerical duties, renting or selling storage units to others, providing security, and normal maintenance and repair when performed by employees of employers subject to this classification. Normal maintenance and repair contemplated by this classification includes replacing parts on existing fixtures or equipment, repairing existing structures, normal cleaning of public areas, controlling rodents and other pests, maintaining existing landscaping, and shoveling snow from driveways or walkways. Construction, alteration, or improvements to the properties are *not* considered normal maintenance and are *not* contemplated by this classification. Major repair work is usually performed by contractors who are not employees of the storage facilities.

This classification excludes employees engaged exclusively in clerical duties who are to be reported separately in classification 4904; employees engaged exclusively in sales duties or in a combination of clerical and sales duties who are to be reported separately in classification 6303; and new construction or alteration work which is to be reported separately in the applicable construction classification.

4910-03 Temporary signs - placement or removal

Applies to establishments engaged in placing or removing temporary yard signs such as, but not limited to, real estate signs for real estate offices or property management firms and campaign signs. The smaller signs are usually mounted on a metal rod which is pounded into the ground to a depth of about 18". A post hole digger may be used to dig holes for larger signs that require a more sturdy post.

This classification excludes all other types of sign installation, painting or repair which are to be reported separately in the applicable classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-65801, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-65801, filed 12/1/89, effective 1/1/90.]

WAC 296-17-659 Classification 5001.

5001-03 Logging, N.O.C.

Applies to establishments engaged in various logging operations not covered by another classification (N.O.C). Typical work contemplated by this classification includes, but is not limited to, high lead or tower logging, ground logging, and team logging with horses. For purposes of this rule, logging is the complete operation of felling, skidding, yarding, delimbing, and bucking of trees into logs or block wood and loading them onto trucks or rail cars.

Definitions:

High Lead or Tower Logging - usually occurs in steep terrain where a metal tower is set-up on a hilltop with a system of heavy cables running down the hillside and fastened to a stump or tree and has other smaller cables with chokers

hanging from it. A choker is wrapped around each fallen tree and pulled back to the landing site.

Helicopter logging - includes ground crews that work with the use of helicopters to hoist fallen trees or bucked log lengths to the landing sight.

Chokers - chains or cables which are attached to the fallen trees for skidding to the landing site.

Ground logging - usually occurs on relatively flat land; fallen trees are moved to a landing by a skidder, cat or shovel.

Bucking - stripping or delimbing tree of branches and cutting the tree to desired log lengths.

Skidding - process of dragging the fallen logs to the landing site.

Landing - place where the fallen logs are brought for sorting and loading onto log trucks.

Yarding - usually performed at the landing site with use of a log loader to sort the logs by species, length and diameter, prior to loading onto log trucks.

This classification excludes flight crews of helicopters used in helicopter logging which are to be reported separately in classification 6803; log hauling which is to be reported separately in classification 5003; logging road construction which is to be reported separately in classification 6902; and mechanical or mechanized logging operations which are to be reported separately in classification 5005 provided the classification has been approved by the classification services section.

5001-04 Shake, shingle bolt, and post cutting

Applies to establishments engaged in the cutting of shakes, shingle bolts (blocks), and fence posts in the woods. For the purposes of this rule, this classification includes all operations performed in the woods such as, but not limited to, the felling of trees, stripping or delimbing of branches, and all further cutting or splitting of trees/logs to produce shakes, shingle bolts or fence posts. This classification includes all transporting of shakes, shingle bolts or fence posts from the cutting site when conducted by employees of employers subject to this classification.

5001-05 Firewood cutting

Applies to establishments engaged in the cutting of firewood in the woods. For the purposes of this rule, this classification includes all operations performed in the woods such as, but not limited to, the felling of trees, stripping or delimbing of branches, and all further cutting or splitting of trees/logs to produce firewood. This classification includes all transporting of log lengths, rounds or split wood from the cutting site when conducted by employees of employers subject to this classification.

5001-06 Sawmill operations conducted in the woods in connection with logging operations

Applies to establishments operating a temporary or portable sawmill operation in the woods. This type of work is usually performed on privately owned land. A portable sawmill and saw tables, similar to those at a permanent sawmill location, are transported directly to the logging site. Log lengths are fed through a circular saw that is capable of producing various sized rough cut timber, blocks, boards and planks. This classification includes all transporting of rough cut timber, blocks, boards and planks from the cutting and/or sawing site when conducted by employees of employers subject to this classification.

This classification excludes sawmill operations which are not conducted in the woods in connection with a logging operation which is to be reported separately in the applicable sawmill classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-659, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-659, filed 5/31/96, effective 7/1/96; 86-12-041 (Order 86-18), § 296-17-659, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-659, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-659, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-659, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-659, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-659, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-659, filed 11/30/77, effective 1/1/78; Order 75-38, § 296-17-659, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-659, filed 11/9/73, effective 1/1/74.]

WAC 296-17-660 Classification 5002.

5002-00 Booming and rafting logs

Applies to establishments engaged in booming and rafting logs on water. Booming involves making a barrier in the water usually with existing floating logs tied together with rope or chain to enclose other free floating logs. This type of barrier is referred to as a bundle. Rafting involves the use of a boom boat or tugboat to push the bundles together and tow the bundles to a particular destination. The destination may be a port where logs are loaded directly onto vessels, or to a sawmill, lumber mill or log sorting yard. This classification includes the loading of logs into or out of the water when performed by employees of the booming and rafting business.

Special note: Care should be exercised prior to assignment of this classification as the workers may be subject to federal laws covered by the Jones Act or by the U.S. Longshore and Harbor Workers Act.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-660, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-660, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-660, filed 11/9/73, effective 1/1/74.]

WAC 296-17-66001 Classification 5003.

5003-01 Log hauling by contractor

Applies to contractors engaged in hauling logs for others from a logging side to a mill or storage yard. The loading and unloading of the truck is included in this classification when performed by the truck driver.

This classification excludes the hauling of logs from a log storage yard to a shipping destination which is to be reported separately in classification 1102 and log hauling by employees of a logging company which is to be reported separately in classification 5003-02.

5003-02 Log truck drivers, N.O.C.

Applies to employees of a logging company who are hauling the company's own logs from the logging side to a mill or storage yard.

This classification excludes the hauling of logs from a log storage yard to a shipping destination which is to be reported separately in classification 1102 and log hauling by

a log hauling contractor which is to be reported separately in classification 5003-01.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-66001, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-66001, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-66001, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-66001, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-66001, filed 11/27/78, effective 1/1/79.]

WAC 296-17-66002 Classification 5004.

This classification applies to establishments engaged in forestry and timberland management services. It applies to employees of contractors or of land owners. This classification includes all field crew supervisors and foremen assigned to oversee work covered by this classification including internal quality control audits regardless of whether their assigned duties include manual labor. Classification 5004, and related classification 1007 and 5006, cover various activities associated with the management of forests, range or timberland. These classifications have also been assigned to establishments engaged in erosion control projects and fish and wildlife habitat enhancement projects. *The industry covered by this series of classifications has special reporting requirements.* Reforestation establishments assigned to classifications 1007, 5004, and 5006 report work on a contract basis. These contracts may last a quarter or several quarters. Refer to WAC 296-17-35203(4) for specific reporting requirements. Classification 1007 applies to technical services such as identifying volume and species of trees in a section of timberland or a forest, auditing parcels planted by a tree planting contractor for quality control purposes, conducting environmental studies, testing growing techniques and similar activities. Classification 5004 covers various forms of work conducted in the forest or timberland generally associated with the overall care of these lands. Classification 5004 is used to report manual crew labor. Classification 5006 covers machinery operations on these lands such as clearing, slashing, hydro seeding, chemical spraying and forest fire fighting. It will be common in the case of a forest fire to have employees reporting in both classification 5004 and 5006 for forest fire fighting since some employees will operate bulldozers, loaders and tanker trucks while others will use chain saws and shovels. In some cases establishments subject to classification 5004 will use multiple subclassification codes on a single contract and premium report.

This classification excludes forestry related machine work used in connection with trail construction, slash burning, fire watch/patrol and forest fire fighting, slashing, pile burning, roadside brushing, roadway dust/mud control which is to be reported separately in classification 5006 "forestry related machine work"; logging operations which are to be reported separately in classification 5001; logging road construction which is to be reported separately in classification 6902; and technical survey work which is to be reported separately in classification 1007.

5004-04 Animal damage control

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry and timberland services. Use of this classification is limited to services related to animal damage control such as placing salt blocks and hay for wildlife. This is done to provide food and nutritional supplements to forest wildlife as an alternative and preventative measure to reduce destruction to newly planted seedlings (trees) caused by feeding animals.

5004-05 Beaver trapping

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to services related to trapping mountain beaver. This is done to prevent damage to trees caused by mountain beaver when feeding and building nests for rearing their young.

5004-06 Chemical spraying

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to services related to chemical spraying. This is done to kill competing vegetation growing around young seedlings (chemical conifer release) and keep the brush on roadsides down.

This classification excludes manual conifer release which is to be reported separately in classification 5004-14.

5004-07 Cone picking

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to services related to cone picking which is done to obtain seed for new trees. Cone picking may occur on the ground or in the trees. All forms of cone picking are included within the scope of this classification.

5004-08 Fertilizing services

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to services related to applying liquid and dry fertilizers on trees and vegetation within forested or timbered lands. This is done to stimulate and encourage the growth of desired trees and vegetation.

5004-09 Hydro seeding services

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to hydro seeding abandoned roads and roadsides which is done primarily for erosion control and habitat development. This classification also includes manual labor associated with erosion control or habitat development projects.

5004-11 Pruning services

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to pruning lower tree branches. This is being done on an experimental basis on certain plots to aid in the production of clear wood (knot free) for future plywood and furniture demands.

5004-12 Tree netting services

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to placing netting or paper sleeves over new tree growth to discourage animals from eating the growth. This is also referred to as bud capping.

5004-13 Tree planting services

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to planting trees in a forest (reforestation) or in privately owned timbered land. This is done to re-establish a tree population after logging or a fire.

5004-14 Tree thinning services including forest trail construction and brush clearing, N.O.C.

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in the removal of unmarketable trees with a chain saw, machete, or pruning loppers, brush clearing, manual tree slashing and constructing walking paths or trails. This is done to reduce competition of the remaining trees for water and nutrients, eliminate fire hazard and provide trails for management and recreational use. This classification includes manual conifer release.

This classification excludes chemical conifer release which is to be reported separately in classification 5004-06.

5004-18 Miscellaneous forestry services, N.O.C.

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry and timberland services not covered by another classification (N.O.C.). This classification is for miscellaneous manual labor on forest or timberland such as, but not limited to, manual forest fire fighting.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-66002, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-66002, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1), 51.16.035, 51.12.070 and 51.16.060. 92-18-065, § 296-17-66002, filed 8/31/92, effective 10/1/92. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-66002, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-66002, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-66002, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-66002, filed 11/30/81, effective 1/1/82.]

WAC 296-17-66003 Classification 5005.

5005-00 Logging and/or tree thinning - mechanized operations

(to be assigned only by classification services staff)

Applies to establishments engaged in mechanized logging or tree thinning operations. For purposes of this classification, mechanized logging is defined as the entire process of felling, removal (skidding), yarding, processing, delimbing, bucking and loading of trees/logs by machine. This classification can only be used by a logging contractor if the entire side is being logged using methods and equipment described in this rule. If any portion of the side is being logged by conventional methods the entire operation must be reported in classification 5001 - Logging, N.O.C. *For example*, an employer that subcontracts to fell trees with a feller/buncher or processor but is not involved in the removal (skidding) of the trees, the processing (delimbing and bucking) of the trees and the loading of trees is excluded from classification 5005 and is to be reported in classification 5001 - Logging, N.O.C. Any employer whose operation includes any manual felling, removal, processing, or loading of trees is excluded from classification 5005 and is to be reported in classification 5001 - Logging, N.O.C. Work contemplated by this classification includes the falling of trees with a machine such as a feller buncher or processor; skidding logs to the landing with use of a grapple skidder or forwarder; delimbing logs with a mechanized delimber such as a stroke delimber, processor, CTR or harvester; and loading logs onto log trucks with a mechanical loader or shovel. Equipment used by employers subject to this classification will consist of the following:

Feller/buncher - used to fell trees and place felled trees into stacks (bunches) for removal to the log landing for further processing. The operator of this machine does not leave the cab of the machine in the performance of duties in the logging operation.

Processor - used to fell trees, delimb them, buck tree to desired log length and stack the bunches for removal to the landing where they will be segregated by general grade and loaded onto log trucks. A processor is sometimes used at the landing to delimb trees and buck them to log length, especially when the trees are felled by a feller/buncher. The operator of this machine does not leave the cab of the machine in the performance of duties in the logging operation.

Grapple skidder - is used to remove (ground skid) stacks (bunches) of felled trees from the woods to the landing. The industry refers to both the skidder and the bulldozers as a tractor. The two are distinguished from one another in that the skidder is a tire-driven tractor and the bulldozer is a track-driven tractor. A bulldozer equipped with a grapple is an acceptable piece of equipment to be used in the removal of trees. The operator of either the grapple skidder or bulldozer equipped with grapple does not leave the cab of the machine in the performance of duties in the logging operation.

Forwarder - is used to remove logs as cut by a processor from the woods to an awaiting log truck or to be stacked in piles for a future pick up by a log truck. This is a small specialized tractor equipped with a self-loader and a log bunk. The operator of this machine does not leave the machine in the performance of duties in the logging operation.

Harvester - is used at the landing of the logging side to delimb trees and buck trees to desired log length. This machine can also be used to load logs onto log trucks. The operator of this machine does not leave the cab of the machine in the performance of duties in the logging operation.

Loader - is used at the landing to load logs onto log trucks. The operator of this machine does not leave the cab of the machine in the performance of duties in the logging operation.

This classification excludes log hauling which is to be reported separately in classification 5003 and logging road construction which is to be reported separately in classification 6902.

Special notes: If any portion of the logging contract is performed manually or by hand, the establishment does not qualify for this classification. If any portion of the logging contract is subcontracted out to another business and is performed manually or by hand, then all businesses involved in the logging contract will not qualify for this classification and are to be reported separately in classification 5001.

All equipment used by employers subject to this classification must meet WISHA guidelines for Roll Over Protection Standards (ROPS) and Falling Object Protection Standards (FOPS).

See classification 5206 (WAC 296-17-675) for permanent shop/yard operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-66003, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-051, § 296-17-66003, filed 5/27/94, effective 7/1/94.]

WAC 296-17-66004 Classification 5006.

This classification applies to establishments engaged in forestry and timberland management services. It applies to employees of contractors and of landowners. Classification 5006 and related classifications 1007 and 5004 cover various activities associated with the management of forests, range and timberland. These classifications have also been assigned to establishments engaged in erosion control projects and fish and wildlife habitat enhancement projects. *The industry covered by this series of classifications has special reporting requirements.* Establishments assigned to classifications 1007, 5004 and 5006 report work on a contract basis. These contracts may span a quarter or several quarters. Refer to WAC 296-17-35203(4) for specific reporting requirements. Classification 1007 applies to technical services such as identifying volume and species of trees in a section of timberland or a forest, auditing parcels planted by a tree planting contractor for quality control purposes, conducting environmental studies, testing growing techniques and similar activities. Classification 5004 covers various forms of work conducted in the forest or timberland generally associated with the overall care of these lands. Classification 5004 is used to report manual crew labor. Classification 5006 covers machinery operations on these lands such as, but not limited to, clearing, slashing, hydro seeding, chemical spraying and forest fire fighting. It will be common in the case of a forest fire to have employees reporting in both classification 5004 and 5006 for forest fire fighting since some employees will operate bulldozers, loaders and tanker trucks while others will use chain saws and shovels. In some cases establishments subject to classification 5006 will use multiple subclassification codes on a single contract and premium report.

5006-00 Forestry machine work - brush clearing and chemical spraying

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in brush clearing using specialized tractors and chemical spraying.

5006-01 Forestry machine work - dust control

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in spraying water on logging roads to reduce dust caused by log hauling trucks, logging equipment and other passenger traffic. Equipment consists of a water tanker truck equipped with a spray apparatus controlled from within the cab of the vehicle.

5006-02 Forestry machine work - forest fire fighting

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in forest fire fighting using equipment such as, but not limited to, water tanker trucks, bulldozers and loaders.

5006-03 Forestry machine work - forest trail construction

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in forest trail construction using equipment such as, but not limited to, bulldozers and loaders.

5006-04 Forestry machine work - scarifying

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in scarifying work using equipment such as, but not limited to, bulldozers and loaders.

5006-05 Forestry machine work - slash burning

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in slash burning leftover vegetation and tree debris using equipment such as, but not limited to, bulldozers, loaders and water tanker trucks.

5006-06 Forestry machine work - slash piling

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in piling leftover vegetation and tree debris (slash) using equipment such as, but not limited to, bulldozers and loaders.

5006-07 Forestry machine work - slope grooming

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry or timberland services. Use of this classification is limited to employees of an employer subject to this classification engaged in removing vegetation and grading (leveling and smoothing) land using equipment such as, but not limited to, bulldozers and loaders.

5006-08 Miscellaneous forestry services, N.O.C.

(to be assigned only by the reforestation underwriter)

Applies to contractors and employees of landowners engaged in forestry and timberland services not covered by another classification (N.O.C.). This classification is for miscellaneous machine work on forest or timberland such as, but not limited to, hydro seeding and erosion control.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-66004, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-66004, filed 5/31/96, effective 7/1/96.]

WAC 296-17-661 Classification 5101.

5101-31 Pipe or tube: Manufacturing - iron or steel; Metal ejection molding

Applies to establishments engaged in the manufacture of pipe or tubes from iron or steel. This classification contemplates both seamed and seamless pipe and tubing involving either a hot or cold drawing process or roll forming and machine welding processes, as well as flexible steel tubing used for products such as, but not limited to, automotive exhaust systems, water lines, and oil lines. In the drawing process, metals are melted to a molten state in furnaces, then rolled or spun in rolling machines and a pipe or tube is drawn. Tubing may be annealed (fed through a furnace then slowly cooled to strengthen and reduce brittleness). In the roll forming method flat sheets of iron or steel are bent in brake presses or other rolling or bending machinery, then the edges are welded together to form the pipe or tube. This classification also includes metal ejection molding in which raw scrap and pig iron is melted, forced into casting machines, and cast in high speed revolving flasks of various shapes depending on the product being produced. When finished, products are ejected from the molds. They may be further processed by annealing, tumbling, deburring and grinding, and cleaned in acid baths.

This classification excludes pipe dealers which are to be reported separately in classification 2009; the installation of any product manufactured in this classification which is to be reported separately in the classification applicable to the work being performed; and foundry operations which are to be reported separately in classification 5103.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-661, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-661, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-661, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-661, filed 11/9/73, effective 1/1/74.]

WAC 296-17-663 Classification 5103.

5103-00 Foundries, N.O.C.

Applies to establishments engaged in operating foundries that manufacture castings from ferrous and/or nonferrous metals. To form castings, metal is melted in furnaces, then poured or ladled into molds. After they are cooled and solidified, castings are removed from molds with shake out machines, or tools such as torches, electric arcs, abrasive saws, or sledgehammers. Depending on the product and the carbon or alloy content of the metal, further repair or refining such as welding, annealing, tempering, flame hardening or other heat treatments may be needed. Cleaning and finishing processes include, but are not limited to, machining, chipping, grinding, shot or sandblasting, tumbling, and acid pickling to remove surface defects, inspection (sometimes by radiation or chemical analysis) and painting or powder coating. Foundries may make their own patterns and mold, and/or perform their own finishing processes, or they may contract these activities out to pattern-making shops or to machine shops.

This classification excludes establishments that perform only pattern making functions which are to be reported separately in classification 2906 and establishments engaged exclusively in machine shop services which are to be reported separately in classification 3402.

Special note: Foundries that make their own patterns and/or perform their own machine finishing may report those operations separately in the classifications applicable to the work being performed provided all of the conditions of the general reporting rule covering the operation of a secondary business activity have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-663, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-663, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-663, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-663, filed 11/9/73, effective 1/1/74.]

WAC 296-17-666 Classification 5106.

5106-08 Blacksmithing; vehicle spring or auto bumper: Manufacturing

Applies to establishments engaged in blacksmithing, or in manufacturing leaf springs or bumpers for vehicles. Blacksmithing is the hammering of metal heated in a forge to shape either with hand tools or with a steam or air hammer. The force of the blow is controlled by the operator and the desired size or shape is produced between flat dies like a hammer and anvil. Incidental welding, grinding, tempering and sharpening may also be involved. Spring manufacturing contemplated by this classification are known as leaf springs and are used in vehicles. To make leaf springs or bumpers, steel is rolled, sheared or stamped to size, bent to shape and then tempered to produce the required degree of elasticity.

This classification excludes the manufacture of wire springs, such as for wire mattresses or bed springs, which is to be reported separately in classification 3402.

5106-09 Tool forging: Hot forming or stamping

Applies to establishments engaged in the manufacture of products such as, but not limited to, forging tools, hand tools such as wrenches or levels, and small machine tools such as twist drills, chisel bits, dies, or jigs, by hot forming or stamping. Tool forging by hot forming or stamping involves heating metal in a furnace or hearth, then beating or hammering the heated metal into desired shapes with large drop hammers or rams. After forging is completed, goods are finished with typical machine shop equipment. Finishing processes may involve cutting, turning, shaping, heat-treating, drilling, milling, grinding, tapping and finishing by assembling, polishing, buffing, painting or plating.

This classification excludes establishments engaged in the manufacture of tools by machining operations which are to be reported separately in the applicable machining classification.

5106-10 Forging works; drop or machine

Applies to establishments engaged in the manufacture of products such as, but not limited to, engine parts, hooks, and chains by drop or machine forging. Forgings are produced by drop or trip hammers or forming presses. Drop or machine forging differs from blacksmithing or hammer forging in that closed impression dies are used. The forgings are produced by impact or pressure which forces the metal to conform to the shape or the die, one half of which is carried by the ram while the other half if held stationary on the anvil block. Trimming is done by the trimmer dies in a separate press which removes the surplus metal that squeezes out between the two sections of the forging die.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-666, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-666, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-666, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-666, filed 11/9/73, effective 1/1/74.]

WAC 296-17-668 Classification 5108.

5108-55 Cable or wire rope: Drawing and manufacturing

Applies to establishments engaged in wire drawing including wire rope or cable manufacturing from iron or steel. Establishments may be engaged in the further manufacturing of products made from wire such as, but not limited to, baling wire, barbed wire, spikes, galvanized wire and nails. The process involves the forming of metal on a swage block into a shape that will eventually be drawn through a series of dies to reduce it in size. Some wire may be heat-treated to allow for continual drawing. Secondary and final drawing machines with progressively smaller dies are used to reduce the wire to the desired fineness. Incidental galvanizing is considered normal to iron or steel wire when performed as a subsequent treatment of drawn wire. The finished wire is automatically wound onto reels for shipment or may be further processed into wire rope or cables. Stranding and braiding is done on automatic machines and the wire or cable stored on shipping reels.

5108-56 Cable or wire rope: Manufacturing with no drawing

Applies to establishments engaged exclusively in stranding iron or steel wire rope or cable. Reeled iron or steel coils of drawn wire and core material are received from others. The wires are mechanically wound together to form a multi-wire strand which are then wound helically around a metal or fiber core to form wire rope. The finished rope or cable is pulled through a compression die, measured by power driven drums and stored on shipping reels.

5108-57 Cable or wire insulation or covering: Manufacturing

Applies to establishments engaged in manufacturing insulated or covered electrical cable. These establishments receive the drawn wire and the insulation material from outside sources. Commonly used insulation materials are enamel or lacquer, rubber, plastic, paper, cambric and cotton thread. Enamel or nylon insulation is applied by running the wire through heated tanks of either mix. The wire is then dried in ovens and the cycle is repeated several times. This classification applies also to the placing of various protective coverings on insulated wire. These protective coverings are generally cotton braid, metallic armor or lead sheathing. This classification includes incidental wire stranding when performed by employees of employers subject to this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-668, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-668, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-668, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-668, filed 11/9/73, effective 1/1/74.]

WAC 296-17-669 Classification 5109.

5109-46 Heavy machinery & equipment including locomotive engines: Manufacture or repair; Press roller recoating/resurfacing

Applies to establishments engaged in the manufacture, assembly, and repair of heavy equipment. Machinery and equipment subject to this classification are usually made of steel and steel/iron castings and include, but are not limited to, bulldozers, dump trucks, graders, skidders, forklifts and logging towers. The component parts may weigh several hundred to thousands of pounds. Overhead cranes are commonly used in the assembly process. Machinery used in the manufacturing, assembly, and repair includes, but is not limited to, boring mills, lathes, iron workers, welders/cutters, cut saws, and drills. Some establishments use CNC (computer numeric controlled) machinery; however, most establishments in this classification primarily use manual machinery and conventional welders/cutters. Other common operations covered by this classification include paint, welding, and electronic assembly areas. This classification also includes establishments that repair, recoat or resurface press rollers such as, but not limited to, the type rollers used by printing and paper making mills. Operations include repairing the interior shafts of the rollers, then grinding fiberglass or ceramic finishes until they are smooth. For rubber-coated surfaces, they remove the old rubber from the metal surface, sandblast the roller, then recoat it with new rubber. Most establishments that recoat the surface with rubber will mix and extrude their own rubber which is included in this classification when performed by employees of employers subject to this classification.

Special note: Field work as well as shop work is contemplated as an integral part of this classification. A vehicle may be equipped with welding equipment and other tools used for field repair. The broken part may be replaced in the field or returned to the shop, repaired if feasible, or a new part is ordered. The part is then loaded onto the field vehicle taken to the job site and reconnected. Some establishments perform this type of field work almost exclusively.

5109-47 Heavy arms: Manufacturing or repair

Applies to establishments engaged in the manufacture or repair of heavy arms including large munitions. This classification applies to all types of guns 20 MM and larger including, but not limited to, aircraft guns, tank guns, naval guns, torpedoes and aircraft gun turrets.

Special note: Field work as well as shop work is contemplated as an integral part of this classification. A vehicle may be equipped with welding equipment and other tools used for field repair. The broken part may be replaced in the

field or returned to the shop, repaired if feasible, or a new part is ordered. The part is then loaded onto the field vehicle taken to the job site and reconnected. Some establishments perform this type of field work almost exclusively.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-669, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-669, filed 5/31/93, effective 7/1/93; 91-12-014, § 296-17-669, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-669, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-669, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-669, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-669, filed 11/13/80, effective 1/1/81; Order 75-38, § 296-17-669, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-669, filed 11/9/73, effective 1/1/74.]

WAC 296-17-670 Classification 5201.

5201-75 Electric power or transmission equipment: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of electrical power or transmission equipment, most of which is industrial and is used by public utilities for the transmission of electrical power. Equipment manufactured includes, but is not limited to, transformers, switchboards, circuit breakers, switches or switchboard apparatus, power switching devices or systems, and power invertors. Transformers step down voltage from very high to a lower voltage. Switching equipment is normally used to switch the electricity from an incoming line to outgoing lines. Transformers are usually made from sheet metal which is approximately 14 gauge. Machinery used to manufacture transformers is similar to that used in a sheet metal shop. Winding machines are also used to wind wire to form a coil which is placed inside the transformer. This is a shop or plant only classification.

This classification excludes the installation, service or repair away from shop of products manufactured which are to be reported separately in the applicable classification; the installation, removal, and repair of electric power or transmission equipment or machinery by a contractor which is to be reported separately in the classification applicable to the work being performed.

Special note: Switchboards, current breakers and switches subject to this classification are distinguishable from switchboards, current breakers and switches covered in classification 3602. Classification 3602 switches are those found on personal computers, household light switches, and small electrical appliances compared to switches manufactured in classification 5201 which are large metal bars used in power plants and substations. Circuit breakers covered in classification 3602 are of the size found in household breaker panels compared to circuit breakers covered in classification 5201 which appear more like large round cylinders with flat metal bars extruding from the cylinders. Switchboards covered in classification 3602 are computerized systems such as telephone systems compared to industrial switchboards such as those used in rail systems for switching trains on tracks.

5201-76 Electric toasters, frying pans, wire harnesses, vacuum cleaners, electrical appliances, N.O.C: Manufacturing or assembly

Applies to establishments engaged in the manufacture or assembly of electric toasters, frying pans, wire harnesses, vacuum cleaners (including central vacuum systems), table top or counter top electrical appliances which are not covered by another classification (N.O.C.) including, but not limited to, electric shavers, steam and dry irons, waffle irons, can openers, mixers and blenders. *Wire harnesses* are the configuration of wires making up the electrical circuit inside an appliance or vehicle that does not include the cord set which will connect the appliance to the power source. The manufacturing process contemplated by this classification is the assembly of component parts and casings, purchased from other manufacturers, with small hand tools such as, but not limited to, drills, screwdrivers, rivet guns, and soldering or brazing tools. This is a shop or plant only classification; all activities away from the shop or plant are to be reported separately.

This classification excludes establishments engaged in the repair of household appliances for others which are to be reported separately in classification 0607; establishments engaged in the manufacture of larger household appliances such as electric ranges, washing machines and refrigerators which are to be reported separately in classification 3404; establishments engaged in the assembly of electric cordset radio and ignitions which are to be reported separately in classification 3602; and the service or repair away from shop of products manufactured in this classification which are to be reported separately in the applicable classification.

5201-78 Electric motors, generators, alternators, starters, convertors, solenoids and servomotors: Manufacturing or assembly including repair

Applies to establishments engaged in the manufacture or assembly of electric motors, generators, alternators, starters, convertors, solenoids and servomotors of all sizes and horsepower. *Convertors* convert electricity from one voltage to another; *solenoids* are switches used to control the flow of electrical current; *servomotors* are electrical motors used to help control a mechanical device. This is a shop or plant only classification; all activities away from the shop or plant are to be reported separately.

This classification excludes the installation, service, or repair away from shop of products manufactured in this classification which are to be reported separately in the applicable classification and the installation, removal, and repair of electric power or transmission equipment in machinery by contractor which is to be reported separately in classification 0601.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-670, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-670, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-670, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-670, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-670, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-670, filed 11/9/73, effective 1/1/74.]

WAC 296-17-673 Classification 5204.

5204-58 Railroad car: Manufacturing or repair Railroad car wheel: Manufacturing or repair

Applies to establishments engaged in the manufacture or repair of railroad cars and/or railroad car wheels. This classi-

fication includes the repair or rebuilding of freight cars, repair of railroad rolling stock tank cars or passenger cars. Inspections of railroad cars are usually conducted prior to making the repairs. Types of repair include, but are not limited to, electrical, mechanical (such as for brakes), or welding (such as on handrails and steps).

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-673, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-673, filed 11/27/85, effective 1/1/86; Order 75-38, § 296-17-673, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-673, filed 11/9/73, effective 1/1/74.]

WAC 296-17-675 Classification 5206.

5206-78 Permanent yard or shop operations; logging or log hauling contractor

Applies to permanent yard or shop employees of logging or log hauling contractors. This classification is limited to contractor yards and shops which are maintained exclusively for the storage of materials and maintenance of equipment used in their logging and/or log hauling business. This classification does not contemplate any manufacturing operations. Only employees of a logging or log hauling contractor who are assigned to the shop or yard are to be reported in this classification. This classification is further restricted in that employees reported in classification 5206-78 cannot have any other duties other than those related to the storage of materials and/or the maintenance of equipment during their work shift or work day. Any employee having any other duties during their assigned work shift or day are to be reported separately in the applicable logging or log hauling classification.

Special note: Under no circumstances can this be the only classification assigned to an employer.

5206-79 Permanent yard or shop operations; Construction or erection contractor

Applies to permanent yard or shop employees of construction or erection contractors. This classification is limited to contractor yards and shops which are maintained exclusively for the storage of materials and maintenance of equipment used in their construction business. This classification does not contemplate any manufacturing operations. For example, a contractor engaged in cabinet manufacturing and installation is to report the shop and yard operation in classification 2907 and is not entitled to classification 5206. Only employees of a construction or erection contractor who are assigned to the shop or yard are to be reported in this classification. This classification is further restricted in that employees reported in classification 5206-79 cannot have any duties other than those related to the storage of materials and/or the maintenance of equipment during their work shift or work day. Any employee having any other duties during their assigned work shift or day are to be reported separately in the applicable construction classification.

Special note: Under no circumstances can this be the only classification assigned to an employer.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-675, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-675, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-675, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-675, filed 11/29/82, effective 1/1/83; 80-17-016 (Order 80-23), § 296-17-675, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-675, filed 11/27/78, effective 1/1/79; Order 76-36, § 296-17-675, filed 11/30/76; Order 73-22, § 296-17-675, filed 11/9/73, effective 1/1/74.]

WAC 296-17-676 Classification 5207.

5207-00 Bowling centers

Applies to establishments engaged in operating bowling centers. Duties include, but are not limited to, renting bowling shoes, collecting fees, distributing score sheets, designating and activating lanes, organizing league competitions, repairing and maintaining scoring equipment, automatic pin setting equipment, ball return machinery or automatic ball cleaning units, refinishing pins and cleaning, waxing, polishing, or buffing the lanes. This classification includes food and beverage operations, pro shop and billiard room operations when conducted as part of the bowling center by employees of the bowling center.

This classification excludes contractors who refinish or replace the hardwood flooring of the lanes which are to be reported separately in classification 0513; food services operated by concessionaires independent of the bowling center which are to be reported separately in classification 3905; and amusement parks that include bowling lanes as part of their operation which are to be reported separately in classification 6208.

5207-01 Skating rinks; Skateboard facilities

Applies to establishments engaged in the general operation of roller or ice skating rinks. Duties include, but are not limited to, renting roller or ice skates or rollerblades, collecting fees, assigning lockers, renting the rinks, playing music, organizing groups or competitions, performing as rink guards, repairing and maintaining sound, communication or lighting equipment, cleaning, polishing, or dusting roller skating rink floors, and maintaining the ice on the ice rinks. This classification includes food and beverage services and skate shop operations when conducted as part of the rinks by employees of the rinks. Skate shops may sell skates, clothing and related accessories, and perform minor adjustments on skates with hand tools, sharpeners, grinders, or wheel lathes. This classification also includes the operation of skateboard facilities.

This classification excludes contractors who refinish or replace the hardwood flooring of the rink which are to be reported separately in classification 0513 and food services operated by concessionaires independent of the skating rink which are to be reported separately in classification 3905.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-676, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-676, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-676, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-676, filed 2/28/85, effective 4/1/85; 81-24-042 (Order 81-30), § 296-17-676, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-676, filed 11/9/73, effective 1/1/74.]

WAC 296-17-67601 Classification 5208.

5208-00 Iron or steel works: Fabrication or assembly - structural iron or steel

Applies to establishments engaged in the fabrication or assembly of structural iron or steel. Structural in this classifi-

cation will mean when fabricated for and used in the frame or grid work of a building, tower, bridge, or similar construction. Fabrication means the laying out of the pieces, the marking, cutting, sawing, drilling, punching, bolting, welding, assembling and finishing of the structural steel products. Raw materials include, but are not no limited to, steel I-beams, tube steel, angle steel, and flat steel. Machinery includes overhead cranes, horizontal and vertical band saws, shears, punches, drill press, brake presses, and welding equipment. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes the erection of structural iron or steel in connection with towers, refineries, elevated railways, and buildings which is to be reported separately in the applicable iron or steel construction classification; contractors engaged in building construction who are to be reported separately in the applicable iron or steel construction class; bridge construction, including structural iron or steel erection, which is to be reported separately in the classification applicable to the work being performed; and manufacturing of rebar for construction which is to be reported separately in classification 5209.

5208-01 Brass, bronze, iron - ornamental: Shop fabrication, assembly or manufacture

Applies to establishments engaged in the manufacture, fabrication, or assembly of ornamental items from brass, bronze and/or iron. Products include, but are not limited to, railings, guards, staircases, fire escapes, and art items. Products are often light and do not require cranes or hoists to move them. The processes vary depending on the product being produced. The equipment includes, but is not limited to, iron workers, shears, drill presses, band saws, forklifts, welders, and grinders. The painting of products manufactured is included in this classification when performed by employees of employers subject to this classification. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes installation which is to be reported separately in the classification applicable to the work being performed.

5208-02 Iron works: Fabrication, assembly, or manufacture; nonstructural iron or steel

Applies to establishments engaged in the manufacture, fabrication or assembly of nonstructural iron or steel. Fabrication means the laying out of the pieces, the marking, cutting, sawing, drilling, punching, bolting, welding, assembling and finishing operations including painting. Products include, but are not limited to, cattle crossing grates, window gratings, grill pieces, and storage racks used by warehouses. Equipment includes, but is not limited to, cut saws, welders, drill presses, grinders, band saws, and hoists. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes installation which is to be reported separately in the classification applicable to the work being performed.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-67601, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-67601, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-67601, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-67601, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-67601, filed 2/28/85, effective 4/1/85; 82-24-047 (Order 82-38), § 296-17-67601, filed 11/29/82, effective 1/1/83.]

WAC 296-17-67602 Classification 5209.

5209-00 Boiler or tank construction

Applies to establishments engaged in the construction of boilers or steel tanks. Boilers are tanks used to either store hot water or make steam. Tanks may be used to hold products such as, but not limited to, sand and gravel, water, solid waste or fuels. The product is constructed from steel plate and may use I-beams for structural support. The materials may be purchased in bulk, if the business has the brake presses and rollers to cut and shape the metals to the appropriate dimensions, or as fabricated components. These establishments may also use cutting torches and other welding equipment in the manufacture of their products. They usually have a large shop area in one or more buildings that is equipped with overhead cranes. There is usually a yard to store raw materials, work-in-process, and finished goods. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes installation of boilers or tanks which is to be reported separately in the classification applicable to the work being performed.

5209-01 Metal goods, N.O.C. from 9 gauge or heavier metals

Applies to establishments engaged in the manufacture of goods using ferrous and nonferrous metal of 9 gauge or heavier. 9 gauge metals are approximately 1/8" thick. Items manufactured include, but are not limited to, crab pots, gaff hooks, firewood boxes, rims for basketball hoops, and rebar. Raw material is cut to desired size with saws, shears, brake presses, punches, and flame cutters. Parts may be joined by welding, riveting, screwing, or bolting. The parts may be handled by overhead cranes, hoists, and forklifts. The products may be finished in a variety of ways including, but not limited to, sanding, grinding, cleaning with solvents and applying paint or lacquer. Finish work is included in this classification when performed by employees of employers subject to this classification. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

This classification excludes establishments primarily engaged in structural iron or steel manufacturing which are to be reported separately in classification 5208; establishments primarily engaged in welding and machine shop activities which are to be reported separately in classification 3402; and establishments primarily engaged in manufacturing products from metal lighter than 9 gauge which are to be reported separately in classification 3404.

5209-02 Wood or pellet burning stove: Manufacturing

Applies to establishments engaged in the manufacture of wood or pellet burning stoves. Sheet steel or plate metal is sheared, formed, punched, baked and decreased. Parts are assembled by spot welding, then enameled or painted. Grey iron parts are foundry cast, chipped, and ground. Heating elements, insulation, wiring and control assemblies, glass panels and grey iron parts are assembled into stove shells on the production assembly line. The stoves are then packed for shipment. Materials include, but are not limited to, sheet steel, grey iron or ferrous castings, insulation materials, glass, aluminum and brass tubing control assemblies, chrome trim and hardware, and paints and enamels. Equipment includes, but is not limited to, power presses, shears, brake presses, welding equipment, spray painting equipment, baking oven, pneumatic and electric grinders and chippers, and pneumatic tools. This is a shop or plant only classification; it includes work being performed in an adjacent yard when operated by an employer having operations subject to this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-67602, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-67602, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-67602, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-67602, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-67602, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-67602, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-67602, filed 11/29/82, effective 1/1/83.]

WAC 296-17-677 Classification 5301.

5301-10 Accounting or bookkeeping services

Applies to establishments engaged in providing general accounting or bookkeeping services to others. Types of services contemplated by establishments subject to this classification include, but are not limited to, auditing, tax preparation, medical or dental claims processing and billing, and/or advisory services. This classification includes all employments such as, but not limited to, clerical office, outside sales, and personnel who travel from one office to another.

This classification excludes establishments engaged primarily in management consultant services that are not otherwise classified, which are to be reported separately in classification 5301-12.

Special note: This classification is limited to employers engaged in such services being provided to the general public. This is a services only classification and does not include retailing or store operations, nor is this classification to be assigned to employers setting up separate business operations to manage other commonly owned or operated business undertakings unless coincidentally the other operations are also subject to this classification.

5301-11 Law firms

Applies to establishments engaged in providing legal services to others. Law firms may specialize in one or more areas of law. This classification includes clerical office and outside sales personnel who travel from one office environment to another.

Special note: This is a services only classification and does not include retailing or store operations, nor is this classification to be assigned to employers setting up separate business operations to manage other commonly owned or operated business undertakings unless coincidentally the other operations are also subject to this classification.

5301-12 Management consultant services, N.O.C.

Applies to establishments engaged in providing management consulting services not covered by another classification (N.O.C.). Management consultants typically will observe and analyze organizational structures, work processes or work flows, mail distribution, computer or communication systems, and planning or development of related business needs. After a thorough analysis, consultants usually prepare a written report for the customer which identifies problem areas and/or recommends improvements to processes or equipment. Consultants may remain to oversee the implementation of the recommended improvements. Consultants subject to this classification do not sell any product they have recommended although they may act as an agent for their client in purchasing the product. Consulting projects vary from client to client depending upon the contract. This classification includes clerical office staff, outside sales personnel and other staff who travel from one office to another.

Special note: This classification is limited to employers engaged in such services being provided to the general public. This is a services only classification and does not include retailing or store operations, nor is this classification to be assigned to employers setting up separate business operations to manage other commonly owned or operated business undertakings unless coincidentally the other operations are also subject to this classification.

5301-13 Credit bureaus; collection agencies

Applies to establishments that are licensed to provide collection and/or credit investigation services to others. Services include, but are not limited to, the collection of NSF checks or delinquent debts owed to clients of the collection agency and checking the credit backgrounds of their client's potential customers. If debts are not collected, the service agency may initiate legal proceedings against the debtor. This classification includes clerical office and outside sales personnel, other staff who travel from one office to another, and process servers, although collection agencies subject to this classification generally employ process servers of other businesses to deliver legal documents.

This classification excludes establishments engaged in providing process serving services which may be reported separately in classification 6303 provided all the conditions of the general reporting rules covering standard exception employees have been met.

5301-14 Employment agencies

Applies to establishments that are licensed to provide employment services for others. Clients of employment agencies may be persons seeking employment or companies looking for employees. Employment agencies usually conduct preliminary interviews with candidates for positions prior to referring them to their client companies for interviews. Generally, establishments subject to this classification place people in permanent positions. This classification includes clerical office and outside sales personnel, and staff who travel from one office to another.

This classification excludes employees of a temporary help agency who are assigned to work in the administrative or branch offices of the agency who are to be reported separately in classification 7104 and employees of a temporary help agency who are assigned on a temporary basis to its customers who are to be reported separately in the appropriate temporary help classification.

5301-15 Court reporting services

Applies to establishments engaged in providing court reporting services to others. Court reporters record verbatim testimony presented in court proceedings, depositions, public hearings or meetings. The most frequently used method to record testimony is by stenotype machine, although it may be recorded by voice recording on audio tape, or by manual shorthand. Transcription of the recorded material may be performed by the court reporter or by "note readers" or typists. The majority of court reporters today use computer-aided transcription systems. Court reporters may also offer notary public services for their clients. This classification includes clerical office and staff who travel from one office to another.

5301-16 Service and professional organizations

Applies to establishments engaged in protecting or furthering the interest of their members and/or the general public. Many of these operate as nonprofit organizations. Service and professional organizations may perform one or many of the following activities: Maintain a membership directory; collect membership dues; publish a newsletter; sponsor educational training programs; administer certification tests; provide job placement assistance; award scholarships; offer insurance programs; research and interpret local, state, and federal regulations and apprise members of the results; manage promotional marketing programs; organize fund raising campaigns; perform charitable community services; sponsor athletic leagues and tournaments; host conventions; disburse funds; perform collective bargaining; arbitrate disputes; provide counseling, adoption, and advocacy services; lobby the legislature; compile, review, and disseminate informational data; operate a tourist information center; issue vehicle license registrations, plates, decals, and certificates of title. Also included in this classification are Economic Development Councils, Boards, or Associations. These nonprofit organizations provide economic consulting services and related statistics to government and industry in the promotion of economic stability, and recruit businesses who will create jobs and provide loans from the grant funds they manage. This classification includes clerical office and outside sales personnel who travel from one office environment to another.

This classification excludes labor unions and employee representative associations which are to be reported separately in classification 6503.

5301-18 Telephone answering services

Applies to establishments engaged in providing telephone answering services for others. Customers include, but are not limited to, medical professionals, attorneys, private businesses, and individuals. Most answering services today use computerized communications systems to identify company names when answering calls for various companies, obtain correct information about the company to respond to questions, record and relay accurate messages in a timely manner. Related services often offered by telephone answering service companies include, but are not limited to, voice mail or paging, rental of office space, telemarketing, dispatching, monitoring alarm systems, placing reminder calls, and scheduling appointments for customers. This classification includes clerical office personnel and staff who travel from one office to another.

5301-19 Travel agencies

Applies to establishments engaged in providing travel arrangement services for others. Travel agencies coordinate all types of travel arrangements for their clients through air, cruise, train, or bus lines, hotels, motels, or resorts, car rental agencies, travel insurance companies, and related travel providers. Services vary and could include delivery of tickets and itineraries to clients, booking reservations and selling tickets for tours, excursions, or other entertainment events, or arrangement of special needs for disabled or elderly travelers. This classification includes clerical office and sales staff who travel from one office to another.

5301-21 Word processing or secretarial services

Applies to establishments engaged in providing word processing or secretarial services to others. Services include, but are not limited to, desktop publishing, dictation and transcription services, typing/compiling reports, proposals, resumes, or correspondence, sending faxes, and making copies of documents. A pickup and delivery service may be offered. This classification includes clerical office and outside sales personnel who travel from one office environment to another.

Special note: This classification is limited to employers engaged in such services being provided to the general public. This is a services only classification and does not include retailing or store operations, nor is this classification to be assigned to employers setting up separate business operations to manage other commonly owned or operated business undertakings unless coincidentally the other operations are also subject to this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-677, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-677, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-677, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-677, filed 5/31/88, effective 7/1/88; 86-12-041 (Order 86-18), § 296-17-677, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-677, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-677, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-677, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-677, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-677, filed 11/27/78, effective 1/1/79; Order 75-38, § 296-17-677, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-677, filed 11/9/73, effective 1/1/74.]

WAC 296-17-678 Classification 5305.

5305-06 Clerical office and administrative employees of cities and towns

Applies to clerical office and administrative employees of cities and towns. Clerical duties include, but are not limited to, answering telephones, handling correspondence, computer work, and maintaining financial, personnel and

payroll records. A clerical office is a work area which is physically separated from all other work areas by walls, partitions or other physical barriers and must be free from all operative hazards of the work environment. Administrative duties may be conducted in or out of the city or town facilities, but are conducted in an atmosphere free from the operative hazards of the work environment associated with operations such as, but not limited to, jails, law enforcement and road works. In addition to management activities, this classification also includes field auditors, social workers or similar activities professionals would perform.

See classifications 0803, 1301, 1404, 6901, 6904, 6905 and 6906 for other city or town operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-678, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-678, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-678, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-678, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-678, filed 11/9/73, effective 1/1/74.]

WAC 296-17-679 Classification 5306.

5306-07 Clerical office and administrative employees of counties, public utility districts and taxing districts, N.O.C.

Applies to clerical office and administrative employees of counties, public utility districts and taxing districts, not otherwise classified (N.O.C.). Clerical duties include, but are not limited to, answering telephones, handling correspondence, computer work, and maintaining financial, personnel and payroll records. A clerical office is a work area which is physically separated from all other work areas by walls, partitions or other physical barriers and must be free from all operative hazards of the work environment associated with operations such as, but not limited to, jails, law enforcement and road works. Administrative duties may be conducted in or out of the county, public utility district or taxing district facilities, but are conducted in an atmosphere free from the operative hazards of the work environment. In addition to management activities, this classification also includes field auditors, social workers, alcohol and drug abuse programs, senior health and nutrition programs, medical and dental clinics or similar activities professionals would perform.

See classifications 1301, 1404, 1501, 1507, 4201, 6103, 6104, 6901, 6904, 6905, and 6906 for other county, public utility districts and taxing districts operations.

5306-25 Clerical office and administrative employees of Native American tribal councils

Applies to clerical office and administrative employees of Native American tribal councils. Clerical duties include, but are not limited to, answering telephones, handling correspondence, computer work, and maintaining financial, personnel and payroll records. A clerical office is a work area which is physically separated from all other work areas by walls, partitions or other physical barriers and must be free from all operative hazards of the work environment. Administrative duties may be conducted in or out of the tribal council facilities, but are conducted in an atmosphere free from the operative hazards of the work environment associated with operations such as, but not limited to, jails, law enforcement and road works. In addition to management activities, this classification also includes field auditors, social workers, alcohol and drug abuse programs, senior health and nutrition programs, youth services, counselors, courts, medical and dental clinics or similar activities professionals would perform.

See classifications 1501 and 6905 for other Native American tribal council operations.

Special note: Tribal operations unrelated to the business of governing such as liquor and tobacco stores, casinos, logging, fisheries and bingo parlors are to be reported separately in the classification applicable to the operation.

5306-26 Clerical office and administrative employees of local public housing authorities

Applies to clerical office and administrative employees of local public housing authorities. Clerical duties include, but are not limited to, answering telephones, handling correspondence, computer work, and maintaining financial, personnel and payroll records. A clerical office is a work area which is physically separated from all other work areas by walls, partitions or other physical barriers and must be free from all operative hazards of the work environment. Administrative duties may be conducted in or out of the housing authority facilities, but are conducted in an atmosphere free from the operative hazards of the work environment associated with operations such as, but not limited to, jails, law enforcement and road works. In addition to management activities, this classification also includes field auditors, social workers or similar activities professionals would perform.

This classification excludes all other employees including meter readers who are to be reported separately in classification 1501 and volunteers who are to be reported separately in classifications 6901 or 6906 as appropriate.

5306-27 Clerical office and administrative employees of military base maintenance contractors

Applies to clerical office and administrative employees of military base maintenance contractors. Clerical duties include, but are not limited to, answering telephones, handling correspondence, computer work, and maintaining financial, personnel and payroll records. A clerical office is a work area which is physically separated from all other work areas by walls, partitions or other physical barriers, and must be free from all operative hazards of the work environment. Administrative duties may be conducted in or out of the military base facilities, but are conducted in an atmosphere free from the operative hazards of the work environment associated with operations such as, but not limited to, jails, law enforcement and road works. In addition to management activities, this classification also includes field auditors, social workers or similar activities professionals would perform.

See classification 1501 for other military base maintenance contractors' operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-679, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-679, filed 6/8/90, effective 7/9/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-679, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-679, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-679, filed 11/9/73, effective 1/1/74.]

WAC 296-17-67901 Classification 5307.

5307-00 State government employees - N.O.C.

Applies to state government employees not covered by another classification (N.O.C.) who perform manual labor, or who supervise a work crew performing manual labor such as custodial or maintenance, construction, or the operation of machinery or equipment. This classification includes administrative personnel such as engineers, safety inspectors, and biologists, who have field exposure, and store and stock clerks. For the purposes of this classification field exposure is defined as any exposure other than the normal travel to a work assignment, such as a field auditor or social worker would encounter. This classification includes all departments, agencies, boards, commissions and committees of either the executive, legislative or judicial branches of state government.

See classifications 4902, 4906, 7103, and 7201 for other state government operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-67901, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-67901, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-67901, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-67901, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-67901, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-67901, filed 11/30/79, effective 1/1/80.]

WAC 296-17-680 Classification 6103.

6103-01 Schools: Academic, K-12 - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel and administrative employees such as principals, assistant principals, receptionists, secretaries, counselors, school nurses, payroll and bookkeeping personnel, and teachers or teachers' aides of establishments engaged in operating public or private academic school facilities, K-12 (kindergarten level through grade 12).

This classification excludes all other types of employees in connection with the school facilities such as, but not limited to, cooks, bus drivers, custodians, maintenance personnel and grounds keepers, and teachers or teachers' aides who are exposed to machinery hazards such as a wood shop, metal shop, print shop, auto shop, and driver training instructors who are to be reported separately in classification 6104.

6103-02 Schools: Trade or vocational - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel and administrative employees such as deans, directors, assistant directors, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and professors or instructors of establishments engaged in operating trade or vocational school facilities. These types of schools provide specialized training and instruction to prepare students for occupations in the chosen fields. Often these facilities will coordinate on-the-job training with employers as well as assist students in finding employment.

This classification excludes all other types of employees in connection with the school facilities such as, but not limited to, cooks, drivers, custodians, maintenance personnel and grounds keepers, and professors or instructors who are exposed to machinery hazards such as a wood shop, metal shop, print shop and auto shop who are to be reported separately in classification 6104.

6103-03 Libraries, N.O.C. - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel and administrative employees such as librarians, assistant librarians, receptionists, secretaries, and payroll and bookkeeping personnel of establishments engaged in operating library facilities not covered by another classification (N.O.C.). These types of facilities maintain a wide selection of reading materials such as books, journals, articles, magazines, publications, newspapers, and audio-visual or micrographic materials.

This classification excludes all other types of employees such as, but not limited to, custodians, maintenance personnel and grounds keepers, drivers, and storage room workers who are to be reported separately in classification 6104.

6103-04 Churches - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Bell ringers

Applies to clerical office, sales personnel and administrative employees such as pastors, priests, reverends, clergymen, ushers, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and instructors of establishments engaged in operating church facilities for members of a religious congregation to meet and worship on a daily or weekly basis. Other services provided include, but are not limited to, sermons, rites, counseling, baptisms, weddings, funerals, bible school, and day care during church services and events. When a church is also operating a school facility, the church classifications are to be assigned for both operations. This classification also applies to bell ringers for charitable organizations.

This classification excludes all other types of employees in connection with the church facilities such as, but not limited to, custodians, maintenance personnel and grounds keepers, and drivers who are to be reported separately in classification 6104.

6103-05 Museums, N.O.C. - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel and administrative employees such as directors, assistant directors, buyers, coordinators, tour guides, receptionists, secretaries, and payroll and bookkeeping personnel of establishments engaged in operating museum facilities not covered by another classification (N.O.C.). Museums maintain a wide variety of artifacts, art, statues, sculptures, and other exhibit works.

This classification excludes all other types of employees such as, but not limited to, custodians, maintenance personnel and grounds keepers (including exhibit set-up), drivers, packers, and warehousemen who are to be reported separately in classification 6104.

6103-06 Day nurseries or child day care centers - clerical office, sales personnel, teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel, and administrative employees such as teachers, teachers' aides and nurses of establishments engaged in operating day nurseries or day care centers for infants, toddlers, and children, or in providing baby-sitting services. Employees will instruct children in activities designed to promote social, physical, and intellectual growth in preparation for primary school. Most day care centers provide breakfast and lunch.

This classification excludes all other types of employees such as, but not limited to, custodians, cooks, maintenance personnel and grounds keepers, and drivers who are to be reported separately in classification 6104.

6103-10 Flight instructions - clerical office, sales personnel, classroom teachers, N.O.C. and administrative employees

Applies to clerical office, sales personnel, classroom instructors, and administrative employees of establishments engaged in providing classroom instruction to student pilots in flight procedures and techniques. Flight instructors explain various aircraft components and instruments for controlling aircraft during maneuvers, and, using flight simulators, demonstrate procedures such as, but not limited to, take-offs and landings.

This classification excludes all other types of employees such as, but not limited to, custodians, maintenance personnel and grounds keepers and drivers who are to be reported separately in classification 6104 and in-air flight instructors outside the classroom who are to be reported separately in the classification 6803.

Special note: Reporting rules are outlined in the division of worker hours provision in the general rules.

6103-11 Schools: N.O.C. - clerical office, sales personnel, classroom teachers, N.O.C. and administrative employees

Applies to classroom instructors, clerical office, sales personnel and administrative employees such as directors and assistant directors, coordinators, instructors, receptionists, secretaries, counselors, payroll and bookkeeping personnel of establishments engaged in providing specialized classroom instruction to students in schools which are not covered by another classification (N.O.C.). Schools include, but are not limited to, dance, modeling, music, driving, cooking, first aid, and schools for coaches. Modeling and dance schools emphasize poise, balance, facial gestures, self-confidence, and counseling in wardrobe and make-up. Music schools emphasize the disciplines of playing various instruments. Driving schools concentrate on the rules, principles, and coordination needed to drive safely, using textbooks, audio-visuals, and driving simulators.

This classification excludes all other types of employees in connection with the specialized school facilities such as, but not limited to, custodians, maintenance personnel and grounds keepers, and instructors who perform activities not as part of a classroom environment who are to be reported separately in classification 6104 and driving instructors outside of the classroom who are to be reported separately in classification 6301.

6103-12 Officials for amateur athletic or cultural events, N.O.C. - clerical office, teachers, N.O.C. and administrative employees

Applies to clerical office employees, administrative employees, and event officials of establishments engaged in providing officials such as, but not limited to, umpires or referees for amateur athletic or cultural events sponsored by schools or communities. Events include, but are not limited to, sports, spelling bees, debates, and musical competitions.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-680, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-680, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-680, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-680, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-680, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-680, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-680, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-680, filed 11/9/73, effective 1/1/74.]

WAC 296-17-681 Classification 6104.

6104-01 Schools: Academic, K-12 - all other employments, N.O.C.

Applies to all other employees of public or private academic schools K-12 (kindergarten level through grade 12). All other in this classification is defined as employees such as, but not limited to, cooks, bus drivers, custodians, maintenance personnel and grounds keepers, and teachers or teachers aides who are exposed to machinery hazards such as wood shop, metal shop, print shop, auto shop, and driver instructors.

This classification excludes clerical office, sales personnel and administrative employees such as principals, assistant principals, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and teachers or teachers' aides who have no exposure to machinery hazards who are to be reported separately in classification 6103.

6104-02 Schools: Trade or vocational - all other employments, N.O.C.

Applies to all other employees of trade or vocational schools. All other in this classification is defined as employees such as, but not limited to, cooks, drivers, driving instructors, custodians, maintenance personnel and grounds keepers, and teachers and teachers aides who are exposed to machinery hazards such as, but not limited to, those in wood shop, metal shop, automotive shops, and plumbing or electrical work. Vocational or trade schools provide specialized training and instruction to prepare students for occupations in their chosen field. Often these facilities will coordinate on-the-job training and assist students in finding employment.

This classification excludes clerical office, sales personnel and administrative employees such as deans, directors, assistant directors, receptionists, secretaries, counselors, payroll and bookkeeping personnel and teachers or teachers' aides who have no exposure to machinery hazards who are to be reported separately in classification 6103.

6104-03 Libraries, N.O.C. - all other employments, N.O.C.

Applies to all other employees of library facilities which are not covered by another classification (N.O.C.). All other in this classification is defined as employees such as, but not limited to, custodians, maintenance personnel and grounds keepers, drivers, and storage room workers. Libraries maintain a wide selection of reading materials such as books, journals, articles, magazines, publications, newspapers, and audio-visual or micrographic materials.

This classification excludes clerical office, sales personnel and administrative employees such as librarians, assistant librarians, receptionists, secretaries, and payroll and bookkeeping personnel who are to be reported separately in classification 6103.

6104-04 Churches - all other employments, N.O.C.

Applies to all other employees of churches. All other in this classification is defined as employees such as, but not limited to, custodians, maintenance personnel, grounds keepers, and drivers. Services offered by a church include, but are not limited to, providing a place for members of a religious congregation to meet and worship on a daily or weekly basis, sermons, rites, counseling, baptisms, weddings, funerals, bible school, day care during church services and events.

This classification excludes clerical office, sales personnel and administrative employees such as pastors, priests, reverends, clergymen, ushers, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and instructors who are to be reported separately in classification 6103.

6104-05 Museums, N.O.C - all other employments, N.O.C.

Applies to all other employees of establishments engaged in operating museum facilities not covered by another classification (N.O.C.). All other in this classification is defined as employees such as, but not limited to, custodians, maintenance personnel and grounds keepers (including exhibit set-up), drivers, packagers, and warehousemen. Museums maintain a wide selection of artifacts, art, statues, sculptures, and other exhibit works.

This classification excludes clerical office, sales personnel and administrative employees such as museum directors, assistant museum directors, buyers, coordinators, tour guides, receptionists, secretaries, and payroll and bookkeeping personnel who are to be reported separately in classification 6103.

6104-06 Day nurseries or child day care centers - all other employments, N.O.C.

Applies to all other employees of establishments engaged in operating day nurseries or day care centers for infants, toddlers, and children, which provide activities to promote social, physical, and intellectual growth in preparation for primary school. All other in this classification is defined as employees such as, but not limited to, custodians, cooks, maintenance personnel and grounds keepers, and drivers.

This classification excludes clerical office, sales personnel and administrative employees such as principals, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and teachers or teachers' aides who are to be reported separately in classification 6103.

6104-11 Schools: N.O.C - all other employments, N.O.C.

Applies to all other employees of establishments engaged in providing specialized classroom instruction to students in schools which are not covered by another classification (N.O.C.) such as, but not limited to, dance, modeling, music, cooking, first aid, and schools for coaches. All other in this classification is defined as employees such as, but not limited to, custodians, maintenance personnel and grounds keepers, and instructors or teachers who perform activities not as part of a classroom environment or who are exposed to machinery hazards.

This classification excludes administrative employees such as directors and assistant directors, coordinators, receptionists, secretaries, counselors, payroll and bookkeeping personnel, and classroom instructors, who are to be reported separately in classification 6103 and driving instructors outside of the classroom who are to be reported separately in classification 6301.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-681, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-681, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-681, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-681, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-681, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-681, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-681, filed 11/9/73, effective 1/1/74.]

WAC 296-17-682 Classification 6105.

6105-00 Hospitals: Religious, charitable or nonprofit

Applies to establishments engaged in operating religious, charitable, or nonprofit hospitals. These hospitals are usually corporations who are governed by a board and have an additional uncompensated care program to assess medically necessary situations and seek out any available resources to provide coverage. If no resources are available, the hospital usually provides care anyway because their mission includes addressing need and supplying care. Hospitals provide medical or surgical care and treatment for the sick and the injured. A hospital is an organization with six or more beds providing round-the-clock nursing care and access to physician's care, and operating at least a pharmacy, a diagnostic X-ray and laboratory facility, and a surgical service. Most hospitals offer a variety of medical services. General care or community hospitals offer a wide range of short-term treatments for a variety of medical conditions, whereas specialized institutions (such as children's hospitals, maternity hospitals and psychiatric hospitals) usually provide a more limited range of services to a specific class of patients. This classification contemplates all types of hospital employment including, but not limited to, admissions staff, medical staff, pharmacy staff, dietary staff, and laundry, housekeeping, custodial and grounds keeping staff. This classification also includes clerical office and sales personnel.

6105-01 Hospitals: Private proprietary

Applies to establishments engaged in operating private proprietary hospitals. These are for-profit corporations that have a board and investors. All hospitals are required to provide initial emergency care. A proprietary hospital may recommend that an indigent or uninsured person find follow-up care elsewhere. Hospitals provide medical or surgical care and treatment for the sick and the injured. A hospital is an

organization with six or more beds providing round-the-clock nursing care and access to physician's care, and operating at least a pharmacy, a diagnostic X-ray and laboratory facility, and a surgical service. Most hospitals offer a variety of medical services. General care or community hospitals offer a wide range of short-term treatments for a variety of medical conditions, whereas specialized institution (such as children's hospitals, maternity hospitals and psychiatric hospitals) usually provide a more limited range of services to a specific class of patients. This classification contemplates all types of hospital employment including, but not limited to, admissions staff, medical staff, pharmacy staff, dietary staff, and laundry, housekeeping, custodial and grounds keeping staff. This classification also includes clerical office and sales personnel.

6105-05 Hospitals: N.O.C. - including hospital districts

Applies to establishments engaged in operating hospitals which are not covered by another classification (N.O.C.) including hospital districts. They are governed by a board of community members. A municipal hospital district operates similar to a charitable hospital; they will not turn away anyone in need of care, but must exercise discretion in allowing write-offs for charity cases. They will also make every effort to obtain available resources for a person before recognizing them as indigent. Hospitals provide medical or surgical care and treatment for the sick and the injured. A hospital is an organization with six or more beds providing round-the-clock nursing care and access to physician's care, and operating at least a pharmacy, a diagnostic X-ray and laboratory facility, and a surgical service. Most hospitals offer a variety of medical services. General care or community hospitals offer a wide range of short-term treatments for a variety of medical conditions, whereas specialized institutions (such as children's hospitals, maternity hospitals, and psychiatric hospitals) usually provide a more limited range of services to a specific class of patients. This classification contemplates all types of hospital employment including but not limited to admissions staff, medical staff, pharmacy staff, dietary staff, and laundry, housekeeping, custodial and grounds keeping staff. This classification also includes clerical office and sales personnel.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-682, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-682, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-682, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-682, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-682, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-682, filed 11/27/78, effective 1/1/79; Order 73-22, § 296-17-682, filed 11/9/73, effective 1/1/74.]

WAC 296-17-684 Classification 6107.

6107-01 Veterinary hospitals or clinics

Applies to establishments of state licensed practitioners engaged in the practice of veterinary medicine, dentistry, or surgery. Veterinarians provide routine checkups, vaccinations, administer drugs and medicines, euthanasia and autopsies; some specialize in areas such as animal dermatology or animal behaviors. Usually veterinary services are performed on an outpatient basis, although animals may be kept on the premises for one or more days for observation or treatment. Veterinarians who specialize in the treatment of larger animals such as cows or horses frequently provide their services off premises rather than in their own facilities. This classification includes clerical office and sales personnel.

This classification excludes animal boarding kennels, animal shelters and/or pet grooming parlors which are to be reported separately in classification 7308.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-684, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-684, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-684, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-684, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-684, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-684, filed 11/9/73, effective 1/1/74.]

WAC 296-17-685 Classification 6108.

6108-00 Convalescent or nursing homes, rest homes, and homes for the aged

Applies to establishments engaged in providing various levels of health care, depending on a patient's needs. Convalescent or nursing homes are state-licensed institutions. The extent of professional or medical services provided ranges from complete medical care for postoperative patients and patients requiring extensive nursing care due to illnesses such as terminal cancer, kidney disorders, and heart disease, to only minimal medical or professional care for other patients. Rest homes provide daily living assistance care to the aged or those with some limits on ability for self-care, but where medical care is not yet a major element. Homes for the aged provide care for people who, due to illness, physical infirmity, or advanced age, are unable to care for themselves and who need nursing and/or health-related care, but do not require the degree of care and treatment that a skilled or intermediate care facility is designed to provide. Patients in homes for the aged, because of their mental or physical condition, require some nursing care, including the administering of medications and treatments, or the supervision of self-administered medications in accordance with a physician's orders. Generally these homes will employ therapists, registered nurses, practical nurses, nurses aides and orderlies to provide the necessary medical care to their patients. The homes also may employ cooks, waitresses, maids, maintenance personnel, social workers and recreational directors, but usually do not employ a resident physician, although they may have arrangements with physicians who are on call for emergencies.

This classification excludes boarding houses which are to be reported separately in classification 6509.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-685, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-685, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-685, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-685, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-685, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-685, filed 11/30/81, effective 1/1/82; Order 75-38, § 296-17-685, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-685, filed 11/9/73, effective 1/1/74.]

WAC 296-17-686 Classification 6109.

6109-00 Physicians and surgeons, N.O.C.

Applies to establishments of licensed practitioners not covered by another classification (N.O.C) who are engaged in the practice of general or specialized medicine and surgery. Physicians diagnose and treat a variety of diseases and injuries, order or execute various tests, analyses, and diagnostic images to provide information on a patient's condition, analyze reports and findings of tests and of examination, diagnose conditions, and administer or prescribe treatments and drugs. Physicians may also inoculate and vaccinate patients to immunize them from communicable diseases, or refer patients to a medical specialist or other practitioners for specialized treatment. They may also make house and emergency calls to attend to patients unable to visit the office. Surgeons examine patients to verify necessity of surgery, review reports of patient's general physical condition and medical history, reactions to medications, estimate possible risk to patient, and determine best operational procedure. Surgeons may specialize in a particular type of surgery. This classification includes licensed ophthalmologists who specialize in the diagnosis and treatment of diseases and injuries of the eyes, and examine patients for symptoms indicative of organic or congenital ocular disorders. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the physician's or surgeon's office, such as laboratory or X-ray technicians, and nurses.

This classification excludes medical clinics, N.O.C., which are to be reported separately in classification 6109-06; psychologists and psychiatrists who are to be reported separately in classification 6109-10; and optometrists who are to be reported separately in classification 6109-09.

6109-01 Dentists, N.O.C.

Applies to establishments of licensed practitioners who are engaged in the practice of general or specialized dentistry and who are not covered by another classification (N.O.C.). Services provided by dental offices include, but are not limited to, examination of teeth and gums to determine condition, diagnosis of disease, injuries, or malformation, extractions, fillings, root canals, oral surgery, tooth replacement, cleaning, instruction on oral and dental hygiene and preventative care. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the dentist's office such as hygienists, and dental assistants or technicians.

This classification excludes dental clinics, N.O.C., which are to be reported separately in classification 6109-07.

6109-02 Chiropractors, N.O.C.

Applies to establishments of licensed practitioners not covered by another classification (N.O.C.) who are engaged in the practice of chiropractic medicine. Chiropractors diagnose and treat musculoskeletal conditions of the spinal column and extremities to prevent disease and correct abnormalities of the body believed to be caused by interference with the nervous system. They manipulate the spinal column and other extremities to adjust, align, or correct abnormalities caused by neurologic and kinetic articular dysfunction. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the chiropractor's office.

6109-04 Naturopaths, N.O.C.

Applies to establishments of health practitioners not covered by another classification (N.O.C.) who diagnose, treat, and care for patients, using a system of practice that bases treatment of physiological functions and abnormal conditions on natural laws governing the human body, relying on natural remedies such as, but not limited to, acupuncture, sunlight supplemented with diet, and naturopathic corrections and manipulations to treat the sick. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the naturopath's office.

6109-06 Medical clinics, N.O.C.

Applies to establishments operating as clinics of medical providers not covered by another classification (N.O.C.) who provide services in a typical doctor's office environment. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the medical clinic.

This classification excludes radiology and MRI referral clinics which are to be reported separately in classification 6109-17; orthotic referral clinics which are to be reported separately in classification 6109-14; and nutrition, diet or weight loss clinics which are to be reported separately in classification 6109-12.

6109-07 Dental clinics, N.O.C.

Applies to establishments engaged in the operation of dental clinics not covered by another classification (N.O.C.) who provide the full range of dental services. Services provided by dental clinics include, but are not limited to, examination of teeth and gums to determine condition, diagnosis of disease, injuries, or malformation, extractions, fillings, root canals, oral surgery, tooth replacement, cleaning, instruction on oral and dental hygiene and preventative care. This classification includes clerical office and sales personnel, and all employees engaged in dental services.

This classification excludes dentists who do not operate as part of a dental clinic who are to be reported separately in classification 6109-01.

6109-08 Physical therapists, N.O.C.

Applies to establishments of health practitioners not covered by another classification (N.O.C.) who are engaged in the practice of physical therapy, occupational therapy, respiratory therapy, or speech therapy. Therapists treat and rehabilitate people with physical or mental disabilities or disorders, to develop or restore functions, prevent loss of physical capacities, and maintain optimum performance. Includes occupations utilizing means such as exercise, massage, heat, light, water, electricity, and specific therapeutic apparatus, usually as prescribed by a physician; or participation in medically oriented rehabilitative programs, including educational, occupational, and recreational activities. *Physical therapists* plan and administer medically prescribed physical therapy treatment for patients suffering from injuries, or muscle, nerve, joint and bone diseases, to restore function, relieve pain, and prevent disability. *Occupational therapists* plan, organize, and conduct occupational therapy programs to facilitate development and rehabilitation of the mentally, physically, or emotionally handicapped. *Respiratory thera-*

pists administer respiratory therapy care and life support to patients with deficiencies and abnormalities of the cardiopulmonary system, under the supervision of physicians and by prescription. *Speech therapists* specialize in diagnosis and treatment of speech and language problems, and engage in scientific study of human communication. This classification includes clerical office and sales personnel, as well as other employees engaged in therapy services and also includes travel to health facilities or other locations to administer therapy services.

6109-09 Optometrists, N.O.C.

Applies to establishments of optometrists not covered by another classification (N.O.C.). Optometrists are licensed practitioners, but do not hold a medical degree. An optometrist in general practice examines patients' eyes to determine the nature and degree of vision problems or eye diseases and prescribes corrective lenses or procedures, performs various tests to determine visual acuity and perception and to diagnose diseases and other abnormalities, such as glaucoma and color blindness. An optometrist may specialize in the type of services provided, such as contact lenses, low vision aids, or vision therapy, or in the treatment of specific groups such as children or elderly patients. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the optometrist's office.

This classification excludes optometrists employed by optical goods stores who are to be reported separately in classification 6308, and ophthalmologists who are to be reported separately in classification 6109-00.

6109-10 Psychologists and psychiatrists, N.O.C.

Applies to establishments of licensed practitioners not covered by another classification (N.O.C.) who are engaged in the diagnoses and treatment of patients with mental, emotional, or behavioral disorders. *Psychologists* are licensed practitioners who diagnose or evaluate mental and emotional disorders of individuals and administer programs of treatment. They interview patients in clinics, hospitals, prisons, and other institutions, and study medical and social case histories. *Psychiatrists* are licensed practitioners who diagnose and treat patients with mental, emotional, and behavioral disorders. They organize data obtained from the patient, relatives, and other sources, concerning the patient's family, medical history, and the onset of symptoms, and determine the nature and extent of mental disorder and formulate a treatment program utilizing a variety of psychotherapeutic methods and medications. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the doctor's office.

6109-12 Nutrition, diet, or weight loss clinics, N.O.C.

Applies to establishments engaged as nutrition, diet, or weight loss clinics not covered by another classification (N.O.C.) which provide programs whereby clients may achieve a healthy and permanent weight loss. The programs vary in approaches but most are based on the behavior modification theory, utilizing private counseling or group support meetings and seminars to educate individuals about their eating habits and proper eating patterns. Some programs may sell vitamin supplements or a line of food products to be used by their clients and may publish newsletters or other forms of literature for the benefit of their clients. This classification includes clerical office and sales personnel.

This classification excludes exercise programs which are to be reported separately in the appropriate classification.

6109-13 Childbirth classes

Applies to establishments providing childbirth education for expectant parents. Topics include, but are not limited to, expectations during pregnancy, breathing and relaxing techniques, and massage therapy. Literature and/or movies may be provided in addition to oral instruction. This classification includes clerical office and sales personnel.

6109-14 Orthotic referral clinics

Applies to establishments operating as clinics to provide care to patients with disabling conditions of the limbs and spine by fitting and preparing orthopedic braces under the direction of and in consultation with physicians. Orthotists examine and evaluate the patient's needs in relation to disease and functional loss, and assist in the design of an orthopedic brace. Orthotist select materials, makes cast measurements, model modifications and layouts. When the brace is finished, they evaluate it on the patient, make adjustments to ensure correct fit, and instruct the patient in the use of the orthopedic brace. This classification also includes clinics of prosthetists who provides care to patients with partial or total absence of a limb by planning fabrication of, writing specifications for, and fitting the prosthesis under the guidance of and in consultation with a physician. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the referral clinics.

This classification excludes the manufacture of orthopedic braces, splints or prostheses which is to be reported separately in the applicable classification.

6109-15 Midwife services

Applies to establishments engaged in the practice of midwifery. Midwives provide care for women undergoing medically uncomplicated pregnancy and low risk labor and delivery. The delivery may take place in a clinic setting or in the expectant mother's home. This classification includes clerical office and sales personnel.

6109-16 Licensed massage therapy services

Applies to establishments of licensed practitioners who are engaged in the practice of massage therapy. Some massage therapists work in conjunction with physicians or sports teams, or at hospitals, rehabilitation facilities or convalescent homes. If a client is referred by a physician, the therapist will review the medical report and in conjunction with the client, will determine the nature of the massage (whether it is for relaxation or to correct or relieve a medical problem) and the modality to be used, such as deep-muscle work, trigger-point therapy, or joint rotation. This classification includes clerical office and sales personnel as well as other employees engaged in licensed massage therapy services.

This classification excludes massage therapists employed by a health club, gymnasium, and unlicensed massage therapists employed by a sauna, or bath house who are to be reported separately in classification 6204.

6109-17 Radiology and MRI referral clinics

Applies to establishments of licensed practitioners who are engaged in the practice of radiology and/or magnetic resonance imaging. Radiologists diagnose and treat diseases of the human body using X-ray and radioactive substances. They examine the internal structures and functions of the organ systems and make diagnoses after correlating the X-ray findings with other examinations and tests. They administer radiopaque substances by injection, orally, or as enemas, to render internal structures and organs visible on X-ray films or fluoroscopic screens. Radiologists may employ magnetic resonance imaging technologists to operate magnetic resonance imaging equipment which produces cross-sectional images (photographs) of a patient's body for diagnostic purposes. This classification includes clerical office and sales personnel, as well as other employees engaged in service in the clinics, such as nurses or technologists.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-686, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-686, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-686, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-686, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-686, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-686, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-686, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-686, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-686, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-686, filed 11/9/73, effective 1/1/74.]

WAC 296-17-68601 Classification 6110.

6110-00 Home health services and nursing care, N.O.C.

Applies to establishments engaged in providing skilled and semi-skilled nursing and home health care services to individuals who do not need the continuous care and supervision that hospitals and nursing facilities can provide. Patients frequently are referred to home health agencies by physicians, hospital discharge planners or other medical professionals. Typically, a home health care provider will come to the patient's home to assess the individual's situation, recommend a plan of treatment and coordinate the plan. A nurse may function as the "case manager" for the patient and will coordinate the case plan. Usually a physician must authorize the plan of treatment for home care services. The services offered will vary according to each client's needs and can range from personal care for the patients such as bathing and grooming, cooking, housecleaning; to laboratory services; to skilled nursing services. Home health services may offer therapy services such as physical, occupational, speech, and respiratory. Care may be intermittent or long-term. This classification includes home health nursing visits or care made on a private-duty basis.

This classification excludes home health care social workers and dietitians with no cooking duties who may be reported separately in classification 6303 provided all the conditions of the general reporting rules covering standard exception employees have been met; private households which employ workers who serve on or about the premises in occupations usually considered as domestic service which are to be reported separately in classification 6510; and establishments engaged in providing chore workers/home care assistants to private individuals who are to be reported separately in classification 6511.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-68601, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-68601, filed 12/1/89, effective 1/1/90.]

WAC 296-17-687 Classification 6201.

6201-00 Mortuaries, funeral homes, crematoriums

Applies to establishments engaged in all operations of a mortuary, funeral home or crematorium. Funeral homes generally provide a complete burial service which includes, but is not limited to, preparing the deceased for cremation or burial (this could include beautician services), providing the casket and burial plot, conducting the funeral service, providing transportation for family of the deceased, and providing flowers. Employments in this classification include drivers, organists, singers and other musicians, embalmers, and crematory employees if they are employed by the funeral home.

This classification excludes cemetery operations which are to be reported separately in classification 6202.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-687, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-687, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-687, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-687, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-687, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-687, filed 11/9/73, effective 1/1/74.]

WAC 296-17-688 Classification 6202.

6202-00 Cemeteries

Applies to establishments engaged in providing cemetery and funeral services at one location. Cemeteries are communal burial places and range in size from small churchyards to private facilities with hundreds of acres of land. Cemeteries sell burial plots, excavate graves, prepare grave sites for interment, carry out interment services and maintain the cemetery grounds. Grounds work includes, but is not limited to, maintaining markers, and the usual maintenance work on lawns, roadways, trees, hedges and flowers. Maintenance personnel also set up tents, chairs and other burial service equipment. A grave burial involves placing caskets in the ground within a burial vault; a lawn crypt burial involves placing the casket in a pre-fabricated, pre-placed crypt. A burial vault is a cement structure used to line graves and prevent settling. Crypts can be placed in the ground, above the ground or within private and public mausoleums. A niche houses urns which contain the cremated remains of decedents. Cemeteries may provide funeral services at the cemetery, operate a chapel, and/or offer cremation services, all of which are included in this classification when conducted in connection with a cemetery operation. This classification includes pet cemeteries.

This classification excludes establishments engaged as mortuaries, funeral homes, or crematoriums which are to be reported separately in classification 6201.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-688, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-688, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-688, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-688, filed 11/9/73, effective 1/1/74.]

WAC 296-17-689 Classification 6203.

6203-00 YMCA/YWCA institutions

Applies to establishments engaged in the operation of a Young Men or Young Women's Christian or Hebrew Associations. These are international community service organizations which generally respond to the needs of their communities. Typical operations include, but are not limited to, providing temporary residential facilities, swimming and exercise facilities, basketball courts, aerobic and fitness classes, child care, youth sports programs, social and educational programs, and day camp operations. Some facilities will provide a food and beverage service. This classification includes clerical office and sales personnel.

This classification excludes camp operations which are to be reported separately in classification 6209.

6203-01 Boys or girls clubs

Applies to establishments engaged in operating boys or girls clubs. These clubs are nonprofit organizations which provide recreation, cultural enrichment, health and physical education, and personal adjustment services for boys and girls from 6 to 18 years of age. These facilities differ from location to location, but many offer gymnasiums, organized sports programs, day camp operations, game rooms, library or computer rooms, classes and various other supervised activities where young people can spend time. Some facilities also have swimming pools and offer meal programs. This classification includes Girl & Boy Scout councils that provide counseling to local scout troops, and clerical office and sales personnel.

This classification excludes camp operations which are to be reported separately in classification 6209.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-689, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-689, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-689, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-689, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-689, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-689, filed 11/30/81, effective 1/1/82; Order 75-38, § 296-17-689, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-689, filed 11/9/73, effective 1/1/74.]

WAC 296-17-690 Classification 6204.

6204-00 Baths or saunas, N.O.C.

Applies to establishments engaged in operating baths or saunas not covered by another classification (N.O.C.). These facilities offer a variety of services such as, but not limited to, hot tubs, saunas, steam rooms, Jacuzzis, sun tan beds and body shampoos. Massage therapy services are included in this classification when performed by employees of employers subject to this classification. This classification excludes licensed massage therapists that qualify for classification 6109.

Special note: The distinction between massage therapists covered in this classification and massage therapists covered in classification 6109 is professional licensing.

6204-04 Exercise or health institutes, gymnasiums, health clubs

Applies to establishments engaged in operating exercise or health institutes, gymnasiums, or health clubs. These establishments accommodate a variety of exercise areas including, but not limited to, gymnasiums, swimming pools, racquetball, tennis, squash, and handball courts, jogging tracks, and weight rooms with nautilus equipment. Operations vary from location to location, but most offer facilities and services such as, but not limited to, locker rooms, showers, whirlpools, saunas, sun tanning booths, body toning equipment, aerobic, gymnastic, and martial arts classes, instruction or training in achieving physical fitness goals, nutrition counseling, towel service, child care, massages, pro shops and food and beverage services all of which are included when performed or conducted by employees of employers subject to this classification.

This classification excludes licensed massage therapists that qualify for classification 6109.

Special note: The distinction between massage therapists covered in this classification and massage therapists covered in classification 6109 is professional licensing.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-690, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-690, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-690, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-690, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-690, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-690, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-690, filed 11/9/73, effective 1/1/74.]

WAC 296-17-691 Classification 6205.

6205-00 Clubs, N.O.C.

Applies to establishments engaged in operating clubs not covered by another classification (N.O.C.). Types of clubs contemplated by this classification include, but are not limited to, fraternal, special interest, or social clubs and clubs whose interests revolve around sports activities such as golf, tennis, boating, skiing, fishing, and swimming. The facilities and services offered vary depending on the type and size of the club. Even in an organization that has several locations, the facilities may vary greatly from a simple bar and snack food operation to a large restaurant with dancing areas, gymnasiums, and saunas. These types of clubs charge membership fees and dues as opposed to clubs or halls in classification 6607 which are open to the public. This classification includes all food and beverage operations.

This classification excludes YMCAs and boys/girls clubs which are to be reported separately in classification 6203; health clubs and gymnasiums which are to be reported separately in classification 6204; golf courses which are to be reported separately in classification 6206; and community and social centers which are to be reported separately in classification 6607.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-691, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-691, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-691, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-691, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-691, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-691, filed 11/9/73, effective 1/1/74.]

WAC 296-17-692 Classification 6206.

6206-06 Golf courses, N.O.C.

Applies to establishments engaged in operating public or private golf courses. Pro shops, miniature golf courses, and driving ranges operated in connection with the golf course are included in this classification. Typical operations of a pro shop include, but are not limited to, selling golf clubs, golf balls, specialty clothing, and related golfing items, renting carts, arranging tee times, and collecting green fees. Also included in this classification are snack bars operated at the golf course when limited to the same hours as the golf course is open. Typical employees include golf pros, greens keepers, caddies, and snack bar employees.

This classification excludes establishments operating miniature golf courses and driving ranges which are to be reported separately in classification 6208 and "bona fide" restaurant operations which may be reported separately in classification 3905. For purposes of this classification a "bona fide" restaurant at a golf course is operated independent of the course and is open to the public even when the golf course is closed.

Special note: A pro shop operated by an independent concessionaire may qualify for classification 6309, provided the pro shop does not operate the course, collect green fees, or perform other functions of managing a golf course.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-692, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-692, filed 5/31/96, effective 7/1/96; 87-12-032 (Order 87-12), § 296-17-692, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-692, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-692, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-692, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-692, filed 11/9/73, effective 1/1/74.]

WAC 296-17-693 Classification 6207.

6207-00 Carnivals - traveling

Applies to those employees of an employer engaged in operating traveling carnivals, who are drivers and/or engaged in the set up and/or tear down of mechanical and nonmechanical amusement rides, and any temporary structure associated with a traveling carnival such as, but not limited to, game, food, or souvenir concession booths, mobile offices, aid rooms or ticket booths.

This classification excludes clerical office employees who are assigned to a permanent office location with no outside duties who may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met; clerical employees who travel with the carnival or with ride operators and who work out of a mobile office, ride operators, game attendants, ticket sellers/takers and personnel involved in the care, custody, and maintenance of carnival facilities who are to be reported separately in classification 6208; establishments engaged in operating mechanical or nonmechanical rides at a permanent location which are to be reported separately in classification 6208; and establishments engaged in operating video or amusement game arcades at a permanent location, not within or operated in connection with an amusement park, which are to be reported separately in classification 6406.

Special note: Permanent shop employees, and those employees assigned to the shop during the winter quartering period may be reported separately in classification 5206 provided the conditions set forth in WAC 296-17-675 have been met.

6207-01 Circuses - traveling

Applies to establishments engaged in operating a traveling circus. Work contemplated by this classification includes all preparations, operations and maintenance normally performed by employees of an employer having operations subject to this classification. Employments include, but are not limited to, drivers, trainers, performers, ticket sellers/takers, clerical staff who travel with the circus, set up/tear down of mechanical and nonmechanical rides, concession booths or stands, mobile offices, aid rooms, ticket booths and all other temporary structures associated with a traveling circus.

This classification excludes clerical office employees who are assigned to a permanent office location with no outside duties, who may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met.

Special note: Classifications 6208 and 5206 do not apply to circus operations.

6207-02 Amusement rides - traveling

Applies to establishments engaged in operating mechanical or nonmechanical amusement rides. Employments contemplated by this classification include, but are not limited to, drivers and all employees engaged in the set up and tear down, operation, and maintenance of mechanical and nonmechanical rides and all other temporary structures associated with the amusement rides.

This classification excludes clerical office employees who are assigned to a permanent office location with no outside duties, who may be reported separately in classification 4904 provided all the conditions of the general reporting rule covering standard exception employees have been met; clerical employees who travel with the amusement operations and work out of a mobile office, ride operators, attendants, ticket sellers/takers, and personnel involved in the care, custody, and maintenance of amusement facilities who may be reported separately in classification 6208; employers engaged in operating mechanical or nonmechanical rides at a permanent location which are to be reported separately in classification 6208; and establishments engaged in operating video or amusement game arcades at a permanent location, not within or operated in connection with an amusement park, which are to be reported separately in classification 6406.

Special note: Permanent shop employees, and those employees assigned to the shop during the winter quartering period, may be reported separately in classification 5206 provided the conditions set forth in WAC 296-17-675 have been met.

6207-03 Rodeos

Applies to establishments engaged in the production of rodeos. Employments contemplated by this classification include all operations normally performed by employees of an employer having operations subject to this classification such as, but not limited to, drivers and all arena employees, setting up/tearing down temporary enclosures/structures/bleachers, clowns, gate openers, animal handlers, ticket

sellers/takers, first aid staff, and clerical staff who travel with the rodeo.

This classification excludes clerical office employees who are assigned to a permanent office location with no outside duties, who may be reported separately in classification 4904 provided all the conditions of the general reporting rule covering standard exception employees have been met; and stock handlers who contract with a rodeo producer to supply horses, bulls, or other rodeo animals, who are to be reported separately in classification 7302.

Special note: Classifications 6208 and 5206 do not apply to rodeos.

6207-04 Fireworks exhibition

Applies to establishments engaged in producing pyrotechnic exhibitions. This classification includes purchasing ready made fireworks, setting up displays, timing fuses, lighting the fireworks, and cleaning up.

This classification excludes establishments engaged in the manufacture of fireworks which are to be reported separately in classification 4601.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-693, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-693, filed 5/31/96, effective 7/1/96; 86-12-041 (Order 86-18), § 296-17-693, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-693, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-693, filed 2/28/85, effective 4/1/85; Order 77-27, § 296-17-693, filed 11/30/77, effective 1/1/78; Order 73-22, § 296-17-693, filed 11/9/73, effective 1/1/74.]

WAC 296-17-694 Classification 6208.

6208-00 Amusement parks; exhibition caves or caverns

Applies to establishments engaged in providing amusement parks to the public or in the operation of cave or caverns for exhibition purposes. Establishments subject to this classification are located on a permanent site and usually offer a variety of activities such as, but not limited to, amusement rides, water slides, miniature golf, and games such as tossing rings, throwing balls, and shooting air rifles. There may be one or more separate arcade areas located within the park. This classification includes rides, ticket sellers, gate attendants, food and beverage operations, care, custody and maintenance of the above facilities and operations similar to a traveling carnival.

This classification excludes set up, tear down and delivery of amusement park rides, games and food booths which are to be reported separately in classification 6207.

6208-01 Ranges: Archery, ball, dart, golf, firearms shooting

Applies to establishments engaged in operating indoor or outdoor archery, ball, dart, golf, and firearms shooting ranges. Golf driving ranges subject to this classification are operated separately from a golf course. If the driving range is operated in conjunction with a golf course, then the entire establishment is to be reported separately in classification 6206. Ball ranges (batting cages) are establishments set up to provide batting practice. Archery ranges are permanent establishments that provide targets for practice. If these operations are conducted in conjunction with an amusement park, then the entire operation is to be reported separately in classification 6208-00. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

This classification excludes miniature golf courses which are to be reported separately in classification 6208-07, and ranges that use air rifles which are to be reported separately in classification 6208-10.

6208-03 Boat rental facilities

Applies to establishments engaged in renting row boats, paddle boats, rubber rafts or similar water craft for recreational purposes when the water is part of a park. This classification includes the operation of bumper boat amusement rides if that is the sole function of the establishment. If the bumper boats are operated as part of an amusement park, the entire establishment is to be reported separately in classification 6208-00. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

6208-04 Fairs

Applies to establishments or community organizations engaged in managing, sponsoring and conducting fairs. These are usually annual events sponsored by a town or community. Many of the exhibitors and concessionaires are independent businesses that rent space at the fair site. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

6208-05 Shows - animal

Applies to establishments engaged in managing, sponsoring and conducting animal shows such as pet or livestock exhibitions. Employments contemplated by this classification include, but are not limited to, ticket sellers, judges, security personnel, and the showing of the animals in the arena when performed by employees of employers subject to this classification. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

This classification excludes all raising or care of animals which are to be reported separately in the applicable classification.

6208-06 Shows - flower, art

Applies to establishments engaged in managing and conducting art or flower shows. The sponsors are usually responsible for the set up and tear down of the exhibition. The exhibitors and concessionaires are usually independent booth renters. Work contemplated by this classification includes, but is not limited to, coordinating exhibitors, arranging for a facility and utilities, permits or related needs, helping set up/tear down booths, judging, and security personnel. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

6208-07 Miniature golf courses

Applies to establishments engaged in the operation of miniature golf courses. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

This classification excludes miniature golf courses operated in conjunction with an amusement park which are to be reported separately in classification 6208-00.

6208-08 Kiddie rides at permanent locations

Applies to establishments engaged in operating kiddie rides at a permanent location. Ride attendants duties include, but are not limited to, selling tickets, directing patrons getting on and off the rides, keeping order among the patrons waiting to ride, and making sure all belts and safety devices are in the proper place and functioning. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

6208-09 Race tracks

Applies to establishments engaged in the operation of race tracks such as, but not limited to, stock car, go cart, motorcycle, horse, and drag racing tracks. Employments contemplated by this classification include, but are not limited to, selling tickets, booking events, coordinating participants, and security. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

This classification excludes parimutuel clerks at a horse racing track and cashiers with no other duties who may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met; and the handling of horses or vehicles which is to be reported separately in the classification applicable to the work being performed.

6208-10 Shooting galleries for air rifles only; Laser tag, war games, paint ball facilities

Applies to establishments engaged in operating shooting galleries for *air rifles only.* If the air rifle shooting gallery is operated in conjunction with an amusement park, the entire operation is to be reported separately in classification 6208-00. This classification also applies to laser tag, war games, and paint ball facilities. This classification includes food and beverage operations and care, custody and maintenance of the above facilities.

This classification excludes operations involving any firearms such as, but not limited to, pistol or rifle ranges, which are to be reported separately in classification 6208-01.

6208-11 Carnival operations, N.O.C.

Applies to those employees of an employer engaged in operating carnivals who are not covered by another classification (N.O.C.). These employees are generally employed as ride operators, game attendants, ticket sellers/takers, and traveling clerical workers. This classification includes operations care, custody and maintenance of the above facilities.

This classification excludes clerical office employees who are assigned to a permanent office location with no outside duties, who may be reported separately in classification 4904 provided all the conditions of the general reporting rules covering standard exception employees have been met; employees engaged in driving and/or set up and tear down of all mechanical and nonmechanical rides, concession booths or stands, mobile offices, aid rooms, ticket booths, and all other temporary structures associated with a traveling carnival who are to be reported separately in classification 6207; employees of carnival operations assigned to work in food booths who are to be reported separately in classification 3905; and employees of carnival operations assigned to work in souvenir or gift shops who may be reported separately in classification 6406 provided they have no other duties.

Special note: Permanent shop employees, and those employees assigned to the shop during the winter quartering period, may be reported separately in classification 5206 provided the conditions set forth in WAC 296-17-675 have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-694, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-694, filed 5/31/96, effective 7/1/96; 86-12-041 (Order 86-18), § 296-17-694, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-694, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-694, filed 2/28/85, effective 4/1/85; 81-24-042 (Order 81-30), § 296-17-694, filed 11/30/81, effective 1/1/82; Order 76-36, § 296-17-694, filed 11/30/76; Order 73-22, § 296-17-694, filed 11/9/73, effective 1/1/74.]

WAC 296-17-695 Classification 6209.

6209-03 Dude ranch resorts

Applies to establishments engaged in operating a dude ranch resort where vacationers experience the western style of life on a ranch. Activities include, but are not limited to, horseback riding, grooming the ranch animals, hay rides, swimming, ranch style meals, and nightly singing round the campfire. Operations include, but are not limited to, grooming and caring for animals, assisting with horseback riding, preparing ranch style meals and performing maintenance work on the ranch. This classification includes food and beverage operations and clerical office and sales personnel physically located at the resort.

This classification excludes cattle ranches which are to be reported separately in classification 7302.

6209-06 Swimming pools - public; Scuba diving instruction in pool

Applies to establishments engaged in the operation and maintenance of public swimming pools. Work contemplated by this classification includes, but is not limited to, testing and replenishing chemicals in the pool, cleaning the pool, providing lifeguards, providing swimming lessons to the public, food and beverage operations, and clerical office and sales personnel physically located at the above facilities. This classification includes the rental or sale of pool accessories such as paddle boards, fins and swim wear when performed in connection with a swimming pool facility by employees of employers subject to this classification. This classification also applies to scuba diving instructors providing lessons in a swimming pool even though they may not be employed by the swimming pool establishment.

This classification excludes scuba diving not performed in a swimming pool environment which is to be reported separately in classification 0202 and swimming clubs which are to be reported separately in classification 6205.

6209-09 Campgrounds

Applies to establishments engaged in operating public or private campgrounds. Campgrounds offer a variety of facilities and activities for families, groups, and individuals to camp overnight in recreational vehicles or tents. Typical campgrounds have a main office building for registration and information. Many have retail stores that sell groceries, souvenirs, camping equipment, fishing gear, and supplies, and/or snack bars, restaurants, game rooms, rental operations for

recreational equipment, shower facilities, and laundries, which are all included in this classification. Campground activities include, but are not limited to, swimming (in a pool or lake), fishing, boating, hiking, archery, arts and crafts, miniature golf, shuffleboard and other games. Typical occupations include, but are not limited to, counselors, cooks, ground and maintenance personnel, nurses, housekeepers, security guards, lifeguards, store clerks and game attendants. This classification includes clerical office and sales personnel physically located at the above facilities.

This classification excludes day camp operations that do not include overnight accommodations which are to be reported separately in the applicable classification and state park campgrounds which are to be reported separately in the applicable state agency classifications.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-695, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-695, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 89-24-051 (Order 89-22), § 296-17-695, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-695, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-695, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-695, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-695, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-695, filed 11/30/81, effective 1/1/82; Order 76-36, § 296-17-695, filed 11/30/76; Order 73-22, § 296-17-695, filed 11/9/73, effective 1/1/74.]

WAC 296-17-696 Classification 6301.

6301-00 Sales personnel: Vehicles and marine pleasure craft

Applies to sales employees of establishments engaged in selling and/or leasing new and/or used automobiles, trucks, campers, recreational vehicles, mobile homes, motorcycles or other all-terrain vehicles, or boats and other marine pleasure craft and who are not covered by another classification assigned to the employer's account. Duties contemplated by this classification are limited to sales training, test driving, showing and demonstrating vehicles, completing paper work, and arranging for delivery of purchased vehicles.

Special note: This is a restrictive classification; the qualifying factor is that all the conditions of the general reporting rules covering standard exception employees have been met.

6301-06 Instructors of driving schools

Applies to instructors of driving schools. Instructors duties include, but are not limited to, demonstrating driving techniques, and observing student drivers.

This classification excludes administrative staff and classroom instructors of driving schools who are to be reported separately in classification 6103; vehicle repair or maintenance staff who are to be reported separately in classification 3411; and high school driving instructors who are to be reported separately in classification 6104.

6301-07 Limousine drivers

Applies to drivers of establishments engaged in providing limousine services to others. Limousine services provide luxury transportation for special occasions such as, but not limited to, birthday parties, weddings, dances, sporting events, concerts, and corporate business functions. Clients usually travel in groups from two to ten. Drivers are professionally trained chauffeurs; they generally provide services by appointment from specific locations to set destinations, and often wait with the vehicle while clients attend events. Depending on the occasion, the limousine service may also provide beverages, snacks, balloons, or flowers. Since the service is intended for luxury as opposed to meeting deadlines, the hazards of driving differ from most other professional drivers.

This classification excludes employees who repair and/or service the company's limousines who are to be reported separately in classification 3411.

Special note: Clerical office employees may be reported separately in classification 4904 provided all the conditions of the general reporting rule covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-696, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-696, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-696, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-696, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-696, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-696, filed 11/9/73, effective 1/1/74.]

WAC 296-17-697 Classification 6302.

6302-00 Sales personnel: Door to door

Applies to sales personnel engaged in door-to-door sales of merchandise. Types of merchandise include, but are not limited to, coffee, tea, or other grocery items, mops, brushes, carpets or other household furnishings, vacuum cleaners, books, and magazines. Duties contemplated by this classification are limited to showing samples or brochures describing items for sale, completing paperwork for orders, and driving. Sales persons take orders and have the products shipped directly from a distributor to the consumer.

This classification excludes sales employees who deliver the sold products or who sell directly from stock kept in their vehicle who are to be reported separately in classification 1101.

Special note: This is a restrictive classification; the qualifying factor is that all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-697, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-697, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-697, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-697, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-697, filed 11/9/73, effective 1/1/74.]

WAC 296-17-698 Classification 6303.

6303-00 Outside sales personnel, N.O.C.; messengers

Applies to those employees whose job duties and work environment meet *all* the conditions of the general reporting rules covering outside sales personnel, and who are not covered by another classification (N.O.C.) assigned to the employer's account. Duties of outside sales personnel contemplated by this classification are limited to soliciting new customers by telephone or in person, showing, selling, and explaining products or services, servicing existing accounts, completing correspondence, placing orders, performing public relations duties, and estimating. Duties of messengers are

limited to delivering interoffice mail, making deposits, and similar duties that are exclusively for the administration of the employer's business.

This classification excludes the delivery of products or merchandise or the stocking of shelves which is to be reported separately as applicable; the demonstration or delivery of machinery or equipment which are to be reported separately as applicable, establishments engaged as collection agencies or public relations agencies which are to be reported separately in classification 5301; establishments engaged in providing inspection and valuations exclusively for insurance companies which are to be reported separately in classification 4903.

Special note: When considering this classification care must be taken to look beyond titles of employees. Employees with occupational titles such as, but not limited to, collectors, counselors, consultants, or appraisers may or may not qualify for this classification. This is a restrictive classification; the qualifying factor is that all the conditions of the general reporting rules covering standard exception employees have been met.

6303-03 Insurance sales personnel and claims adjusters

Applies to insurances sales personnel and claims adjustors with outside duties. Duties of employees subject to this classification are limited to selling insurance policies at their place of business or at the client's home, or going to the scene of an accident or catastrophe to assess damage. Work may be performed within an office or away from the employer's premises.

Special note: This is a restrictive classification and is not to be assigned unless all the conditions of the general reporting rule covering standard exception employees have been met.

6303-21 Home health care services: Social workers and dietitians

Applies to social workers and dietitians employed by home health care service establishments who provide care for handicapped individuals. Duties of these employees include teaching and assisting physically or developmentally disabled individuals in their own home to manage daily living skills such as caring for themselves, dressing, cooking, shopping, and going to the doctor. This classification also includes dietitians, sometimes called nutritionists, who usually are referred to patients by their physicians. The dietitian assesses the patient's current nutritional status, including current food intake, medical background, family history, currently prescribed medications, and social and psychological needs, then develops, a food plan to meet the patient's needs. Employees subject to this classification do no cooking.

This classification excludes nursing and home health care services which are to be reported separately in classification 6110; therapy services which are to be reported separately in classification 6109; domestic servants who are to be reported separately in classification 6510; and chore workers who are to be reported separately in classification 6511.

Special note: This is a restrictive classification; the qualifying factor is that all the conditions of the general reporting rules covering standard exception employees have been met. *This classification is not to be assigned to any account that does not also have classification 6110.*

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-698, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-698, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-698, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-698, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-698, filed 11/30/79, effective 1/1/80; Order 76-36, § 296-17-698, filed 11/30/76; Order 73-22, § 296-17-698, filed 11/9/73, effective 1/1/74.]

WAC 296-17-699 Classification 6304.

6304-00 Stores: Department - retail

Applies to establishments engaged in operating large retail stores which are characterized by specialized departments such as, but not limited to, wearing apparel, jewelry, luggage, housewares, cosmetics and furniture. For purposes of this classification, a department store will include all of the following departments: Wearing apparel, shoes and household furnishings (such as, but not limited to, window coverings, bedding, linens, lamps). A department store will also have at least two of the following departments: Furniture, jewelry, audio equipment, luggage, hardware, giftware, china, or sporting goods. This classification includes employees of specialty services such as alteration personnel, and delivery drivers. This classification is distinguishable from clothing stores in classification 6305, or retail variety stores in classification 6406, in the number of specialized departments and the variety of nonclothing or giftware merchandise for sale. This classification also includes the placement or installation of furniture items such as, but not limited to, couches, china cabinets, end tables, dining tables, bedding such as mattresses and box springs, curtains, draperies, and mirrors in customer's locations.

This classification excludes automotive service centers which are to be reported separately in the applicable service classification and the installation of carpet, floor vinyl, tile, cabinets, exterior siding, painting, fencing, roofing or similar construction related activities which are to be reported separately in the classification applicable to the construction work being performed.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6304-01 Antique variety stores - retail

Applies to establishments engaged in the retail sale of a variety of used or antique merchandise. While the majority of merchandise is used, some of the items may be new. Merchandise includes, but is not limited to, glassware, jewelry, clothing, pictures, tools, floor coverings, and silverware and could include a limited amount of furniture.

This classification excludes antique or specialty stores engaged primarily in the sale of furniture which are to be reported separately in classification 6306; antique specialty stores engaged primarily in the sale of glassware, china or silverware which are to be reported separately in classification 6406; and antique specialty stores engaged primarily in the sale of wearing apparel and/or shoes which are to be reported separately in classification 6305.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-699, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-699, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-699, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-699, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-699, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-699, filed 11/9/73, effective 1/1/74.]

WAC 296-17-700 Classification 6305.

6305-00 Stores: Clothing - retail

Applies to establishments engaged in the retail sale of new or used clothing. Merchandise varies, but generally includes shoes, jewelry, giftware, or accessories in addition to wearing apparel. Some establishments will specialize in certain types of clothing such as, but not limited to, athletic wear, T-shirts, coats, socks, or vintage clothing. This classification also applies to stores that rent clothing such as, but not limited to, costumes, tuxedos, or wedding apparel. This classification includes all store employees including specialty services such as alterations personnel and delivery drivers.

This classification is distinguishable from department stores in classification 6304 or retail variety stores in classification 6406 in the limited number of specialized departments and the variety of nonclothing or giftware merchandise for sale.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6305-01 Stores: Dry goods - retail

Applies to establishments engaged in the retail sale of a variety of new or used dry goods. For purposes of this classification dry goods include, but are not limited to, fabric, embroideries, veiling, laces, textile trimmings, curtains, draperies, blankets, bedspreads, sheets, pillowcases, tablecloths, napkins, and towels. This classification includes all store employees.

This classification is distinguishable from retail fabric stores in classification 6406 in that dry good stores will carry primarily finished piece goods for sale while fabric stores will carry primarily fabric, sewing notions and a limited supply of finished goods.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6305-02 Stores: Shoe - retail

Shoe shine stands

Applies to establishments engaged in the retail sale of new or used shoes. Establishments may sell a full line of shoes or they may specialize in certain types such as athletic shoes, safety shoes, work boots, women's, men's, or children's shoes. It is customary for shoe stores to sell some related products such as, but not limited to, handbags, socks, belts, or shoe care products. This classification includes all store employees. This classification also applies to shoe shine stands.

This classification excludes establishments engaged in the manufacture or repair of shoes or boots which are to be reported separately in classification 3802.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6305-04 Stores: Western wear, including tack - retail

Applies to establishments engaged in the retail sale of new or used western style clothing. Merchandise varies, but may also include western style shoes and boots, jewelry, giftware, or horse tack. This classification includes all store employees including specialty services such as alterations personnel and delivery drivers.

This classification is distinguishable from department stores in classification 6304 in that classification 6305 businesses are not comprised of specialized departments and do not carry furniture, housewares, and similar items required as part of the department store classification.

This classification excludes establishments engaged exclusively in the sale of horse tack and related animal grooming and care products which are to be reported separately in classification 2009 "farm supply stores."

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6305-05 Stores: Wig or hat - retail

Applies to establishments engaged in the retail sale of new or used wigs or hats. Merchandise varies, but generally these establishments will also sell related hair care products, hat pins, broaches or similar accessory items. This classification includes all store employees.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6305-06 Custom dressmaking, tailoring, alterations

Applies to establishments who provide custom dressmaking, tailoring, or alterations services to others. Activities include the showing of sketches and fabrics, modeling samples, taking individual orders and measurements, cutting, basting and fitting. Employees use sewing machines, but much of the work is hand sewing, steaming or pressing. Materials include fabrics, buttons, zippers, and sewing notions. Tools and machinery include, but are not limited to, scissors, steam presses and irons, dress forms, and sewing machines with attachments to perform a variety of sewing functions. Custom dressmakers and tailors may sell fabrics and sewing notions, or limited supply ready-made apparel. The sale of these items by establishments engaged in custom dressmaking or tailoring is included in this classification. This classification is distinguishable from clothing manufacturers in classification 3802 in that establishments subject to classification 6305 make custom clothing for individuals rather than making garments on a quantity basis. However,

customers of a 6305 business may order several items of a kind such as for a wedding party or small theater group.

This classification excludes the mass production of wearing apparel which is to be reported separately in classification 3802.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-700, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-700, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-700, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-700, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-700, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-700, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-700, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-700, filed 11/9/73, effective 1/1/74.]

WAC 296-17-701 Classification 6306.

6306-00 Stores: Furniture - wholesale or retail
Stores: Billiard or pool table - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of new, used, or antique household furniture. This classification also includes the sale of related items such as, but not limited to, lamps, bedding, pillows, floor and window coverings, framed pictures, art pieces and sculptures when sold in connection with a furniture store operation. This classification includes the delivery and the incidental repair of merchandise sold. Incidental repair in this classification is limited to such activities as the repair or cleaning of upholstery or fixing a small scratch on a table. The installation of carpet and window coverings may be included in this classification if such merchandise is part of the store's inventory and is readily available for sale and delivery to the customer. The contract installation of any merchandise which must be ordered from a factory or distributor to fulfill the terms of contract is to be reported separately in the classification applicable to the work being performed. For example, a furniture store could bid on a job to carpet all units of an apartment complex. If the carpet is ordered from the factory as opposed to carpet carried at the store and in the stores inventory, then the installation is to be reported separately in classification 0502. This classification also applies to stores that sell billiard or pool tables.

Special note: Care should be exercised when considering this classification for antique or used furniture stores since such establishments may actually be a furniture refinishing business or an upholstery shop which are to be reported separately in the appropriate classification. Repair work covered by this classification (6306) is limited to such activities as fixing a small scratch on a table, replacing a piece of glass or mirror in a china or curio cabinet, sewing on a button or adjusting a reclining chair mechanism. Classification 6306 should not be assigned to an establishment that is engaged in furniture refinishing, or upholstery work which are to be reported separately in the applicable service or repair classification.

6306-01 Stores: Furniture - rental

Applies to establishments engaged in the rental of new, used, or antique household furniture. This classification also includes the sales of related items such as, but not limited to, lamps, bedding, pillows, framed pictures, art pieces and sculptures when sold in connection with a furniture rental store operation. This classification includes the delivery and the incidental repair of merchandise rented. Incidental repair in this classification is limited to such activities as the repair or cleaning of upholstery or fixing a small scratch on a table. This classification also applies to establishments that provide rent-to-own purchasing options, and to establishments engaged in the sale or rental of hospital beds, motorized wheelchairs and similar patient appliances.

Special note: Care should be exercised when considering this classification for an antique or used furniture store since such establishments may actually be a furniture refinishing business or an upholstery shop which are to be reported separately in the appropriate classification. Repair work covered by this classification (6306) is limited to such activities as fixing a small scratch on a table, replacing a piece of glass or mirror in a china or curio cabinet, sewing on a button or adjusting a reclining chair mechanism. Classification 6306 should not be assigned to an establishment that is engaged in furniture refinishing, or upholstery work which are to be reported separately in the applicable service or repair classification.

6306-02 Stores: Appliance - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of gas, electric, or propane household appliances. Household appliances include, but are not limited to, refrigerators, freezers, stoves, range tops, trash compactors, washing machines, clothes dryers, television consoles, big screen televisions, and television antennas or satellite dish receiving units. Appliance stores will routinely carry smaller appliances which are generally referred to as counter top units which include, but are not limited to, mixers, blenders, microwave ovens, toasters and espresso machines and are included in this classification when sold in connection with the appliance store operation. This classification covers the sale of primarily new appliances although establishments subject to this classification accept trade-ins and sell some used appliances. Also included is the incidental repair of appliances sold by the appliance store, parts departments employees, and the delivery of products sold. The contract installation of any merchandise which must be ordered from a factory or distributor to fulfill the terms of contract is to be reported separately in the classification applicable to the work being performed. For example, an appliance store could bid on a job to supply appliances for all units of an apartment complex. If the appliances are ordered from the factory as opposed to items carried at the store and in the stores inventory then the installation is to be reported separately in classification 0607. Establishments engaged in the sale of commercial appliances may be assigned to this classification provided such establishments operate a bonafide store operation. Generally, however, commercial appliances such as those used to equip bakeries and restaurants are factory ordered items which are made to a customer's specifications from a manufacturer's representative.

Special note: Care should be taken when considering this classification for an antique or used appliance store since such establishments are primarily engaged in reconditioning appliances (service and repair) for resale and are to be reported separately in classification 0607.

6306-03 Stores: Piano or organ - wholesale or retail

Applies to establishments engaged primarily in the wholesale or retail sale of new pianos and organs. This classification includes all operations associated with the store including service, repair, and delivery. It is common for stores subject to this classification to carry other musical instruments such as, but not limited to, guitars, drums and wind instruments as well as provide instructions on the use of instruments.

This classification excludes establishments engaged exclusively in piano tuning which are to be reported separately in classification 4107; stores that sell musical instruments other than pianos or organs which are to be reported separately in classification 6406; and establishments engaged in the reconditioning of organs and pianos accompanied by the related sales of reconditioned pianos and organs which are to be reported separately in classification 2906.

6306-06 Stores: Office furniture - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of new, used, or antique office furniture. This classification also includes the sales of related items such as, but not limited to, lamps, floor and window coverings, framed pictures, art pieces and sculptures when sold in connection with an office furniture store operation. This classification includes the delivery of furniture and related items, and the incidental repair of office furniture items sold by the office furniture store such as upholstery repair and cleaning. The installation of carpet and window coverings may be included in this classification if such merchandise is part of the store's inventory and readily available for sale and delivery to the customer. The contract installation of any merchandise that must be ordered from a factory or distributor to fulfill the terms of contract is to be reported separately in the classification applicable to the work being performed. For example, an office furniture store could bid on a job to supply modular desk units for a large office complex. If the desk units are ordered from the factory as opposed to units carried at the store and in the stores inventory, then the installation is to be reported separately in classification 2002.

Special note: Care should be exercised when considering this classification for an antique or used office furniture store since such establishments may actually be a furniture refinishing business or an upholstery shop which are to be reported separately in the appropriate classification. Repair work covered by this classification (6306) is limited to such activities as fixing a small scratch on a table, replacing a piece of glass or mirror in a china or curio cabinet, sewing on a button or adjusting a reclining chair mechanism. Classification 6306 should not be assigned to an establishment that is engaged in furniture refinishing or upholstery work.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-701, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-701, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-701, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-701, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-701, filed 11/30/83, effective 1/1/84; Order 76-36, § 296-17-701, filed 11/30/76; Order 75-38, § 296-17-701, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-701, filed 11/9/73, effective 1/1/74.]

WAC 296-17-703 Classification 6308.

6308-00 Stores: Jewelry - wholesale or retail

Applies to establishments engaged in the sale of premanufactured jewelry. Jewelry sales may be retail to consumers or on a wholesale basis to other stores and dealers. It is common for jewelry stores to employ a goldsmith who will size rings on premises, mount gem stones into settings, or make custom jewelry. Jewelry stores could also be engaged in watch repair and engraving and may offer these services as a part of the jewelry store business. Repair of watches and engraving is included in this classification when performed by jewelry store employees. Custom jewelry making subject to classification 6308-00 is distinguishable from jewelry manufacturing subject to classification 3602 in that businesses in classification 3602 are engaged primarily in the manufacture of jewelry in mass quantities, while jewelry stores in classification 6308 are primarily in the business of selling jewelry purchased from a manufacturer or dealer, and may also make custom or one-of-a-kind pieces.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6308-01 Stores: Hearing-aid - wholesale or retail

Applies to establishments engaged in the sale of hearing aids. Hearing aids are purchased directly from the manufacturer or a distributor and resold to retail consumers, or at wholesale to other hearing-aid stores. Stores subject to this classification routinely offer free hearing tests to customers. Classification 6308-01 is distinguishable from medical services rendered by a physician subject to classification 6109 in that technicians employed by hearing-aid stores subject to classification 6308 rely on sound testing equipment to conduct examinations. They can provide hearing-aid appliances to customers, but do not perform medical procedures and do not need medical certification. This classification includes technicians employed by the store who conduct hearing tests. Medical doctors, on the other hand, perform a number of medical tests including X-ray and may recommend or perform hearing corrections through surgical procedures.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6308-02 Stores: Optical - wholesale or retail

Applies to establishments engaged in the sale of optical goods such as, but not limited to, eye glasses and contact lenses. Optical stores purchase eye glass frames and premade lenses from other sources and sell them to retail customers, or wholesale to other optical stores. Stores subject to this classification routinely offer free eye exams to customers. The eye examinations are performed by optometrists or by technicians. These technicians do not need medical certification in order to conduct tests. This classification includes optometrists or technicians employed by optical stores. Classifica-

tion 6308-02 is distinguishable from medical services rendered by a physician (ophthalmologist) subject to classification 6109 in that optical stores in classification 6308 rely on testing equipment and can only provide eye glass appliances to customers. Medical doctors, on the other hand, perform a number of medical tests including X-ray and may recommend or perform vision corrections through surgical procedures.

This classification excludes establishments engaged in grinding operations as part of the manufacture of optical lenses which are to be reported separately in classification 6604 and establishments engaged in the manufacture of eye glass frames which are to be reported separately in the classification applicable to the materials and processes used.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6308-03 Stores: Clock and watch - wholesale or retail

Applies to establishments engaged in the sale of clocks and watches, including related repair. Stores subject to this classification carry an assortment of clocks and watches such as, but not limited to, cuckoo clocks, grandfather clocks, anniversary clocks, and an assortment of heirloom quality pocket or wrist watches. Establishments assigned to this classification are not engaged in the manufacture or assembly of clocks or clock kits. Clocks are purchased directly from the manufacturer or a distributor and resold to retail consumers, or at wholesale to other stores. Classification 6308-03 is distinguishable from clock or watch manufacturing subject to classification 3602 in that clock stores subject to classification 6308 are engaged exclusively in the sale of items manufactured by others and businesses in classification 3602 are engaged primarily in the manufacture of clock mechanisms.

This classification excludes establishments engaged in the manufacture of wooden components or cabinets such as those for grandfather or cuckoo clocks which are to be reported separately in classification 2905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6308-04 Stores: Trophy or awards - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of trophies, plaques, awards and related items such as, but not limited to, banners, name badges, certificates, buttons, pins, ribbons, pens, advertising or specialty items. As a convenience to their customers, trophy stores may also sell small signs or similar items which they purchase from others. Establishments subject to this classification purchase component parts from other unrelated businesses, then assemble and engrave or letter them per customer specifications. Component pieces include, but are not limited to, plastic, marble, metal, or wood bases and backings, decorative mounts, small hardware, vinyl fabric, and ready made banners. They use hand tools, table top punching or bending devices and engraving equipment. While stores may still use old style engraving machines for some custom orders, most of today's engraving or lettering is done on computerized equipment.

This classification excludes the manufacture of component pieces or signs which is to be reported separately in the classification applicable to the work being performed.

Special note: Producing "computerized vinyl lettering or designs" is a normal activity in several types of businesses such as, but not limited to, trophy stores, manufacturers of textile banners, or sign painting services in a shop. Computerized lettering or designs are made on a plotter/cutter that is attached to a computer. A roll of vinyl fabric is placed on the plotter/cutter. Designs are created on the computer, then transferred electronically to the plotter/cutter that punches them out in the vinyl material. Designs are transferred onto the backing with the use of transfer paper. One must look beyond the producing of computerized vinyl applications when determining the nature of the business being classified. An employee whose *only* duties are generating vinyl lettering or designs on computerized equipment in an office environment could qualify for classification 4904 provided all the conditions of the general reporting rule covering standard exception employees have been met.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-703, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-703, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-703, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-703, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-703, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-703, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-703, filed 11/9/73, effective 1/1/74.]

WAC 296-17-704 Classification 6309.

6309-02 Stores: Gun - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of hand guns and rifles. Gun stores subject to this classification will routinely sell related goods such as, but not limited to, knives, archery supplies, ammunition, cleaning kits, targets, target launchers, ammunition belts and specialty clothing. It is common for gun stores to repair guns for their customers. This generally consists of replacing worn or malfunctioning parts that they have in inventory, or that are special ordered from the manufacturer. Gun stores are not generally involved in machining operations although some light machine work is contemplated by this classification. Gun stores in this classification can also make custom ordered guns. This term may be misleading in that a custom gun made by a gun store is simply the assembly of various components to produce the desired gun. Depending on the size and location of the store a related shooting range may be found on the premise. Whether the shooting range is operated in connection with the store operation or by an independent business unrelated to the gun store, it is to be reported separately in classification 6208. Establishments in classification 6309-02 are distinguishable from operations covered in classification 3402, in that gun stores subject to classification 6309 are not engaged in the manufacture of guns, which includes such operations as machining barrels, fabricating triggers, springs, bolts, levers, clips and handles as well as*mass* assembly of gun components into finished goods.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-03 Stores: Bicycle - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of all types of bicycles. Bicycle stores subject to this classification will sell related goods such as, but not limited to, helmets, pumps, carrier racks, water bottles, shoes, trailers, child carriers, and specialty clothing. It is common for bicycle stores to assemble new bicycles as well as tune and repair bicycles for their customers. This generally consists of replacing worn or malfunctioning parts that they have in inventory or that are special ordered from the manufacturer. Bicycle stores subject to this classification will occasionally make a custom bicycle. This term may be misleading in that a custom bicycle may be nothing more than the assembly of various components to produce the desired bicycle, *or* it could be the actual cutting, bending, and welding of tube metal, or the cutting, rolling and heating of graphite reinforced plastic material. *Only* those custom bicycles that are assembled from components *manufactured by others* are to be reported in classification 6309 and *only* if such custom work is incidental to the primary sales of off-the-rack bicycles manufactured by others.

This classification excludes machining operations, frame welding, and establishments engaged in custom manufacturing or mass producing bicycles from nonfinished goods which are to be reported separately in the classification applicable to the bicycle frame material and process used to manufacture the finished units.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-06 Stores: Garden supply - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of homeowner type yard and garden tools, equipment, and supplies. Establishments subject to this classification will carry in their inventory and have available for immediate sale various garden tools and gloves, equipment, and supplies such as, but not limited to, rakes, shovels, post hole diggers (nonpower), hoes, wheel barrows, garden carts, edgers, weed wackers, lawn sprinklers, garden hose, lawn mowers, and chain saws. On a seasonal basis these establishments will routinely stock bags of various types of lawn, shrub and plant fertilizer, lawn seed, bags of potting soil, bags of beauty bark, flower bulbs, vegetable and flower seeds, and some bedding plants and small shrubs. This classification is distinguishable from nurseries in that nurseries sell plants, shrubs and trees that they have purchased from others or raised from seeds or cuttings, most of which are available for sale all year round. Nurseries typically sell soils and bark in bulk, but seldom sell lawn mowers, lawn tractors, edgers and similar items. Nurseries are further distinguishable from garden supply stores in that garden supply stores have a limited outside yard and are primarily composed of a store operation. Nurseries, on the other hand, have limited store operations and extensive yards where plants, shrubs, and trees are displayed and cared for, as well as extensive greenhouse operations.

This classification excludes the repair of tools and equipment sold which is to be reported separately in the classification applicable to the work being performed.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-07 Locksmiths

Applies to establishments engaged in servicing or repairing locksets. Establishments subject to this classification will have a small retail store where they sell new door locksets, repair customer locksets, re-key locksets, make duplicate keys, and sell home security items such as safes and alarm systems. In addition to store operations, this classification includes locksmith field work such as unlocking a car, removing a broken key from an ignition or door, and installing a replacement lockset in a door.

This classification excludes the installation of safes, new locksets, or dead bolt locks which is to be reported separately in classification 0607 and the installation of home security systems which is to be reported separately in classification 0608.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-08 Stores: Automobile, truck, motorcycle, or aircraft accessories or replacement parts - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of automobile, truck, motorcycle, or aircraft accessories or replacement parts. Most establishments subject to this classification carry a full line of parts ranging from batteries, wiper blades, ignition components, to engines, tires, and transmissions. However, this classification also applies to establishments that sell specialized product lines such as, but not limited to, batteries, electrical systems, or transmission parts. This classification covers only the store operation. Any vehicle, tire, or machine shop service is to be reported separately in the applicable repair or service classification. Care should be exercised when considering the assignment of this classification to an establishment engaged in vehicle service or repair as parts departments may be included in the service or repair classification. *Only* those vehicle service or repair establishments that have "full line" replacement parts stores are to be assigned to this classification and *only* when the classification that governs the repair or service permits, the parts department to be reported separately.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-09 Stores: Architectural and surveyor supplies - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of professional and technical measurement equip-

ment used primarily by architects and surveyors. Products sold by establishments subject to this classification include, but are not limited to, plan holders, plotters, lettering systems, engineering software, CAD supplies, copiers and computer paper and films. This classification includes the *in-shop* servicing or repair of products sold, such as replacing or adjusting parts.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-11 Stores: Stained art glass - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of stained art glass supplies. Operations contemplated by this classification include the receipt of merchandise purchased from unrelated businesses, dealers, or manufacturers, warehousing, stocking of shelves, cashiering, offering craft classes to customers, and delivery of merchandise to customers. Items sold by establishments subject to this classification include, but are not limited to, lead and leaded glass, crafts, light fixtures, terrarium parts, lamp shade parts, kits for picture frames, mirrors, books on stained glass, small grinders, glass cutters and other tools for making stained glass items.

This classification excludes the manufacture of stained glass and the fabrication and assembly of stained art goods which is to be reported separately in classification 3503 and stores that sell craft-making goods or hobby supplies which are to be reported separately in classification 6309-21.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-12 Stores: Wood stove and accessories - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of wood stoves, pellet stoves, fireplace inserts, and accessories. The majority of stoves today are produced from cast iron or steel plate and may be finished with enamel or paint. Stove stores subject to this classification will sell related accessories such as, but not limited to, noncombustible hearths and irons, wood holders, pellet scoops, stovepipes, metal chimneys, decorative brass legs and brass handles and bags of pellets. Some wood stove dealers may sell both stoves and spas as their main product lines. Stores that sell both are to be reported separately in classification 6309-14. This classification includes the set-up of wood stoves and heaters which can be operated as part of a display area or showroom in the store when performed by employees of this business.

This classification excludes the installation and repair of wood stoves, furnaces, air conditioning units and vacuum cleaner systems which is to be reported separately in classification 0307; masonry work which is to be reported separately in classification 0302; and chimney cleaning which is to be reported separately in classification 4910.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-13 Stores: Hardware variety, N.O.C., specialty hardware or marine hardware - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of hardware related items. Operations contemplated by this classification include the receipt of merchandise purchased from unrelated business dealers or manufacturers, warehousing of inventory, stocking of shelves, cashiering, customer load out, assistance and delivery. Establishments subject to this classification cater to homeowners and, therefore, do not carry contractor quantities of products for sale. Hardware variety stores applicable to this classification are generally small retail stores (3,000 square feet or less). Hardware variety stores will have a wide assortment of products for sale ranging from paint and painting supplies, electrical and plumbing supplies, to hand or power tools, garden supplies, housewares, and hardware. For purposes of this classification the term "hardware" applies to nails, screws, bolts, hinges, staples, chain, and similar items. Classification 6309-13 is distinguishable from classification 2009 in that the quantity of products sold by hardware variety stores subject to classification 6309-13 is limited to homeowner quantities, the selection of product is limited, and they carry only a limited selection of lumber, if at all. Hardware variety stores may also carry seasonal plants. This classification also applies to specialty hardware or marine hardware stores.

This classification excludes hardware stores that sell lumber or building materials which are to be reported separately in classification 2009.

Special notes: Care should be exercised when assigning classification 6309-13 to a business. All other store and nursery classifications are to be considered before this classification is assigned. It is common for a nursery to have a substantial inventory of hardware and tools, just as it is common for farm supply stores to sell similar products, yet these types of businesses are covered in alternative classifications.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-14 Stores: Hot tub or spa - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of hot tubs and spas. Most dealers subject to this classification have small store operations where a limited supply of spas and hot tubs are displayed. Some may have distribution centers where spas are shipped from the manufacturer and stored until delivered to a showroom or directly to a customer. The majority of spa units are portable and self-contained, which means the plumbing, pump, wiring, and controls are already in place and enclosed in the siding surrounding the tub. They are ready to use once the electricity is hooked up at the customer's site. The other type of spas are referred to as "shells, " which are usually set in place in the ground, then the pump, plumbing, electrical wiring, and any surrounding rockery or structures built around it. Stores that sell spas and hot tubs also stock related items such as, but not limited to, spa or swimming pool chemicals and cleaners,

brushes, replacement pumps and parts, filters, and spa accessories such as fragrances. Some may also sell other product lines such as swimming pool shells, wood or pellet stoves and related items such as, but not limited to, lawn furniture, barbecues, or water sports equipment. Operations contemplated by this classification include the receipt of tubs, spas, pools, pool liners, chemicals and other products from manufacturers or unrelated companies, stocking shelves, setting up displays, cashiering, delivery of products to customer locations, instruction on testing and maintaining pool waters, and incidental pump repair in the store; it does not contemplate the repair or service of pumps or pools at customer's location. Establishments that sell both wood stoves and spas are to be reported in this classification. This classification also applies to establishments that rent hot tubs and deliver them to, and pick them up from, the customer's location.

This classification excludes establishments that sell only accessories for tubs or pools which are to be reported separately in classification 6406; establishments engaged in the sale of wood or pellet stoves, but do not sell spas, which are to be reported separately in classification 6309-12; and establishments engaged in the manufacture or installation of hot tubs which are to be reported separately in the classification applicable to the work being performed.

Special notes: Spa and hot tub dealers may be licensed contractors who build swimming or wading pools, in addition to the spas and hot tubs sold. Except for the in-store pump repair, all other electrical or plumbing installation or repair work, pump repair, landscaping, building of structures, pouring of concrete, and servicing of the pool waters are excluded from this classification and are to be reported separately in the classification applicable to the work being performed.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-15 Stores: Floor covering - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of floor coverings. Establishments subject to this classification sell a variety of floor coverings and related items such as, but not limited to, sheet vinyl, floor tile, ceramic wall or countertop tile, wood parquet, floor or area rugs, carpeting, window coverings, bathroom and kitchen accessories, and supplies to install products. Other stores may specialize in only one or a few of these products. Floor covering stores generally consist of a store operation where samples of all product types are displayed. Merchandise is usually ordered from the factory or distributor per customer specifications; however some goods are kept in stock and are available for immediate sale. Operations contemplated by this classification include the receipt of merchandise purchased from unrelated businesses and manufacturers, stocking shelves, cashiering, estimating floor covering needs from plans, blue prints and customer measurements, ordering special floor coverings from distributors or manufacturers, and delivering the product to customers.

This classification excludes all installation work and the manufacture of any product sold by floor covering stores, which is to be reported separately in the applicable construction, installation, or manufacturing classification.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-16 Pawn shops

Applies to establishments engaged in loaning money to others in exchange for collateral of new or used merchandise such as, but not limited to, jewelry, video equipment, and computers. It is common for pawn shops to sell new and used merchandise they have taken as collateral for defaulted loans. Operations contemplated by this classification include receiving merchandise from others, stocking of shelves, and cashiering.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-17 Stores: Sporting goods - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of a variety of sporting goods. Operations contemplated by this classification include the receipt of merchandise purchased from other unrelated businesses, dealers, or manufacturers, warehousing, stocking of shelves, cashiering, and delivery. For purposes of this classification the term "sporting goods" includes, but is not limited to, baseball gloves, bats, balls, fishing poles, tackle, reels, tennis racquets, bicycle helmets, exercise equipment, and specialty clothing and shoes. A store may carry equipment and related items for a number of sports, or specialize in a particular sport such as skiing or fishing.

This classification excludes *stores that specialize in selling bicycles* and related items such as tire pumps, water bottles, locks, shoes and clothing, which are to be reported separately in classification 6309-03, *and stores that specialize in selling guns* and related items such as ammunition, hunting supplies, archery equipment, targets, knives, and clothing which are to be reported separately in classification 6309-02.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-18 Stores: Paint and wallpaper - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of paint and wallpaper supplies. Operations contemplated by this classification include the receipt of merchandise purchased from other unrelated businesses, dealers, or manufacturers, mixing paints and stains, warehousing, stocking of shelves, cashiering, and delivery of merchandise to customers. Establishments subject to this classification routinely offer pressure washer and spray units, and ladders for rent or sale which is included in this classification when such sales and rentals are conducted in connection with a paint and wallpaper store. This classification excludes establishments engaged in the rental of spray paint and pressure washer units which are to be reported separately in classification 1106.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided

all the conditions of the general reporting rules covering standard exception employees have been met.

6309-19 Stores: Sewing machines or vacuum cleaners - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of new or reconditioned sewing machines or vacuum cleaners. Operations contemplated by this classification include the receipt of merchandise purchased from other unrelated businesses, dealers, or manufacturers, warehousing, stocking of shelves, cashiering, demonstrating or delivering merchandise to customers, providing instructions or sewing classes to customers, and in-store repair. Sewing machine repair is generally limited and consists mainly of adjusting thread and stitch tensioners, aligning components (needle and foot), replacing electrical motor, lights and belts. Types of sewing machines include sergers, button holers, embroidery machines, and commercial machines such as those used by a tailor or an upholstery shop, but does not include industrial machines such as those used in feed and carpet mills.

This classification excludes fabric stores that may also sell sewing machines which are to be reported separately in classification 6406; and establishments engaged in the repair of industrial sewing machines which are to be reported separately in classification 3402 for shop operations and classification 0603 for field repairs.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-20 Stores: Custom framed art or U-frame - wholesale or retail; Art galleries

Applies to establishments engaged in the wholesale or retail sale of custom framed art such as, but not limited to, posters and pictures. Operations contemplated by this classification include the receipt of merchandise purchased from other unrelated businesses, dealers, or manufacturers, warehousing, stocking of shelves, cashiering, cutting matte board, glass and frame material, assembling frames, mounting art, posters or pictures into custom made or premade frames and delivery of merchandise to customers. Custom frame manufacturing covered by this classification is distinguishable from other frame manufacturing covered in classifications 3404, 2909, and 3512 in that custom frame making contemplated in classification 6309-20 consists of cutting frame material purchased from others with a specialized saw and fastening the pieces together with a small air nailer or finish screws. Frame manufacturing operations in other classifications consist of extruding metal or plastic through dies to produce the desired frame material, or planing and molding the dimensional lumber to the desired appearance, cutting material in mass quantities, fastening frames together (mass production oriented) and boxing for shipment. U-frame operations consist of selling the various components such as, but not limited to, premade frames or precut unassembled frame kits, matte board, glass and prints to customers for customer assembly. This classification also includes establishments that operate art galleries, as the framing activities are similar.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6309-21 Stores: Hobby and craft - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of hobby and craft supplies. Operations contemplated by this classification include the receipt of merchandise purchased from other unrelated businesses, dealers, or manufacturers, warehousing, stocking of shelves, cashiering, offering craft classes to customers, and delivery of merchandise to customers. Items sold by establishments subject to this classification include, but are not limited to, floral arrangement supplies, pottery supplies, art glass supplies, doll making supplies, jewelry components such as beads and wire, and artist supplies. It is common for establishments subject to this classification to also be involved in custom picture framing in connection with hobby or craft store operation.

This classification excludes the manufacture of hobby and craft goods which is to be reported separately in the classification applicable to the materials and processes and stores that specialize in the sale of stained art goods which are to be reported separately in classification 6309-11.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-704, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-704, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-704, filed 5/30/94, effective 6/30/94; 93-12-093, § 296-17-704, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-704, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-704, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-704, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-704, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-704, filed 11/29/82, effective 1/1/83; Order 76-36, § 296-17-704, filed 11/30/76; Order 75-38, § 296-17-704, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-704, filed 11/9/73, effective 1/1/74.]

WAC 296-17-706 Classification 6402.

6402-00 Stores: Grocery, N.O.C. - retail

Applies to establishments engaged in providing retail sale of a full line of grocery items. To qualify for this classification an establishment must provide for retail sale all of the following items: Canned goods, dairy products, a full line of fresh meats, frozen meats, vegetables and fruits, baked goods, carbonated and alcoholic beverages, juices, household cleaners, laundry and health care products. These stores will generally be of the supermarket size but there may be some smaller stores which are also to be included in this classification if all of the items listed above are in their inventory. Also included in this classification, when performed by employees of the store, are in-store departments or services that are provided for the customer's convenience such as in-store bakeries, delis, video rental, film developing, florists, and wine departments.

This classification excludes in-store pharmacies which are to be reported separately in classification 6406, espresso street carts or stands and lunch counter/restaurant operations

which are to be reported separately in classification 3905; convenience store or mini-markets that do not sell all of the above mentioned items which are to be reported separately in classification 6403; grocery or convenience stores with self-service gasoline operations which are to be reported separately without division of hours in classification 3410; and specialty retail stores that sell only dairy products, fruits and vegetables, soft drinks or wine and/or liquor which are to be reported separately in classification 6403.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-706, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-706, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-706, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-706, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-706, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-706, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-706, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-706, filed 11/9/73, effective 1/1/74.]

WAC 296-17-707 Classification 6403.

6403-01 Stores: Coffee, tea, or spice - retail

Applies to establishments engaged in the retail sale of specialty coffees, teas, or spices. They may sell coffee/tea in packaged and/or ready to drink forms and may offer a small selection of pastries or cookies for the customers convenience.

This classification excludes espresso street carts or stands and lunch counter/restaurant operations which are to be reported separately in classification 3905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6403-02 Stores: Dairy products - retail

Applies to establishments engaged in the retail sale of dairy products such as, but not limited to, milk, eggs, cheese, and ice cream. As a convenience to their customers, these establishments may offer a limited supply of related foods such as bread. This classification is distinguishable from other 6403 store operations in that the primary products available for sale are dairy products.

This classification excludes espresso street carts or stands and lunch counter/restaurant operations which are to be reported separately in classification 3905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6403-04 Stores: Fruit or vegetable - retail

Applies to establishments primarily engaged in the retail sale of fresh fruits and/or vegetables. These stores are usually found in individual stands at public or municipal street markets, or at roadside stands not located on the farm which may range from a small booth to a store-like operation. Sales at roadside stands away from the farm location or public markets are to be reported in this classification even if vendors grow all their own produce.

This classification excludes establishments that grow their own fruits and vegetables and sell them at their farm location which are to be reported separately in the appropriate agricultural classification as required by the general inclusion provision of the general rules, espresso street carts or stands and lunch counter/restaurant operations which are reported separately in classification 3905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6403-05 Stores: Specialty grocery - retail

Applies to establishments engaged in retail sale of specialty grocery items. Establishments subject to this classification have a limited selection of grocery items which are generally related to ethnic foods and cuisine, gourmet meats, cheeses, or condiments, health food or pet food. This classification also applies to stores that sell U-bake pizza.

This classification excludes espresso street carts or stands and lunch counter/restaurant operations which are reported separately in classification 3905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6403-06 Stores: Mini-markets or convenience grocery, N.O.C. - retail

Applies to establishments engaged as retail convenience grocery stores or mini-marts. Generally these stores sell convenience items such as, but not limited to, soft drinks, beer/wine, snack foods, candy and a limited selection of canned or boxed foods. They may also prepare foods such as sandwiches, chicken, jo jos and hot dogs. While these stores may sell a variety of grocery items they are distinguished from stores in classification 6402 in that they do not sell all of the items specified for retail grocery store operations. Generally the difference can be established by determining if the store cuts and sells fresh meat. This classification also applies to food bank operations.

This classification excludes establishments engaged as convenience grocery stores or mini-markets with self-service gasoline operations which are to be reported separately in classification 3410 and espresso street carts or stands and lunch counter/restaurant operations which are to be reported separately in classification 3905.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6403-07 Stores: Wine, liquor, or soft drinks - retail

Applies to establishments engaged primarily in the retail sale of wine, liquor, or soft drinks and an assortment of prepackaged mixed drinks, and related gift items. Establishments in this classification are not operated in connection with a manufacturing, bottling, restaurant, or tavern operation. This classification also applies to liquor stores operated

by Native American tribes and to contract state liquor stores operated by nonstate employees. This classification contemplates a minimal amount of mail order sales and locker rentals in a wine cellar operated by a wine store.

This classification excludes state operated liquor stores which are reported separately in classification 5307; establishments engaged in the distillation, brewing, or bottling of alcohol, beer or wine, which often have tasting rooms and gift shops, which are reported separately in classification 3702; and establishments engaged primarily in selling wine-making or beer-making kits and supplies which are reported separately in classification 6406.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-707, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-707, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-707, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-707, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-707, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-707, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-707, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-707, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-707, filed 11/9/73, effective 1/1/74.]

WAC 296-17-708 Classification 6404.

6404-00 Stores: Florists - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of fresh-cut flower arrangements, potted plants, balloon arrangements, or arrangements of artificial or dried flowers and foliage. These shops typically carry related gift items, such as, but not limited to, terrariums, vases, and gift cards. Operations contemplated by this classification include the receipt of flowers, plants, and other merchandise from unrelated businesses, making the arrangements, storing fresh-cut flowers in refrigerated cases, caring for potted plants in a greenhouse, and delivering items sold. Also included in this classification is the assembly and/or decoration of Christmas wreaths. Wreaths may be assembled from fresh greens and decorations added, or decorations may be attached to grapevine wreath bases or metal rings. Establishments in this classification work with hand cutting tools, glue guns, small wires and wooden stakes, floral foam or clay, greenery, wreath bases, and decorative trimmings. This classification also applies to "cottage industries" that make similar items, and to establishments primarily engaged in packing holly that was grown by others.

This classification excludes establishments engaged in the planting, cultivating, and/or harvesting of flowers, plants, shrubbery, trees, florist greens, holly, baby's breath or florist greens which are to be reported separately in the classification applicable to the work being performed.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6404-02 Stores: Indoor plants or aquariums - wholesale or retail: Sale, lease, or care of

Applies to establishments engaged in the wholesale or retail sale, lease, or care of indoor plants or aquariums. Establishments subject to this classification will deliver, set up, service, and maintain plants or aquariums at the customer's location. Maintenance/care includes, but is not limited to, watering, trimming, pruning, fertilizing, and cleaning. Such establishments will frequently have a small greenhouse facility for caring and storing plants.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6404-03 Stores: Candy or cookie arrangement - wholesale or retail

Applies to establishments engaged in the wholesale or retail sale of candy or cookie arrangements in containers such as, but not limited to, mugs, vases, booklets, and novelty items. Typical occupations include, but are not limited to, making arrangements, answering telephones, selling to walk-in customers, cashiering, and delivering the bouquets. This classification does not include any on-premise manufacturing of candies or cookies.

This classification excludes establishments engaged in retail candy sales with on-premise manufacturing which are to be reported separately in classification 3905, and establishments engaged in specialty bake shops which are to be reported separately in classification 3901.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-708, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-708, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-708, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-708, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-708, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-708, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-708, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-708, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-708, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-708, filed 11/9/73, effective 1/1/74.]

WAC 296-17-709 Classification 6405.

6405-01 Tire sales and service centers, including automobile or truck care service centers or repair garages operated in connection with a tire service or repair center

Applies to establishments engaged in the sale, installation, and repair of vehicle tires for others. This classification includes, but is not limited to, tire store employees, service managers, and auto care service employees. Services provided include, but are not limited to, tire mounting and balancing, in-shop or mobile service flat repair, alignments, brake service, muffler repair, tune-ups, and oil changes. It is common for tire centers to offer other automotive services such as wiper replacement, radiator flush, battery replacement and even major engine and transmission work which are also included in this classification. This classification is distinguishable from classification 3411 and 3413 in that classification 6405 applies to any business that installs and services tires regardless of the number of tires sold. Estab-

lishments assigned to classification 3411 and 3413 do not install or service tires. *Classification 3411 and 3413 are not to be assigned to an establishment assigned classification 6405.*

This classification excludes towing services for hire which are to be reported separately in classification 1109 and tire sales and services centers which are also engaged in tire retreading operations which are to be reported separately in classification 6405-06.

6405-06 Tire rebuilding, retreading and/or recapping

Applies to establishments engaged in rubber tire rebuilding, retreading and/or recapping either at their tire dealership location, or at a location physically separate from the tire store. Rebuilding tires differs from the manufacture of tires in that rebuilding, recapping, or retreading simply restores used tires to a usable condition by bonding new rubber onto the existing work tread and lateral surface. First, tires are inspected for separations and penetrations. To remove the tread pattern, the casing is mounted on a wheel, inflated, and smoothed with a buffer or abrasive file. Any rocks, nail heads, etc., are pulled out with air tools, and the holes repaired with a rubber patch or a strip of rubber applied with an extruder gun. In the hot process, the buffed tire is put on a spinning wheel and unvulcanized tread rubber is wrapped around the tread area of the tire body either manually or mechanically. The tire is then placed inside a curing mold which has a tread design, and heated at 320 degrees for several hours so the rubber expands into the design and forms the tread. After the tire is removed from the vulcanizing mold, it is inflated to high pressure and cooled. In the cold process, commonly referred to as bandage, the new tread is a precured strip or rubber compound with the tread design already molded into it. Only enough old rubber is removed to true the tire and provide a bonding surface. Air hoses or solvents are used to remove contaminants which would interfere with the adhesion process. The tire is inflated to its normal running pressure and a rubber cement is applied over the buffed surface by spray gun or brush. When the cement dries the precured tread is wrapped around the casing. The strip is bonded to the tire casing under pressure and heated at 210 degrees in a curing chamber. This classification excludes tire dealers that do not perform rebuilding, recapping or retreading which are to be reported separately in classification 6405-01 and the manufacture of tires which is to be reported separately in classification 3513.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-709, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-709, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-709, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-709, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-709, filed 2/28/85, effective 4/1/85; Order 75-38, § 296-17-709, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-709, filed 11/9/73, effective 1/1/74.]

WAC 296-17-710 Classification 6406.

This classification applies to specialty retail store operations engaged primarily in the sale of a wide variety of products ranging from collectibles such as stamps, coins, sports cards, and dolls to table top appliances such as portable televisions, blenders, mixers and toasters. This classification is comprised of subclassifications that cover a specific type of retail store operation. One of the subclassifications applies to the sale of products which are not covered by another classification. Although the products sold by establishments subject to this classification will vary by each subclassification, the overall operational activities are similar. Each business covered by this classification will generally employ cashiers and merchandise stockers, as well as other occupations of workers.

Special note: This classification excludes all repair operations unless it is specifically included in the classification, delivery service, on-premises manufacturing, outside installation work, and lunch counters and restaurants which are to be reported separately in the classification applicable to the work or service being performed.

Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6406-00 Retail stores, N.O.C.

Applies to establishments engaged in the retail sale of merchandise or services not covered by another classification (N.O.C.). Merchandise includes, but is not limited to, greeting cards, costume jewelry, scarves, tropical fish and birds and related fish or bird supplies, table top appliances such as mixers, blenders, microwave ovens, or table top satellite receiving units, quick print copy or FAX services and related specialty items or services. This classification also applies to establishments that provide inventory services for other businesses.

This classification excludes pet stores that sell dogs or cats and establishments engaged in pet grooming services which are to be reported separately in classification 7308; pet food stores which are to be reported separately in classification 6403; and offset, cold press and similar printing operations which are to be reported separately in classification 4101.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-01 Stores: Camera or photography supply - retail

Applies to establishments engaged in the retail sale of cameras and photography and dark room supplies such as, but not limited to, batteries, film, processing trays, chemicals, print paper, enlargers, and timers. It is common for these establishments to offer film developing services which may be either a one-hour service or an overnight process. Both types of film developing services are included in this classification when conducted in connection with a camera and photography supply store. This classification is distinguishable from classification 6506 in that establishments covered in classification 6506 are not engaged in the sale of cameras or photo developing equipment.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-03 News and magazine stands - retail

Applies to establishments engaged in the retail sale of newspapers and magazines. Establishments subject to this classification may sell newspapers or magazines from vari-

ous locations such as, but not limited to, stands at public markets, store operations in malls, or from a street corner.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-09 Arcades: Coin or token operated

Applies to establishments engaged in operating coin- or token-operated arcades. This classification covers attendants, change makers, and security personnel who monitor the game rooms and make change. Attendants may remove tokens and money from machines and may perform minor adjustments such as resetting a jarred machine.

This classification excludes the installation, removal or repair of machines which is to be reported separately in classification 0606.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-11 Stores: Office stationery and machinery - retail

Applies to establishments engaged in the retail sale of office stationery, supplies, and/or machinery. For purposes of this classification "office stationery and supplies" includes, but is not limited to, paper, writing tablets, computer software, pens, pencils, markers, staples, staplers, scissors, paper clips, and binders. "Office machinery or business machinery" includes, but is not limited to, calculators, typewriters, various types of copy machines, fax machines, and desk top and lap top computers.

This classification excludes service and repair of office/business machines which is to be reported separately in classification 4107 and establishments engaged in sale of office furniture which are to be reported separately in classification 6306.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-12 Stores: Fabric, yardage, yarn and needlework supplies -retail

Applies to establishments engaged in the retail sale of fabric, yardage, yarn and needlework supplies. It is common for establishments subject to this classification to have a small inventory of noncommercial/industrial sewing machines and sergers for sale in addition to fabric, sewing notions, patterns, and related supplies. Fabric and yarn stores may also offer sewing and craft classes which are included in this classification when taught by employees of an employer subject to this classification. This classification is distinguishable from sewing machine stores in classification 6309 in that the principle products sold in classification 6406 are fabric and sewing notions while sewing machine stores are not engaged in the sale of fabric or yardage.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-14 Stores: Wind or string musical instruments - retail

Applies to establishments engaged in the retail sale of musical instruments such as, but not limited to, drums, wind instruments, guitars, and banjos. This classification includes music lessons when provided by employees of an employer subject to this classification and includes minor adjustment services such as replacing a drum skin or a broken string on a guitar.

This classification excludes the repair of wind and string musical instruments which is to be reported separately in the applicable repair classification; establishments engaged in the repair of pianos which are to be reported separately in classification 2906; and establishments engaged in the sale of pianos and organs which are to be reported separately in classification 6306.

Special notes: Classification 6406 does not apply to any establishments that sells pianos or organs in addition to wind or string instruments. Refer to classification 6406 general description for operations excluded from this classification.

6406-16 Stores: Drug - retail

Applies to establishments engaged in the retail sale of prescription and nonprescription drugs. Establishments subject to this classification will routinely carry a variety of personal care and grooming products in addition to prescription and nonprescription drugs and may also rent crutches, canes, wheel chairs, and walkers.

This classification excludes establishments engaged in the sale and/or rental of hospital beds, motorized wheel chairs, and other patient appliances which are to be reported separately in classification 6306, and establishments engaged in the sale/rental and service (repair) of motorized mobility aids such as wheelchairs and 3-wheel scooters which are to be reported separately in classification 3309.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-17 Stores: Variety - retail

Applies to establishments engaged in the retail sale of a variety of consumer goods such as, but not limited to, housewares, linens, clothing, toys, and candy. In earlier years establishments subject to this classification were often referred to as "5 and 10 cent stores." Although these stores carry much of the same merchandise as a department store, they are distinguishable in that variety stores are not comprised of specialized departments and do not generally carry the quantity/assortment of products that department stores do.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-18 Private mail box; safety deposit box; computer tape storage facilities - rent or lease

Applies to establishments engaged in renting or leasing private mail boxes, safety deposit boxes, or computer and financial record storage facilities. Establishments subject to this classification will operate a secured facility where they receive and sort their customers' mail, parcels and packages from the U.S. Post Office or other parcel/package delivery companies, and package articles for shipment for their customers. They also provide a secured storage facility equipped with safety deposit boxes which they rent out on a short or long term basis. It is common for these establishments to offer additional services such as FAX, and copying services.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-19 Stores: Coins, stamps, baseball cards, and comic books -retail

Applies to establishments engaged in the retail sale of coins, stamps, baseball cards, comic books, and similar collectibles. Establishments subject to this classification may be engaged exclusively in mail order sales, sell from browse tables at collectible or trade shows, through specialty auctions, or may sell from a store location. Coin and stamp stores routinely sell magazines, periodicals, and supplies that cater to collections or hobbies. Card shops routinely sell other sports memorabilia such as autographed baseballs, footballs and basketballs, framed pictures, POGS and buttons.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-20 Stores: Book, record, cassette, compact disc, and video -retail

Applies to establishments engaged in the retail sale or rental of new or used books, records, cassettes, compact discs or videos. Establishments subject to this classification may be engaged exclusively in mail order sales, sell from browse tables or trade shows, through specialty auctions or may sell from a store location.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-23 Stores: Candy - retail

Applies to establishments engaged in the retail sale of packaged and unpackaged candy they have purchased from others.

This classification excludes establishments engaged in the on-premise manufacture of candy and the subsequent retail sale of these products which are to be reported separately in classification 3905; and establishments engaged in the manufacture of candy or confections for wholesale to retail establishments or distributors which are to be reported separately in classification 3906.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-24 Stores: Cigarette and tobacco - retail

Applies to establishments engaged in the retail sale of cigarettes, tobacco, and related products such as, but not limited to, pipes, pipe cleaning supplies, rolling machines, cigarette papers, lighters, lighter fluid, and cigarette cases.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-25 Stores: Telephones - retail

Applies to establishments engaged in the retail sale of telephones, pagers, and cell phones. Establishments subject to this classification are not a utility company in that they do not operate telephone exchanges and are not regulated by the Utilities and Transportation Commission of Washington. Their operations are limited to the sale of communication hardware. Stores subject to this classification may arrange activation and service for their customer, or the customer may contact the service provider directly.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-27 Stores: Stereo components - retail

Applies to establishments engaged in the retail sale of stereo components. Establishments subject to this classification will sell a variety of audio and video appliances such as, but not limited to, video players, stereos and portable televisions. These establishments may also sell and install automobile stereo speaker systems and car phone systems; however, the installation is not covered in classification 6406-27.

This classification excludes the installation, service or repair of home or car stereos and car phone systems which are to be reported separately in classification 0607, and establishments engaged in the sale of stereo and television console sets, big screen televisions, or other major appliances which are to be reported separately in classification 6306.

Special note: Classification 6306 applies to any establishment that sells TV console sets or big screen TVs, even if the majority of their inventory is stereo components and/or portable TVs. Refer to classification 6406 general description for operations excluded from this classification.

6406-29 Stores: Toys - retail

Applies to establishments engaged in the retail sale of a variety of toys, games, and related items for persons of all ages. Merchandise includes, but is not limited to, video games, tricycles or bicycles, books, dolls and stuffed animals, outdoor play equipment, and specialty clothing.

This classification excludes establishments engaged in the retail sale of sporting goods and bicycles which are to be reported separately in classification 6309. This classification is distinguishable from businesses in classification 6309 in that the principle products of stores subject to classification 6406 are toys and games, as compared to stores in classification 6309 which are primarily engaged in the sales of sporting goods and bicycles.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-30 Stores: Cosmetics - retail

Applies to establishments engaged in the retail sale of cosmetics and fragrances. Related services usually offered by these types of stores include consultations with clients regarding make-up techniques, styles, and colors.

This classification excludes hair and nail salons which are to be reported separately in classification 6501.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-31 Stores: Kitchen, bath and drapery - retail

Applies to establishments engaged in the retail sale of kitchen or bathwares such as, but not limited to, pots and pans, flatware, dishes, towels, canister sets, soap dishes, towel bars, waste baskets, plant stands, and curtains or draperies.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

6406-33 Stores: Gift shops, N.O.C. - retail

Applies to establishments engaged in the retail sale of gift items not covered by another classification (N.O.C.) such as, but not limited to, crystal and silver serving pieces, china, cut glass, picture frames, wedding and shower books and invitations, special occasion cards, decorative statues, boxed

candy, and ornaments. This merchandise tends to be of a finer selection than the everyday wares common in variety shops.

Special note: Refer to classification 6406 general description for operations excluded from this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-710, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-710, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-710, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-710, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-710, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-710, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-710, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-710, filed 11/13/80, effective 1/1/81; Order 77-27, § 296-17-710, filed 11/30/77, effective 1/1/78; Order 75-38, § 296-17-710, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-710, filed 11/9/73, effective 1/1/74.]

WAC 296-17-711 Classification 6407.

6407-00 Wholesale stores, N.O.C. - including combined wholesale and retail store operations

Applies to establishments engaged in the wholesale, or combined wholesale and retail sales of merchandise that is not covered by another classification (N.O.C.). Establishments subject to classification 6407 usually own the merchandise they sell, but may also be marketing goods on consignment, in which case classification 6407 still applies because the exposure and processes are the same. This classification is primarily the wholesale counterpart (supplier) for establishments assigned to retail store classification 6304, 6305 and 6406. Work contemplated by classification 6407 includes, but is not limited to, maintaining warehouse inventories, incidental assembly (limited to joining premade parts of bicycles, tables, etc., with screws, nuts, bolts), sorting and grading goods, and breaking down bulk quantities to repackage into smaller lots. Equipment typically used includes, but is not limited to, balers to bind merchandise into bundles, strapping equipment to secure palletized goods, forklifts, and hand tools.

This classification excludes delivery which is to be reported separately in classification 1101.

Special notes: When assigning classification 6407, care must be exercised to look beyond the words "wholesale" or "retail." The manufacturer of a product will also "wholesale" their merchandise (or a combination of their own merchandise and finished products bought from other manufacturers) to a customer. These sales are an integral part of the manufacturing/marketing process and is an inclusion in the manufacturing classification. Establishments that buy goods, such as clothing or cloth goods, in wholesale quantities, then screen print or embroider them for resale are performing manufacturing operations and are to be reported separately in the appropriate manufacturing classification.

Warehouse operations in classification 2102, with the exception of grocery dealers, do not own the product they are warehousing and are not in the business of selling the goods they store. Businesses in classification 6407 may operate a warehouse, but only as an integral part of the wholesaling/distribution process, which is included in classification 6407.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-711, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-711, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-711, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-711, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-711, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-711, filed 11/9/73, effective 1/1/74.]

WAC 296-17-712 Classification 6408.

6408-03 Dealers: Farm machinery/implement

Applies to establishments engaged in the sale, rental, or lease of new or secondhand farm machinery and implements, service and/or repair by dealer either in the dealer's shop or at the customer's site. Establishments subject to this classification will occasionally service or repair other equipment, such as farm trucks, owned by their customers, which is considered incidental to their main activity and is included in this classification. For purposes of this classification the term "farm machinery" refers to engine powered machinery such as, but not limited to, tractors, combines, and swathers. Implement refers to attachments to and/or powered by farm machinery such as, but not limited to, plows, discs, balers, and rakes. This classification includes parts and service department employees, the demonstration of machinery or implements at the dealer's premises or the customer's site, truck drivers, regional sales and/or service representatives who provide factory service or training to local dealers and to customers. The parts departments in these establishments not only provide parts to their service departments, but frequently will sell a larger quantity to the general public. Many will also carry a substantial inventory of automobile parts, for the convenience of their customers, which is also included in this classification. Establishments subject to this classification will have a large inside display room which may contain small to medium sized tractors, riding mowers, both agricultural and garden type, sprayers, pumps, generators, a limited amount of small hardware items, and supplies such as oil, filters, and belts. The variety of merchandise varies with the needs of the particular geographical area. Larger horsepower tractors, implements, and used machinery and implements, are usually displayed on outside fenced lots.

This classification excludes dairy equipment and supply dealers who are to be reported separately in classification 6407 for their "store" operations and classification 0603 for the installation, service, or repair of their machinery and equipment; wind machine dealers who are to be reported separately in classification 0603 for all field work, such as tower erection, hooking up generators and motors, installing gear boxes, and installing propane or diesel fuel tanks, as well as regular maintenance or repair work; and establishments that repair farm type tractors, but who are not involved in the sale of them, which are to be reported separately in classification 3413.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-712, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-712, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-712, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-712, filed 11/30/83, effective 1/1/84; Order 74-40, § 296-17-712, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-712, filed 11/9/73, effective 1/1/74.]

WAC 296-17-713 Classification 6409.

6409-00 Dealers: Machinery/equipment, N.O.C.

Applies to establishments engaged in the sale, rent, or lease of new or used machinery and equipment not covered

by another classification (N.O.C.), and oil or gas well equipment or supplies. For purposes of this classification the terms machinery or equipment includes, but is not limited to, diesel tractors, bulldozers, dump trucks, buses, road graders, logging towers, feller/bunchers, skidders, semi trucks, printing presses, power generators, industrial and grain milling, and concrete barriers and other flagging equipment used in construction projects. Operations contemplated by this classification include, but are not limited to, the service, repair or demonstration of machinery and equipment at the dealer's premises or customer's site, and delivery to the customer's location. Establishments subject to this classification will occasionally service or repair other equipment such as farm trucks, owned by their customers, which is considered incidental to their main activity and is included in this classification. For the convenience of their customers, the parts departments of establishments subject to this classification frequently will carry a substantial inventory of automobile parts which is also included in this classification. Establishments subject to this classification usually have a large inside showroom to display their machinery, and accessories. Large pieces of machinery and equipment and used machinery and equipment usually are displayed on outside fenced lots. The variety of merchandise carried by a machinery and equipment dealer will vary with the needs of the particular geographical area and the market being served. Included within this classification is the rental and installation of temporary fences and regional sales and/or service representatives who provide factory service or training to local dealers and other customers.

This classification excludes installation of plant equipment such as that found in printing plants, feed mills, canneries, and sawmills, which is to be reported separately in classification 0603; farm machinery and equipment dealers who are to be reported separately in classification 6408; dairy equipment and supply dealers who are to be reported separately in classification 6407 for their "store" operations and classification 0603 for the installation, service, or repair of their machinery and equipment; wind machine dealers who are to be reported separately in classification 0603 for all field work such as tower erection, hooking up generators and motors, installing gear boxes, and installing propane or diesel fuel tanks, as well as regular maintenance or repair work; and establishments that repair buses, semi trucks and tractors, and construction equipment, but who are not involved in the sale of them, which are to be reported separately in classification 3413.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-713, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-713, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-713, filed 11/30/83, effective 1/1/84; 80-17-016 (Order 80-23), § 296-17-713, filed 11/13/80, effective 1/1/81; Order 74-40, § 296-17-713, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-713, filed 11/9/73, effective 1/1/74.]

WAC 296-17-71301 Classification 6410.

6410-02 Janitorial supply dealers

Applies to establishments engaged in wholesale and/or retail distribution of janitorial supplies. Janitorial supply dealers generally sell to cleaning service companies, hospitals, schools and government agencies. A small portion of their business may involve retail sales to walk-in customers. Typical products sold include, but are not limited to, aerosols, brushes, carpet cleaning products, cleaners, strippers, deodorizers, floor sealers, polishes, paper products, toilet tissue, paper towels, hand cleaners, dispensers, waxes, mops, buckets, and floor or carpet cleaning equipment. Orders may be taken by employees who work inside the store room, by outside sales personnel, or by route drivers, all of whom are included in this classification.

This classification excludes janitorial cleaning services which are to be reported separately in classification 6602.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-71301, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-71301, filed 5/31/91, effective 7/1/91.]

WAC 296-17-714 Classification 6501.

6501-00 Barber shops

Applies to establishments engaged in providing barber and hair cutting services which may be performed in the shop, at the customer's home, or in hospitals. Barber services contemplated by this classification include, but are not limited to, shampooing and cutting hair, shaving or trimming mustaches or beards, and facials. Unique to this industry is the "booth renter." A booth renter performs cosmetology, barbering, or manicuring services in a shop, but is not an employee of the shop owner. They pay a fee for the use of the shop's booth and facilities. Classification 6501-00 applies to booth renters who elect optional coverage. This classification includes clerical office and sales personnel.

6501-01 Beauty parlors; sun tanning parlors

Applies to establishments engaged in providing beauty parlor or sun tanning parlor services which may be performed at the shop, at the customer's home, or in hospitals. Beauty parlor services contemplated by this classification include, but are not limited to, shampooing, cutting, styling or dyeing hair, manicures, pedicures, facials, and the use of body toning equipment. Indoor sun tanning booths may be operated as part of a beauty shop or conducted as a separate business. Unique to this industry is the "booth renter." A booth renter performs cosmetology, barbering, or manicuring services in a salon, but is not an employee of the salon owner. They pay a fee for the use of the salon's booth and facilities. Classification 6501-01 applies to booth renters who elect optional coverage. This classification includes clerical office and sales personnel.

This classification excludes establishments engaged exclusively as nail salons which are to be reported separately in classification 6501-02.

6501-02 Cosmetologists and electrolysis studios; tattoo parlors; nail salons

Applies to establishments engaged in cosmetology and electrolysis services and to tattoo parlors or nail salons. Cosmetologists provide personalized instructions on the application of cosmetics. Some offer "permanent cosmetic" services such as, but not limited to, application of permanent eyeliner or restructuring eyebrows. Electrolysis involves the removal of facial or body hair by destroying hair roots with an electrified needle. Nail salons may specialize in the application of

artificial fingernails. This classification includes clerical office and sales personnel.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-714, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-714, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-714, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-714, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-714, filed 11/9/73, effective 1/1/74.]

WAC 296-17-715 Classification 6502.

6502-00 Banks; credit unions; savings and loan associations

Applies to establishments engaged in providing banking and related financial services. Services include, but are not limited to, establishing and servicing checking and savings accounts, telephone, computer and in-person fund transfers, lending, vending certificates of deposit and savings bonds, providing financial consulting services and estate planning, and providing supplemental services such as automatic teller machines (ATMs) and credit cards, currency exchange, cashier and travelers checks, notary public services, and safe deposit box rentals. This classification includes clerical office and sales personnel.

This classification excludes establishments engaged in providing armored car or on-premises security which are to be reported separately in the applicable services classification.

6502-05 Mortgage companies; financial or investment companies, N.O.C.

Applies to establishments engaged in providing financial or investment services not covered by another classification (N.O.C.). This classification also applies to establishments engaged in extending credit in the form of mortgage loans by originating mortgage or real estate construction loans, selling mortgage loans to permanent investors, and servicing the loans, and to establishments that offer check cashing services. This classification includes clerical office and sales personnel and staff inspectors who authorize release of funds on construction loans.

This classification excludes mortgage brokers who are to be reported separately in classifications 4904 and 6303. Mortgage brokers do not originate loans, but provide the service of finding lenders for people who need loans.

6502-06 Stock brokers

Applies to establishments engaged in brokering stocks and other related securities. Establishments subject to this classification act as agents in the buying, selling, or exchanging of securities such as, but not limited to, stocks, mutual funds, annuities, bonds and commodity contracts for their clients. Their "full-service" usually extends to financial planning advice, arranging for IRA and KEOGH accounts, money market accounts, tax free bonds, and related financial investments. This classification also includes "investment bankers" who are primarily engaged in originating, underwriting, and distributing securities, buying and selling commodity contracts for their own account or for the account of others, and buying, selling, or trading in stocks, stocks options, bonds, or commodity contacts. This classification includes clerical office and sales personnel.

6502-07 Escrow companies

Applies to establishments engaged in providing escrow and/or title search services to the general public. They may be known either as "escrow companies" or "title companies." An escrow company is a third party who holds in custody a written agreement such as a deed or bond (escrow) which does not become effective until certain conditions are fulfilled by the grantee. Title companies conduct title searches to ensure there are no liens against property; if there are no liens, they issue a title insurance policy; if there are liens they make them known to potential buyers. Establishments subject to this classification typically provide both escrow and title search services which include the issuance of title insurance, collection and disbursement of funds for which they are custodians, providing closing of documents for the purchase of real estate, and preparing and filing the documents at the appropriate municipal offices. This classification includes clerical office and sales personnel.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-715, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-715, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-715, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-715, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-715, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-715, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-715, filed 11/9/73, effective 1/1/74.]

WAC 296-17-716 Classification 6503.

6503-00 Labor unions or employee representative associations

Applies to establishments engaged as labor unions or employee representative associations. This classification applies to the employees of the union or association itself as opposed to the members that they represent, who are employees of other businesses. These establishments act as bargaining agents for others; they maintain membership records, collect dues, and negotiate contracts. This classification includes labor union officials, business agents, organizers and other employees with combined inside and outside duties.

This classification excludes clerical office employees who may be reported separately in 4904 if the conditions of the standard exception general reporting rule are met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-716, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-716, filed 11/27/85, effective 1/1/86; 85-12-024 (Order 85-11), § 296-17-716, filed 5/31/85; 83-24-017 (Order 83-36), § 296-17-716, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-716, filed 11/24/75, effective 1/1/76; Order 73-22, § 296-17-716, filed 11/9/73, effective 1/1/74.]

WAC 296-17-717 Classification 6504.

6504-00 Stores: Charitable or welfare

Applies to those employees of a charitable or welfare organization who are engaged in operating a store. Stores of this type usually deal in used merchandise such as, but not limited to, clothing, household appliances, toys, housewares, furniture, and garden tools that has been donated to the organization. Work contemplated by this classification includes, but is not limited to, the collection of donated items from locations away from the store, conditioning donated items, stocking and cleaning the store, and cashiering. Conditioning

is limited to cleaning, reupholstery work, and minor repairs; it does not include major mechanical repairs or refinishing furniture.

This classification excludes establishments engaged in repairing and selling used appliances which are to be reported separately in classification 0607; and all other employees of the charitable or welfare organization not employed in the store who are to be reported separately in the classification applicable to the work performed.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-717, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-717, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-717, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-717, filed 2/28/85, effective 4/1/85; 81-24-042 (Order 81-30), § 296-17-717, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-717, filed 11/9/73, effective 1/1/74.]

WAC 296-17-718 Classification 6505.

6505-00 Welfare special works program

Applies to certain "employees" of nonprofit establishments engaged in finding work experience for individuals who are in need of job training or skill enhancement to make them employable or more competitive in the job market. Establishments that qualify for this classification will solicit the participation of other businesses by offering the services of one of these individuals cost-free for a limited length of time, usually less than six months. During that period the business person who has agreed to participate will supply the opportunity for work experience and the supervision of the work being performed while wages will be paid by the sponsoring organization (the establishment that qualifies for this classification). These wages come from training block grant moneys (usually a government grant) which have been provided for this purpose. State agencies, such as the employment security department, and nonprofit job counselors are typical sponsors of these programs. Work contemplated by this classification may be found in any type of work environment.

This classification excludes the permanent administrative and clerical employees of the sponsoring organization who are to be reported separately as applicable.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-718, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-718, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-718, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-718, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-718, filed 11/9/73, effective 1/1/74.]

WAC 296-17-719 Classification 6506.

6506-00 Photography studios

Applies to establishments engaged in the operation of photography studios. Photographers use a wide range of still and motion cameras; services include both sitting portraits and motion pictures of special events, and are photographed in the studio or at outside locations. Photographers may develop and print photographs in their own studio darkrooms, or they may contract out to an independent photo finishing shop. Studios may also offer services such as retouching negatives, restoration work, mounting and framing pictures, and enlarging photographs. This classification includes glamour and boudoir photography studios which often have a salon where clients have their hair styled and make-up applied. This classification also includes booths, usually located in malls, that will produce photography novelty items such as, but not limited to, cups, shirts and calendars from photographs. Photographs may be taken on location or the customer may bring a picture or negative in to have the image applied to the particular item. Video taping services performed in connection with photography studios is included in this classification.

This classification excludes delivery drivers who are to be reported separately in classification 1101; and establishments engaged in video taping services not in connection with photography studio operations which are to be reported separately in classification 6303.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6506-01 Film processing shops

Applies to establishments engaged in processing film. Operations include, but are not limited to, processing film, reproducing negatives, prints or slides, enlarging pictures, mounting and finishing, storing and mixing chemicals, and inspecting and packaging finished products. Finishing processes may be manual or automated. These shops may offer retail type film developing services to commercial laboratories that provide mass film developing and/or one-hour processing services.

This classification excludes delivery drivers who are to be reported separately in classification 1101.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6506-02 Motion picture film exchanges

Applies to establishments engaged in the operation of motion picture film exchanges. These exchanges receive fully processed movie films from producers, which they catalogue and store for subsequent rental or sale to commercial movie theaters, television networks, or other groups. Film exchanges have a projection room where customers may view the film before they book it. When rented films are returned, they are inspected and repaired as necessary. Repair usually consists of cutting out damaged section and splicing the film with special adhesive and pressure.

This classification excludes delivery drivers who are to be reported separately in classification 1101 and video rental stores which are to be reported separately in classification 6406.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

6506-03 Microfilming

Applies to establishments engaged in providing microfilming services for others. Microfilming reproduces and preserves documents onto film in greatly reduced sizes to allow the storage of information in less space. Documents are photographed; the film is developed in automatic processing units, then stored on reels or cartridges or cut into microfiche. Establishments subject to this classification usually offer related services such as, but not limited to, advice on setting up micrographic systems, the sale or rental of supplies or equipment, storage facilities, keypunch services, film restoration, and/or the destruction of source materials.

This classification excludes drivers who are to be reported separately in classification 1101.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-719, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-719, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-719, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-719, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-719, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-719, filed 11/30/81, effective 1/1/82; Order 73-22, § 296-17-719, filed 11/9/73, effective 1/1/74.]

WAC 296-17-722 Classification 6509.

6509-04 Boarding homes and centers, N.O.C., adult family homes, rooming houses, foster homes, and orphanages

Applies to establishments engaged in providing residential and social care for children, aged, and special categories of persons who are ambulatory and for whom medical care is not a major element. This classification includes, but is not limited to, alcohol and drug rehabilitation centers, shelters for the homeless, safe houses for abused women and children, orphanages, homes for mentally, emotionally, physically, and developmentally disabled individuals, adult family homes, and group homes as well as halfway homes for delinquents and offenders. Alzheimer care facilities are also included in this classification. Work contemplated by this classification includes meal service, linen service, housekeeping and transportation. Medical care includes only the administration of drugs.

This classification excludes convalescent, assisted living, and nursing homes which are to be reported separately in classification 6108.

6509-05 Fraternity or sorority houses

Applies to establishments providing living accommodations to *only* those college and university students who are members of the fraternity or sorority. Fraternities and sororities operate as independent political, economic and social organizations within the guidelines of the college. Fraternity and sorority houses normally have all the amenities of a home-kitchen, living room, dining room, bedrooms and bathrooms. Chapter houses may also have a party room with floor space for social functions and a Chapter room which are a combination library, study, meeting and trophy room. Employments contemplated by this classification includes house directors who supervise and manage facility, cooks, helpers and facilities maintenance.

6509-07 Retirement centers

Applies to establishments engaged in operating retirement centers which cater to the elderly by offering an independent life style in a communal environment. Differing from a boarding home, a retirement center will usually offer a studio, one bedroom or two bedroom apartments as opposed to a single room. Most offer a full service dining area for all meals, exercise programs for individuals or groups, a hairdresser, gift shop, housekeeping/laundry service, a full social/activity program, security, as well as assisted living services. Assisted living services, if offered, include, but are not limited to, assistance in maintaining the resident's schedule for prescription medication, transportation for medical appointments, and 24 hour on-call emergency assistance. On-call emergency services may be provided by a full-time nurse who can assess situations and summon a doctor or ambulance as necessary.

Special note: Residents of a retirement center are capable of an independent lifestyle and do not require an on-site physician or personal care services. Businesses engaged in providing temporary or permanent residences which provide various levels of medical and *personal care services such as feeding, bathing, and personal hygiene* are to be reported separately in classification 6108.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-722, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-722, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-722, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-722, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-722, filed 11/9/73, effective 1/1/74.]

WAC 296-17-72201 Classification 6510.

6510-00 Domestic servants employed in or about the private residence of a home owner

Applies to individuals employed by a home owner to provide domestic services in the home owner's private residence. This classification includes services such as, but not limited to, cooking, housekeeping, caring for children, running errands, shopping, and transporting members of the household by vehicle to appointments, after school activities, or similar activities.

This classification is subject to the provisions of RCW 51.12.020 - Employments excluded - which states in part: "The following are the only employments which shall not be included within the mandatory coverage of this title: Any person employed as a domestic servant in a private home by an employer who has less than two employees regularly employed forty or more hours a week in such employment." This classification is also subject to the provisions of RCW 51.12.110 which allows the employer to elect optional coverage for domestic servants.

This classification excludes chore services which are to be reported separately in classification 6511; domestic (residential) cleaning or janitorial services which are to be reported separately in classification 6602; and skilled or semiskilled nursing care which is to be reported separately in classification 6110.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-72201, filed 8/28/98, effective 10/1/98.]

WAC 296-17-72202 Classification 6511.

6511-00 Chore services

Applies to establishments engaged in providing chore workers/home care assistants to private individuals. The services performed by the chore workers/home care assistants include, but are not limited to, general household chores, meal planning and preparation, shopping and errands either with or without the client, personal care such as bathing, body care, dressing, and help with ambulating, as well as companionship. Frequently the recipients of service are funded by DSHS or some other community service agency; however, the services are also available to those who pay privately.

This classification excludes individuals working under a welfare special works training program who are to be reported separately in classification 6505; domestic (residential) cleaning or janitorial services which are to be reported separately in classification 6602; and skilled or semiskilled nursing care which is to be reported separately in classification 6110.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-72202, filed 8/28/98, effective 10/1/98.]

WAC 296-17-723 Classification 6601.

6601-00 Detective agencies

Applies to establishments engaged in providing investigative and related services for others. Services include, but are not limited to, investigating corporate embezzlement and fraud, employee theft, insurance fraud, missing person cases, matrimonial or child custody disputes, conducting background checks, tracking and apprehending fugitives, monitoring burglar or fire alarm systems, or provide polygraph testing or fingerprinting services. Investigative methods include checking public records, conducting interviews, surveillance, and undercover operations. As a general rule, the detective agency provides clients with a final report, which includes documentation, photographs, or videotapes.

This classification excludes establishments engaged in providing customer shoplifting surveillance within retail stores which are to be reported separately in classification 6601-01 and surveillance employees hired as direct employees of a nondetective or security agency who are to be reported separately in the classification applicable to the establishment.

6601-01 Merchant police or patrol

Applies to establishments engaged in providing security services to shopping centers, malls, business parks, banks and other businesses. Services include, but are not limited to, monitoring parking lots and garages, maintaining public security in malls, hospitals, and banks, providing surveillance for theft or shoplifting, and monitoring alarm systems.

This classification excludes detective agencies which are to be reported separately in classification 6601-00 and security guard services which are to be reported separately in classification 6601-02.

6601-02 Security guard agencies

Applies to establishments engaged in providing general security guard services for clients such as airports, commercial, industrial, residential and governmental facilities. Services include, but are not limited to, protecting persons or buildings, responding to fire or burglar alarms, protecting and/or transporting executives, providing security at strikes, and conducting electronic sweeps. The clients' security systems may be connected to a central security system of the security guard agency, where employees of the security guard agency monitor the client's systems and notify the appropriate authorities if necessary. As a general rule, security guards, do not have police powers.

This classification excludes security guards at logging sites who are to be reported separately in classification 6601-03 and security guards at construction sites who are to be reported separately in classification 6601-04 provided the conditions in the special exception section of the general rules have been met.

6601-03 Security guards at logging sites

Applies to employees of logging contractors or landowners who are employed as security guards to maintain security at logging sites by preventing, deterring and detecting crime and/or fires. Security guards subject to this classification are limited to employment at the site only during those hours that the employer is not conducting any other operations at the site and may have no other duties during their shift as security guard. This classification also applies to establishments that contract to provide security guards at logging sites.

6601-04 Security guards at construction sites

Applies to employees of construction contractors or landowners who are employed as security guards to maintain security at construction sites by preventing, deterring and detecting crime and/or fires. Security guards subject to this classification are limited to employment at the site only during those hours that the employer is not conducting any other operations at the site and may have no other duties during their shift as security guard. This classification also applies to establishments that contract to provide security guards at construction sites.

6601-05 Armored car services

Applies to establishments engaged in armored car services which transport cash or valuables for businesses such as, but not limited to, banks, supermarkets, and jewelry stores to other destinations. Also included are armored car services which collect or deposit money into or from automatic teller machines.

6601-06 Crowd control services

Applies to establishments engaged in providing crowd control services. Crowd control services is a growing field and may include, but not be limited to, crowd management at sporting events, race tracks, live concerts, rallies, conventions, rodeos, and fairs. This classification includes parking lot staff, and rule enforcement employees such as uniformed or plain clothes security guards who maintain order as well as providing personal protection.

This classification excludes theatre ushers, inside ticket takers, set up crews and stagehands who are to be reported separately in classification 4504.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-723, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-723, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-723, filed 11/27/85, effective

1/1/86; 85-06-026 (Order 85-7), § 296-17-723, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-723, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-723, filed 11/30/77, effective 1/1/78; Order 73-22, § 296-17-723, filed 11/9/73, effective 1/1/74.]

WAC 296-17-724 Classification 6602.

6602-02 Contract window washing services

Applies to establishments engaged in contract window washing services not done in connection with a janitorial service. These establishments specialize in cleaning both interior and exterior windows in residential and commercial, single and multistory buildings.

This classification excludes establishments engaged in residential cleaning which are to be reported separately in classification 6602-04 and establishments engaged in both commercial and residential cleaning which are to be reported separately in classification 6602-03.

6602-03 Janitorial cleaning services, N.O.C.

Applies to establishments engaged in providing general interior cleaning services for commercial businesses or for combined commercial and residential customers. General cleaning services include, but are not limited to, washing, waxing, and polishing floors, vacuuming and shampooing carpets, dusting and washing walls, dusting or cleaning mirrors, cabinets, moldings, lights, hardware, sinks, tubs, commodes, and appliances, and replacing light globes, paper or linen towels. This classification includes window washing when performed by the janitorial service employees in conjunction with a general house cleaning contract, it also includes the cleaning of swimming pools, spas and hot tubs. Fire restoration, which includes cleaning smoke or water damaged buildings, drying and/or cleaning carpets and upholstered furniture, washing and polishing furniture, washing walls, washing and waxing floors, cleaning personal contents of the home or business such as linens, dishes, drapes, and other general cleaning tasks, are included in this classification.

This classification excludes establishments engaged exclusively in contract window washing services which are to be reported separately in classification 6602-02; establishments engaged in residential cleaning which are to be reported separately in classification 6602-04; and establishments that specialize in the cleaning of ceiling tiles which are to be reported separately in classification 0504.

Special note: Care should be exercised with companies specializing in fire restoration or water damage related work. These companies may be general contractors who will not only do the clean up work, but will also do repairs such as, but not limited to, repair or replace cabinets, doors, and fixtures, patch drywall, paint, and replace windows. Construction-related tasks, when performed by a company doing the clean up work, are to be assigned the appropriate construction classification. Each contract should be reviewed to determine the proper classification assignment.

6602-04 Janitorial cleaning services - residential

Applies to establishments engaged in providing general interior janitorial cleaning or services to residential customers. General cleaning services include, but are not limited to, washing, waxing, and polishing floors, vacuuming and shampooing carpets, dusting and washing walls, dusting or cleaning mirrors, cabinets, moldings, lights, hardware, sinks, tubs, commodes, and appliances. This classification includes window cleaning when performed in connection with a general house cleaning contract.

This classification excludes establishments engaged exclusively in contract window cleaning which are to be reported separately in classification 6602-02 and establishments engaged in commercial or combined commercial and residential cleaning which are to be reported separately in 6602-03.

6602-05 Janitors, N.O.C.

Applies to the janitorial staff assigned to clean the clerical and administrative offices of establishments whose principle business undertaking is other than providing janitorial services *and* who are eligible to report their clerical employees in classification 4904. *This classification is applicable only to janitors who clean the office area.* Janitors who clean outside the office area such as a shop, warehouse, or retail store area, are excluded from this classification and are to be reported separately in the classification applicable to the employer's business.

Special note: See the special exception section of the general rules for a complete description of these requirements.

6602-08 Pest control

Applies to establishments engaged in pest control services for others. These establishments offer inspection for, and elimination of, unwanted pests in buildings and other wooden structures. Pests include, but are not limited to, termites, carpenter ants, fleas, ticks, mice, ants, cockroaches, and bees. This classification applies to all operations of elimination services such as, but not limited to, spraying liquid or aerosol pesticide, dusting with powder, setting out traps or bait, applying pesticides to the soil to creating a chemical barrier around the base of a structure, digging trenches around foundations, and drilling holes through masonry surfaces in order to pour or pump chemicals into the infected areas. Establishments may also offer inspection and certification services for customers seeking mortgage approval.

This classification excludes any structural repairs which are to be reported separately in the appropriate construction classification.

6602-10 Portable cleaning and washing, N.O.C.

Applies to establishments engaged in cleaning and washing services not otherwise classified (N.O.C.). This classification contemplates cleaning and washing, by means of portable spray or steam power units, machinery, equipment, automobiles, trucks, recreational vehicles, mobile homes, walk-in freezers, and shopping carts. This classification also applies to the cleaning or removal of snow from roofs, gutters or downspouts of one-story buildings.

This classification excludes establishments engaged in cleaning buildings or structures, cleaning or removing snow from roofs, gutters, and downspouts on multistory buildings, which are to be reported separately in classification 0504.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-724, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-724, filed 5/31/93, effective 7/1/93; 89-24-

051 (Order 89-22), § 296-17-724, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 87-12-032 (Order 87-12), § 296-17-724, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-724, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-724, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-724, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-724, filed 11/29/82, effective 1/1/83; Order 73-22, § 296-17-724, filed 11/9/73, effective 1/1/74.]

WAC 296-17-725 Classification 6603.

6603-00 Auction sales: Industrial or commercial equipment or machinery

Applies to establishments engaged in auction sales of industrial or commercial plant equipment or machinery such as, but not limited to, tractors, farm implements, backhoes, cranes, booms, asphalt pavers, trailers, conveyors, stone crushers, lifts, bulldozers, forklifts, dump trucks, and logging equipment. Auctions are held at the auctioneer's permanent location or at the client's place of business. Work contemplated by this classification includes, but is not limited to, picking up merchandise from clients, advertising, preparing catalog listings of items for auction, preparing the auction site, demonstrating equipment at preauction inspections, estimating values, ensuring that there is title for the goods, numbering and tagging items into lots, conducting the auction, and receiving payment from buyers and paying the consignor. This classification includes clerical office and outside sales personnel, snack bars, concession stands, and lunch counters when operated by employees of the auction company.

This classification excludes establishments engaged as equipment or machinery dealers which are to be reported separately as applicable.

6603-01 Auction or estate sales: Antiques or general household furnishings

Applies to establishments engaged in auction or estate sales of collectibles and antiques or of general household furnishings such as, but not limited to, furniture, pictures, vases, dishes, musical instruments, books, clothing, or lawn and garden furniture, ornaments, tools and equipment. Auctions are held at the auctioneer's permanent location or at the client's location. Work contemplated by this classification includes, but is not limited to, picking up merchandise from clients, advertising, preparing catalog listings of items for auction, preparing the auction site, opening boxes with razor blades and knives, moving merchandise with the use of hand carts, estimating values, ensuring that there is title for the goods, numbering and tagging items into lots, conducting the auction, and receiving payment from buyers and paying the consignor. This classification includes clerical office and outside sales personnel, snack bars, concession stands, and lunch counters when operated by employees of the auction company.

This classification excludes establishments engaged as antique variety stores which are to be reported separately in classification 6304.

6603-02 Auction sales: Specialty merchandise

Applies to establishments engaged in auction sales of specialty merchandise such as, but not limited to, fine art, furs, collectibles, cars and trucks. Auctions are held at the auctioneer's permanent location or at the client's place of business. Depending on the value of items, these types of auctions may operate on a wholesale only basis, or for dealers or qualified buyers only. Work contemplated by this classification includes, but is not limited to, picking up merchandise from clients, advertising, preparing catalog listings of items for auction, preparing the auction site, opening boxes with razor blades and knives, moving merchandise with the use of hand carts, estimating values, ensuring that there is title for the goods, numbering and tagging items into "lots, " conducting the auction, and receiving payment from buyers and paying the consignor. This classification includes clerical office and outside sales personnel, snack bars, concession stands, and lunch counters when operated by employees of the auction company.

This classification excludes establishments engaged as stores or dealers which are to be reported separately as applicable.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-725, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-725, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-725, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-725, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-725, filed 11/9/73, effective 1/1/74.]

WAC 296-17-726 Classification 6604.

6604-00 Lens: Manufacturing, grinding and polishing

Applies to establishments engaged in the manufacture of precision lenses for their own sales, or for other retailers such as optometrists and opticians. Glass and plastic blanks (or roughs), emery, polishing rouge are received from others. Blanks are heated, placed in molds, formed, annealed (tempered), and ground to curvature, size, gauge and thickness on grinding machines. Using precision lathes with diamond cutting tools, lenses are centered, trimmed, and beveled, then buffed, washed, and inspected. This classification also applies to the manufacture of contact lenses and artificial eyes which are usually molded from acrylics, and/or cut and polished. This classification includes clerical office and sales personnel.

This classification excludes optical dispensary stores that do no lens grinding which are to be reported separately in classification 6308 and establishments engaged in the manufacture of glass which are to be reported separately in classification 3503.

6604-01 Optical goods: Manufacturing, N.O.C.

Applies to establishments engaged in the manufacture of optical goods not covered by another classification (N.O.C.), such as, but not limited to, eye glasses, opera glasses, field glasses, goggles and telescopes. Glass and plastic blanks (or roughs), emery, polishing rouge, steel, silver and gold wire rod or tube, sheet plastic and metal are received from others. Blanks are heated, placed in molds, formed, annealed (tempered), and ground to curvature, size, gauge and thickness on grinding machines. Using precision lathes with diamond cutting tools, lenses are centered, trimmed, and beveled, then buffed, washed, and inspected. Assembly is completed by mounting the lenses into frames. This classification includes the shaping of the frames from raw materials or products may be assembled from component parts received from others.

This classification includes clerical office and sales personnel.

This classification excludes optical dispensary stores that do no lens grinding which are to be reported separately in classification 6308; establishments engaged in the precision grinding of lenses or the grinding of blank lenses to curvature and size or the manufacture of contact lenses or artificial eyes, which are to be reported separately in classification 6604-00; and establishments engaged in the manufacture of glass which is to be reported separately in classification 3503.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-726, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-726, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-726, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-726, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-726, filed 11/9/73, effective 1/1/74.]

WAC 296-17-727 Classification 6605.

6605-00 Actors and performers, N.O.C.

Applies to establishments or individuals providing performances that are not of a physical or strenuous nature, and who are not specifically covered by another classification (N.O.C.). For purposes of this classification, entertainment that is not physical or strenuous includes, but is not limited to, comedians, magicians or clowns at parties, or nightclubs. Physical or strenuous activities which are not covered by this classification include, but are not limited to, ballet, dancing, skating, gymnastics, or performing stunts.

This classification excludes actors, players, performers, entertainers, or musicians whose routines or performances are of a physical or strenuous nature who are to be reported separately in classification 6620; players, entertainers or musicians N.O.C., hired by theatres, who perform nonstrenuous routines or performances who are to be reported separately in classification 6605-03; musicians performing nonstrenuous routines or performances at dance halls who are to be reported separately in classification 6605-04; musicians, N.O.C. performing nonstrenuous routines or performances who are to be reported separately in classification 6605-01; entertainers engaged in television or radio company operations who are to be reported separately in classification 4502; and entertainers engaged in motion picture production company operations who are to be reported separately in classification 6608.

Special note: Classifications 6620 and 6605 may be assigned to a single establishment provided the establishment maintains accurate records which distinguishes actors and performers whose routines are of a physical and strenuous nature, from the routines which are not physical or strenuous. Care should be exercised when assigning this classification as the actors and performers may be exempt from coverage as specified in RCW 51.12.020(9).

6605-01 Musicians, N.O.C.

Applies to establishments or individuals engaged as musicians whose entertainment is not of a physical or strenuous nature, and who are not specifically covered by another classification (N.O.C.). For purposes of this classification, entertainment that is not physical or strenuous includes disk jockeys or members of a musical band playing at nightclubs, concerts, or other events, as well as members of the entertainer's road crew who set up or disassemble musical equipment or sound systems. Physical or strenuous activities which are not covered by this classification include, but are not limited to, ballet, dancing, skating, gymnastics or performing stunts.

This classification excludes actors, players, performers, entertainers or musicians whose routines or performances are of a physical or strenuous nature who are to be reported separately in classification 6620; players, entertainers or musicians hired by theatres performing nonstrenuous routines or performances who are to be reported separately in classification 6605-03; actors or performers performing nonstrenuous routines or performances who are to be reported separately in classification 6605-00; musicians performing nonstrenuous routines or performances at dance halls who are to be reported separately in classification 6605-04; entertainers engaged in television or radio company operations who are to be reported separately in classification 4502 and entertainers engaged in motion picture production company operations who are to be reported separately in classification 6608.

Special note: Classifications 6620 and 6605 may be assigned to a single establishment provided the establishment maintains accurate records which distinguishes musicians whose routines are of a physical and strenuous nature, from the routines which are not physical or strenuous. Care should be exercised when assigning this classification as the musician may be exempt from coverage as specified in RCW 51.12.020(9).

6605-03 Players, entertainers and musicians hired by a theatre, N.O.C.

Applies to establishments or individuals engaged as players, entertainers, and musicians who are hired by theatres to provide entertainment of a nonphysical or strenuous nature, and who are not covered by another classification (N.O.C.). For purposes of this classification, entertainment that is not physical or strenuous includes players, entertainers, and musicians in theatrical productions such as plays, programs, or operas. Physical or strenuous activities which are not covered by this classification include, but are not limited to, ballet, dancing, skating, gymnastics, or performing stunts.

This classification excludes actors, players, performers, entertainers or musicians whose routines or performances are of a physical or strenuous nature who are to be reported separately in classification 6620; actors and performers performing non strenuous routines or performances who are to be reported separately in classification 6605-00; musicians, N.O.C. performing nonstrenuous routines or performances who are to be reported separately in classification 6605-01; entertainers engaged in television or radio company operations who are to be reported separately in classification 4502; and entertainers engaged in motion picture production company operations who are to be reported separately in classification 6608.

Special note: Classifications 6620 and 6605 may be assigned to a single establishment provided the establishment maintains accurate records which distinguishes players, entertainers and musicians whose routines are of a physical and strenuous nature, from the routines which are not physical or strenuous. Care should be exercised when assigning

this classification as the players, entertainers and musician hired by a theatre may be exempt from coverage as specified in RCW 51.12.020(9).

6605-04 Dance halls, N.O.C.

Applies to establishments engaged in operating dance halls that are not covered by another classification (N.O.C.). Establishments contemplated by this classification may provide only the dance hall facility, or may also provide disc jockey services or live musicians, singers, and/or dancers. Some charge a cover charge; some will allow customers to bring their own beverages and/or snacks. This classification applies to all employees including, but not limited to, bouncers, security personnel, attendants, and food and beverage servers.

This classification excludes entertainers or musicians whose routines or performances are of a physical or strenuous nature who are to be reported separately in classification 6620; and lounges or restaurants that provide entertainment for customers which are to be reported separately in classification 3905.

Special note: Care should be exercised when assigning this classification as the entertainers or musicians may be exempt from coverage as specified in RCW 51.12.020(9).

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-727, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-727, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020. 94-24-007, § 296-17-727, filed 11/28/94, effective 1/1/95. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-727, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-727, filed 2/28/85, effective 4/1/85; Order 77-27, § 296-17-727, filed 11/30/77, effective 1/1/78; Order 74-40, § 296-17-727, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-727, filed 11/9/73, effective 1/1/74.]

WAC 296-17-729 Classification 6607.

6607-00 Card rooms; bingo parlors or casinos

Applies to establishments engaged in operating card rooms, bingo parlors, or casinos. To qualify for this classification, card rooms must be run as a separate operation when located in a tavern or Class H restaurant. If the food and beverage service is provided by the tavern or restaurant for the convenience of the card room operation, then the waiters/waitresses are to be reported separately in the appropriate tavern or restaurant classification. This classification includes employments such as, but not limited to, dealers, security floor managers, janitorial and maintenance staff, and food and beverage operations. Bingo parlors and casinos are usually operated by Native American tribal organizations or by nonprofit organizations to raise funds for charity. This classification applies to any workers these organizations employ to operate bingo or casino games. Typical employments include, but are not limited to, game attendants and helpers, money collectors, callers, card dealers, janitorial and maintenance staff, and food and beverage operations.

Special note: Coverage for Native American tribes conducting a bingo operation is subject to jurisdictional policy.

6607-01 Billiard or pool halls

Applies to establishments engaged in operating billiard or pool halls. This classification *could* apply to the operation of a billiard or pool hall in connection with another enterprise, such as a bowling alley or skating rink, but *only* if it is conducted as a separate and distinct operation. This classification includes, but is not limited to, counter personnel who collect money for the rental of billiard and pool equipment, rackers, food and beverage operations, and janitorial and maintenance staff.

This classification excludes clerical office and outside sales personnel who may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met; billiard or pool tables that are provided as part of a bowling center, tavern, or restaurant operation which are to be reported separately in the applicable classification.

6607-02 Recreational, social or community centers, N.O.C.

Applies to establishments engaged in operating recreational, social or community centers not covered by another classification (N.O.C.) such as, but not limited to, senior centers, community centers for minors, and adult social establishments. These organizations may target a particular age or cultural group. Organizations may provide educational workshops, social interaction, drug prevention programs, crafts and limited physical recreational activities. This classification includes food or beverage operations provided by the center. Organizations in classification 6607 do not require membership fees as opposed to clubs in classification 6205 that charge a fee for membership.

This classification excludes YMCA's and boy/girls clubs which are to be reported separately in classification 6203; health clubs and gymnasiums which are to be reported separately in classification 6204; clubs, N.O.C. such as fraternal organizations which are to be reported separately in classification 6205, and municipal community centers which are to be reported separately in the applicable classification.

6607-03 Indoor playgrounds

Applies to establishments that provide indoor entertainment centers for children. Generally these operations include a playground area consisting of interconnecting tubes, ladders, slides, ball bins, roller slides, and water and/or air beds. The equipment is typically made of plastic, rubber, and/or plexi-glass. Video games may also be available on the premises but generally they are maintained by the game vendor. Typical duties of the employees include, but are not limited to, selling tickets, supervising the playground area, facilitating parties, snack bar operations and light cleaning such as dusting the tubes, vacuuming and cleaning the snack area. The more involved janitorial duties are usually contracted out to a private janitorial firm. Included in this classification is child day care service whereby parents can leave children at the playground for a specific period of time. This service usually places limitations on the time a child may be left at the center.

This classification excludes child day care services not part of an indoor playground operations which are to be reported separately in classifications 6103 and 6104; amusement parks, permanently located kiddie rides, and establishments which provide adult or family sports entertainment, which may include batting cages and miniature golf, which are to be reported separately in classification 6208; and establishments engaged in providing gymnastic training to chil-

dren which are to be reported separately in classification 6204.

Special note: Normally establishments in this classification do not employ workers who are engaged exclusively in clerical office or sales. However, separate classifications could be assigned provided all the conditions of the general reporting rules covering standard exception employees have been met.

6607-04 Indoor simulated golfing

Applies to establishments engaged in providing computer simulated indoor golf facilities to the public. The operation consists of separate cubicles which house a computer simulated screen and a play area. Customers select a particular course from a list of available courses which are generally exact replicas of famous courses throughout the world. The player hits a golf ball against a canvas screen inside the cubicle; a computer measures the speed and direction of the ball and simulates the shot so the player can view the results on the screen. Facilities may provide a small putting area, a snack area with limited seating, and/or the sale of golf shirts and memorabilia. Typical duties of the workers include monitoring facilities, setting up computers and collecting the admission price, selling memorabilia, food and beverage operations, and light janitorial work.

This classification excludes miniature golf courses and driving ranges which are reported separately in classification 6208.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-729, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-729, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-729, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-729, filed 11/9/73, effective 1/1/74.]

WAC 296-17-730 Classification 6608.

6608-00 Motion picture production

Applies to establishments engaged in the production of motion pictures. Elaborate sets are often constructed at the production sites and filmed with cameras mounted on large booms. This classification includes all employment such as, but not limited to, staff who design and construct the sets, actors and entertainers, stunt personnel, camera and lighting personnel, musicians, writers, costume designers, make-up artists, film editing, directors, producers, sales personnel, and clerical office employees.

This classification excludes video taping or production work conducted in a studio or on location for a television broadcasting company which is to be reported separately in classification 4502.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-730, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-730, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-730, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-730, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-730, filed 11/9/73, effective 1/1/74.]

WAC 296-17-73105 Classification 6614.

6614-00 Parimutuel horse racing: All other employees, N.O.C. - major tracks

(to be assigned only by the horse racing underwriter)

Applies to licensed employees of licensed horse trainers and/or horse owners who conduct business at a major parimutuel horse racing track. These tracks are currently Yakima Meadows in Yakima, Playfair in Spokane and Emerald Downs in Auburn. This classification applies to on and off track employees such as assistant trainers, pony riders and exercise riders. Jockeys are considered exercise riders when employed by a trainer and/or owner at a time other than during a scheduled race meet. The dates of a race meet are set for each track by the Washington horse racing commission. Coverage provided in this classification is funded by premiums collected at the time of licensing. Trainers premiums are collected on a per license basis.

This classification excludes licensed grooms working at major tracks who are to be reported separately in classification 6615; unlicensed employees who work only on a farm or ranch who are to be reported separately in classification 7302; and assistant trainers, pony riders and exercise riders working at a fair or bush track who are to be reported separately in classification 6616.

Special note: All employees working at a major track must be licensed by the Washington state horse racing commission.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73105, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-73105, filed 7/20/89, effective 8/20/89.]

WAC 296-17-73106 Classification 6615.

6615-00 Parimutuel horse racing: Grooms - major tracks

(to be assigned only by the horse racing underwriter)

Applies to licensed grooms performing services for licensed horse trainers who conduct business at a major parimutuel horse racing track. The major tracks are currently Yakima Meadows in Yakima, Playfair in Spokane and Emerald Downs in Auburn. This classification includes all on or off track duties of a licensed groom such as, but not limited to, cleaning or mucking horses stalls, feeding, and bathing the horses. For workers' compensation purposes, a groom is considered to be an employee of the trainer who provided the required signature on the grooms application for a license. Coverage provided in this classification is funded by the premiums collected from the trainer at the time of licensing.

This classification excludes licensed grooms working at a fair or bush track who are to be reported separately in classification 6617.

Special note: All employees working at a major track must be licensed by the Washington state horse racing commission.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73106, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-73106, filed 7/20/89, effective 8/20/89.]

WAC 296-17-73107 Classification 6616.

6616-00 Parimutuel horse racing: All other employees, N.O.C. - fair meets or bush tracks

(to be assigned only by the horse racing underwriter)

Applies to licensed employees of licensed horse trainers and/or horse owners who conduct business at a fair meet or bush track. This classification applies to on or off track

employees such as assistant trainers, pony riders, and exercise riders. Jockeys will be considered exercise riders when employed by a trainer and/or owner at a time other than during a scheduled race meet. The dates of a race meet are set for each track by the Washington state horse racing commission. Coverage provided in this classification is funded by premiums collected at the time of licensing. Trainer premiums are collected on a per license basis.

This classification excludes assistant trainers, pony riders and exercise riders working at a major track who are to be reported separately in classification 6614; grooms working at a major track who are to be reported separately in classification 6615 and grooms working at a fair or bush track who are to be reported separately in classification 6617.

Special note: All employees working at a fair or bush track must be licensed by the Washington state horse racing commission.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73107, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-73107, filed 7/20/89, effective 8/20/89.]

WAC 296-17-73108 Classification 6617.

6617-00 Parimutuel horse racing: Grooms - fair meets or bush tracks

(to be assigned only by the horse racing underwriter)

Applies to licensed grooms performing services for licensed horse trainers who conduct business at a fair meet or bush track. This classification includes all on or off track duties of a licensed groom such as, but not limited to, cleaning or mucking horse stalls, feeding, and bathing the horses. For workers' compensation purposes, a groom is considered to be an employee of the trainer who provided the required signature on the grooms application for a license. Coverage provided in this classification is funded by the premiums collected from the trainer at the time of licensing.

This classification excludes grooms working at a major track who are to be reported separately in classification 6615; assistant trainers, pony riders and exercise riders working at major tracks who are to be reported separately in classification 6614; and assistant trainers, pony riders and exercise riders working at fair meets or bush tracks who are to be reported separately in classification 6616.

Special note: All employees working at a fair meet or bush track must be licensed by the Washington state horse racing commission.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73108, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-73108, filed 7/20/89, effective 8/20/89.]

WAC 296-17-73109 Classification 6618.

6618-00 Parimutel horse racing: Special horse racing account *(used only by horse racing underwriter)*

This classification is *not* to be assigned to any account; *no* claims are to be charged to it. This classification is *solely* for the collection of fees assessed on horse owner licenses. The horse racing commission collects the fees from horse owners and deposits the money into the special horse racing account to help fund workers' compensation coverage for injured workers. (Payment of this fee is mandatory, but does not extend coverage to owners. Owners may apply for individual coverage.) The owners' fees are based on the percentage of a horse or horses they own, up to a maximum of $150.00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73109, filed 8/28/98, effective 10/1/98.]

WAC 296-17-73111 Classification 6620.

6620-00 Entertainers, N.O.C.

Applies to establishments or individuals providing entertainment of a strenuous nature for a fee, donation or free of charge. For classification purposes, strenuous entertainment includes activities such as, but not limited to, ballet, dancing, skating, gymnastics, or performing stunts.

This classification excludes actors, players, performers, entertainers, or musicians whose routines or performances are not of a physical or strenuous nature who are to be reported separately in classification 6605.

Special note: Classifications 6620 and 6605 may be assigned to a single establishment provided the establishment maintains accurate records which distinguishes entertainers whose routines are of a physical and strenuous nature, from the routines which are not physical or strenuous. Care should be exercised when assigning this classification as the entertainers may be exempt from coverage as specified in RCW 51.12.020(9).

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-73111, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020. 94-24-007, § 296-17-73111, filed 11/28/94, effective 1/1/95.]

WAC 296-17-735 Classification 6704.

6704-00 Parking lot operations

Applies to establishments engaged in operating parking lots for the temporary parking of customer vehicles in uncovered spaces. Work contemplated by this classification includes, but is not limited to, checking customers in and out, collecting fees, parking customers vehicles at check-in and returning them to customer upon check-out, patrolling and monitoring the area for security purposes, and providing shuttle service in connection with parking lot operations. Parking lot operations subject to this classification do not provide service to the automobiles.

This classification excludes parking/storage garages which are to be reported separately in classification 3406.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-735, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-735, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-735, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-735, filed 11/9/73, effective 1/1/74.]

WAC 296-17-736 Classification 6705.

6705-00 Ski facilities

Applies to establishments engaged in operating facilities for all types of skiing such as downhill or cross country. Work contemplated by this classification includes, but is not limited to, parking attendants, operation of artificial snow making machines, ski tows and lifts, ski patrols, ski instruction, conducting excursions, trail grooming, and snow compacting when performed by employees of an employer sub-

ject to this classification. This classification also applies to establishments that operate facilities for other similar recreational activities such as snow tubing, windboard sailing, and snowmobiling.

This classification excludes ski rental and sales operations which are to be reported separately in classification 6309; overnight lodging facilities which are to be reported separately in classification 4905; food and beverage services which are to be reported separately in classification 3905; ski instructors who are to be reported separately in classification 6705-04 and ticket sales and collection personnel who work exclusively in an office environment or ticket sales booth and have no other duties in or about the employer's premises who may be reported separately in classification 4904.

6705-03 Excursions - outdoor recreational, N.O.C.

Applies to establishments engaged in providing outdoor recreational excursions and guide services that are not covered by another classification (N.O.C.). Outdoor excursions include, but are not limited to, fishing, hunting, hiking, horseback riding, backpacking, mountain climbing, camping, river rides, white water rafting, and teaching survival skills. Employees of employers subject to this classification will routinely include course instructors and guides who conduct excursions. Work contemplated by this classification may include, but not be limited to, accompanying customers on excursions, teaching first aid, survival skills, hygiene, navigation and other courses in connection with outdoor activities, and maintaining equipment.

This classification excludes snow skiing excursions or wind board sailing instruction which are to be reported separately in classification 6705-04.

6705-04 Ski instructors

Applies to establishments who are engaged in providing instruction only in snow/water skiing, surf boarding, sailing and wind sail boarding. Work contemplated by this classification includes, but is not limited to, providing appropriate equipment (skis, snowboards, canoes, etc.) maintaining the equipment, and teaching the technique. This classification excludes establishments that provide the full scope of ski resort services, with or without ski instructors, which are to be reported separately in classification 6705-00 subject to all appropriate exclusions, and the operation of any other full service resort or campground, with or without instructors, which is to be reported separately as applicable.

6705-05 Ski patrols

Applies to establishments engaged in providing *ski patrolling services only*. Work contemplated by this classification includes, but is not limited to, routine surveillance of a ski facility to ensure safe conditions and sufficient snow cover, encouraging safe use of the facility by patrons, and conducting search and rescue for lost or injured skiers either by contract with a ski resort or on an on-call basis in an emergency. This classification excludes establishments that provide the full scope of ski resort services, with or without a ski patrol, which are to be reported separately in classification 6705-00.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-736, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-736, filed 5/31/88, effective 7/1/88; 87-24-060 (Order 87-26), § 296-17-736, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-736, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-736, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-736, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-736, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-736, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-736, filed 11/13/80, effective 1/1/81; Order 77-27, § 296-17-736, filed 11/30/77, effective 1/1/78; Order 74-40, § 296-17-736, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-736, filed 11/9/73, effective 1/1/74.]

WAC 296-17-737 Classification 6706.

6706-01 Athletic teams: Care of teams and equipment, operation of premises

Applies to employees of athletic teams who are engaged in the care of the team, its equipment, playing field/stadium/arena, and the operation of the premises it owns/leases to house their organization. Work contemplated by this classification includes, but is not limited to, trainers, laundry workers, janitors, stadium lighting and sound, ushers, security, parking attendants, and maintenance of a clubhouse/locker room and grounds when performed by employees of an employer subject to this classification.

This classification excludes players, coaches, managers, referees, and umpires who are to be reported separately in classifications 6707, 6809, or 7102 as applicable; management and maintenance of the stadium/arena by an owner or contractor which is to be reported separately in classification 4910; and ticket sales and ticket takers who work exclusively in an office environment, ticket sales booth or entrances and have no other duties in or about the employer's premises who may be reported separately in classification 4904.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-737, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-737, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-737, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-737, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-737, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-737, filed 11/9/73, effective 1/1/74.]

WAC 296-17-738 Classification 6707.

6707-00 Football teams, N.O.C.
Contact sports, N.O.C.

Applies to players, coaches, referees, and managers employed by a professional football team that is *not a member of the National Football League (NFL)* and professional wrestlers, roller derbies, and professional marital arts competitors and their managers, coaches and referees.

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the playing field/stadium and care of the facility in which the team organization is housed who are to be reported separately in classification 6706, and officials of community or school amateur sporting events are to be reported separately in classification 6103.

Special note: Teams that are members of the NFL, including players, coaches, referees, and managers, are to be reported separately in classification 7102.

6707-01 Hockey teams

Applies to players, coaches, referees, and managers employed by a professional hockey team.

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the

arena/stadium, and care of the facility in which the team organization is housed who are to be reported separately in classification 6706 and officials of community or school amateur sporting events are to be reported separately in classification 6103.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-738, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-738, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-738, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-738, filed 11/30/79, effective 1/1/80; Order 74-40, § 296-17-738, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-738, filed 11/9/73, effective 1/1/74.]

WAC 296-17-739 Classification 6708.

6708-01 Jockeys

Applies to jockeys riding horses in a race, or working with the horses in any way, during the dates of a scheduled race meet. Coverage during a race meet is through election of optional coverage and is to be reported at ten hours per mount per race or ten hours per day if not riding in a race. Coverage outside the dates of a race meet is mandatory. Jockeys will be considered exercise riders when employed by a trainer and/or owner at a time other than during the dates of a scheduled race meet and are then reportable in classification 6614, 6616, or 7302 as appropriate to their job duties.

6708-02 Professional motor vehicle or watercraft race drivers

Applies to professional motor vehicle/water craft race drivers during a competition. Coverage during a competition is mandatory and is subject to a division of hours as provided in the general exclusion section of the general reporting rules.

When not driving during competition, hours worked are reportable as appropriate to the work being performed; maintenance of a racing motor vehicle and/or pit crew operations which is to be reported separately in classification 3411; assembly of a racing motor vehicle which is to be reported separately in classification 3402; maintenance of a racing water craft and/or pit crew operations which is to be reported separately in classification 3414; assembly of a racing water craft which is to be reported separately in classification 2903, 3404 or 3511 as appropriate; and any other work usually done for this employer which is to be reported separately as appropriate to the employees usual job duties.

This classification excludes piloting an aircraft in a race which is to be reported separately in classification 6803 for a plane or 6801 for a hot air balloon.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-739, filed 8/28/98, effective 10/1/98; 87-24-060 (Order 87-26), § 296-17-739, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-739, filed 11/27/85, effective 1/1/86; Order 77-10, § 296-17-739, filed 5/31/77; Order 74-40, § 296-17-739, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-739, filed 11/9/73, effective 1/1/74.]

WAC 296-17-740 Classification 6709.

6709-00 Sheltered workshops

Applies to persons who are disabled, and to developmentally disabled persons who are enrolled as employees of sheltered workshops. Classification 6709-00 applies regardless of the type of work performed. This classification also applies to *all* staff who operate sheltered workshops, even if the sheltered workshop also operates a work activity center, and to *all* staff who operate work activity centers.

This classification excludes persons who are most severely disabled, and to developmentally disabled persons enrolled in work activity centers who are to be reported separately in classification 7309.

Special note: Sheltered workshops may also operate a work activity center at the same location or at a separate site.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-740, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-740, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-740, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-740, filed 11/30/83, effective 1/1/84; Order 73-22, § 296-17-740, filed 11/9/73, effective 1/1/74.]

WAC 296-17-741 Classification 6801.

6801-00 Scheduled airlines - flight crews

Applies to members of flight crews employed by establishments operating scheduled airlines. A scheduled airline will have published fares, definite dates, routes, and times for plane departures and arrivals. Flight crews include, but are not limited to, pilots, co-pilots, navigators and flight attendants.

This classification excludes ground crew operations and ticket sellers who handle baggage who are to be reported separately in classification 6802 and clerical, information, reservation clerks and ticket sellers with no other duties who may be reported separately in classification 4904.

6801-01 Hot air balloon - flight crew

Applies to members of flight crews employed by establishments operating hot air balloon rides.

This classification excludes ground crew operations which are to be reported separately in classification 6802.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-741, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-741, filed 5/31/96, effective 7/1/96; 87-24-060 (Order 87-26), § 296-17-741, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-741, filed 11/27/85, effective 1/1/86; Order 73-22, § 296-17-741, filed 11/9/73, effective 1/1/74.]

WAC 296-17-742 Classification 6802.

6802-00 Airlines, scheduled - ground crew operations

Applies to all ground crew employees of establishments operating scheduled airlines. A scheduled airline will have published fares, definite dates, routes, and times for plane departures and arrivals. Ground crew operations include, but are not limited to, all baggage handlers, ticket sellers who handle baggage and maintenance of the aircraft.

This classification excludes members of the flight crew who are to be reported separately in classification 6801 and ticket sellers, information and reservation clerks and clerical personnel with no other duties who may be reported separately in classification 4904.

6802-01 Hot air balloon - ground crew operations

Applies to ground crew operations of establishments operating hot air balloon rides. Duties include but are not limited to preparing the balloon for flight, hooking the gondola to the balloon and handling the tether lines.

This classification excludes members of the flying crew who are to be reported separately in classification 6801.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-742, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-742, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-742, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-742, filed 2/28/85, effective 4/1/85; Order 73-22, § 296-17-742, filed 11/9/73, effective 1/1/74.]

WAC 296-17-743 Classification 6803.

6803-01 Flight instruction

Applies to flight instructors employed by establishments who provide flight instruction services. This classification applies only to the pilot operating or overseeing the aircraft during the flight lesson.

This classification excludes classroom flight instruction which is to be reported separately in classification 6103 and ground crew operations which are to be reported separately in classification 6804.

6803-02 Private aircraft - transportation of personnel in connection with the employer's business

Applies to members of a flight crew who operate private aircraft owned by a business and used for the transportation of company personnel in connection with the company's business. Aircraft operation is subject to the general exclusion section of the general rules which allows all other hours worked by these same personnel to be reported separately in the applicable classification.

This classification excludes ground crew operations which are to be reported separately in classification 6804.

6803-04 Aircraft operations, N.O.C. and nonscheduled airlines - flight crews

Applies to members of the flight crew for aircraft operations not covered by another classification (N.O.C.) and flight crews employed by an employer operating a nonscheduled airline. Nonscheduled airlines, such as a charter service, do not have definite dates, routes, and times for departures and arrivals but make their services available to the public as needed. Operations not covered by another classification could include, but not be limited to, an aircraft used for skywriting/advertising, helicopter-assisted hoisting of large or heavy objects in connection with construction projects and helicopter-assisted removal of logs from a logging side.

This classification excludes ground crew operations which are to be reported separately in classification 6804; establishments engaged in aerial spraying, seeding, crop dusting, and fire fighting which are to be reported separately in classification 6903; ground crews of a helicopter logging operation which are to be reported separately in classification 5001; and clerical and ticket sellers with no other duties which may be reported separately in classification 4904.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-743, filed 8/28/98, effective 10/1/98; 87-24-060 (Order 87-26), § 296-17-743, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-743, filed 11/27/85, effective 1/1/86; Order 76-36, § 296-17-743, filed 11/30/76; Order 73-22, § 296-17-743, filed 11/9/73, effective 1/1/74.]

WAC 296-17-744 Classification 6804.

6804-00 Airport operations

Applies to establishments engaged in operating airports. This classification includes work such as, but not limited to, control tower operations, information clerks located at the airport, baggage handlers who load/unload planes, maintenance and janitorial personnel, porters (skycaps), security personnel, fuel attendants and fire department personnel.

This classification excludes clerical personnel and ticket sellers with no other duties who may be reported separately in classification 4904.

6804-01 Aircraft ground crew operations, N.O.C.

Applies to ground crew operations of employers with aircraft operations not covered by another classification (N.O.C.). This classification includes work such as, but not limited to, baggage/cargo handlers, mechanics, fuel handlers, and ticket sellers who also handle baggage.

This classification excludes all members of the flying crew who are to be reported separately in classification 6803 and clerical and ticket sellers with no other duties who may be reported separately in classification 4904.

6804-02 Aircraft companies, sales or service agencies - including aircraft sales personnel

Applies to establishments engaged as aircraft sales, rental or service agencies. This classification includes work such as, but not limited to, aircraft mechanical work, fueling aircraft, repair of electronic equipment in the airplane and personnel engaged in the sales/rental of aircraft including the routine preparation and maintenance.

This classification excludes in-flight demonstration of aircraft which is to be reported separately in classification 6803.

6804-03 Airlines, nonscheduled - ground crew operations

Applies to all ground crew employees of establishments operating nonscheduled airlines. Ground crew operations include, but are not limited to, all baggage handlers, ticket sellers who handle baggage and maintenance of the aircraft.

This classification excludes members of the flight crew who are to be reported separately in classification 6803 and clerical and ticket sellers with no other duties who may be reported separately in classification 4904.

6804-04 Aircraft: Remanufacture, rebuild, modification, conversion, or repair

Applies to establishments engaged in remanufacturing, rebuilding, modifying, converting or repairing aircraft, such as airplanes and helicopters, but that are not the original manufacture of the aircraft. These types of businesses are usually located adjacent to airports. Remanufacturing or rebuilding usually consists of taking a plane apart and replacing parts such as, but not limited to, exterior sheet metal, the frame, engines, windshields, landing gears and remodeling the inside of the aircraft. Modifying or converting an aircraft includes, but is not limited to, installation of conversion kits which convert an aircraft from gas power to turbine power, installation of larger fuel tanks to increase the range of the aircraft, and installation of more efficient engines. This classification includes the fabrication of component parts when performed by an employer subject to this classification, and the assembly of aircraft kits for a customer.

This classification excludes establishments engaged in the original manufacture of the aircraft and establishments engaged in the manufacture of aircraft component parts which are to be reported separately in the applicable classifi-

cation, and all flight testing of the aircraft which is to be reported separately in classification 6803.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-744, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-744, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-744, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-744, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-744, filed 11/24/75, effective 1/1/76; 73-22, § 296-17-744, filed 11/9/73, effective 1/1/74.]

WAC 296-17-745 Classification 6809.

6809-00 Baseball teams - professional

Applies to players, umpires, coaches, and managers employed by a professional baseball team.

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the playing field/stadium, and care of the facility in which the team organization is housed who are to be reported separately in classification 6706 and officials of community or school amateur sporting events who are to be reported separately in classification 6103.

6809-01 Basketball teams - professional

Applies to players, coaches, managers, and referees employed by a professional basketball team.

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the arena/stadium, and care of the facility in which the team organization is housed who are to be reported separately in classification 6706 and officials of community or school amateur sporting events who are to be reported separately in classification 6103.

6809-02 Soccer teams - professional Noncontact sports, N.O.C.

Applies to players, coaches, managers, and referees employed by a professional soccer team or noncontact sports teams that are not covered by another classification (N.O.C.).

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the playing fields/stadium, and care of the facility in which the team organization is housed who are to be reported separately in classification 6706 and officials of community or school amateur sporting events who are to be reported separately in classification 6103.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-745, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-745, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-745, filed 11/30/83, effective 1/1/84; Order 77-10, § 296-17-745, filed 5/31/77; Order 74-40, § 296-17-745, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-745, filed 11/9/73, effective 1/1/74.]

WAC 296-17-746 Classification 6901.

6901-00 Volunteers

Applies to the medical aid coverage for volunteers of state agencies, municipal corporations, political subdivisions, or private nonprofit charitable organizations. Medical aid coverage is *mandatory* for volunteers of state agencies. Medical aid coverage is *optional* for volunteers of city, county, town, special district, municipal corporations, political subdivisions, or nonprofit charitable organizations.

This classification excludes student volunteers of private sector employers who are to be reported separately in classification 6901-01; volunteer law enforcement officers of cities, towns, counties and taxing districts for whom medical aid only coverage has been elected who are to be reported separately in classification 6906; and volunteer law enforcement officers of cities, towns, counties, or Native American tribal councils for whom full coverage has been elected who are to be reported separately in classification 6905.

Special note: To elect coverage for volunteers, employers or charitable organizations must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. State Fund workers' compensation is not provided to volunteer firemen covered by chapter 41.24 RCW and emergency services workers covered by chapter 38.52 RCW.

6901-01 Student volunteers

Applies to the medical aid coverage for student volunteers. Medical aid coverage is *optional* for student volunteers. A student volunteer is defined as a student who is enrolled in a public school (kindergarten level through grade 12), is participating as a volunteer in a program authorized or sponsored by the public school to provide work-based learning experiences, and who receives no wages for their volunteer services. Maintenance and reimbursement for actual expenses incurred in performing assigned duties are not considered wages.

This classification excludes volunteer workers for state agencies, local government agencies and private nonprofit charitable organizations who are to be reported separately in classification 6901-00; volunteer law enforcement officers of cities, towns, counties and taxing districts for whom medical aid only coverage has been elected who are to be reported separately in classification 6906; and volunteer law enforcement officers of cities, towns, counties, or Native American tribal councils for whom full coverage has been elected who are to be reported separately in classification 6905.

Special note: To elect coverage for student volunteers, employers or charitable organizations must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. State Fund workers' compensation is not provided to volunteer firemen covered by chapter 41.24 RCW and emergency services workers covered by chapter 38.52 RCW.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-746, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-746, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-746, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-746, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-746, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-746, filed 12/1/77; Order 75-28, § 296-17-746, filed 8/29/75, effective 10/1/75.]

WAC 296-17-747 Classification 6902.

6902-02 Logging road: Construction or maintenance

Applies to the construction or maintenance of logging roads. For purposes of this classification logging roads are roads for which the basic use is to provide access into a timber or forest area and for the transporting of logs out of the area by truck. This classification includes roads constructed on public or private land in connection with timber sales or

logging, such as roads being constructed in accordance with the State Department of Natural Resources or the United States Forest Service timber sales. Logging roads contemplated by this classification are typically cleared and graded with a bulldozer and then paved with gravel, crushed rock, or large stones. Logging roads are generally engineered to support the weight of logging equipment and trucks but not necessarily to handle speeds and volume of nonlogging traffic. As a rule, these roads are not surfaced with asphalt or paved with concrete. Classification 6902 includes log road maintenance which is limited to keeping the road bed in good repair such as regrading and fill to repair washouts and ruts.

This classification excludes the felling of timber, bucking and delimbing of all trees in the proposed roadway or adjacent shoulder and all other logging activities which are to be reported separately in classification 5001; all excavation, land clearing or grading as a part of roadway construction not in connection with a logging road which is to be reported separately in classification 0101; construction of asphalt roads which is to be reported separately in classification 0210; construction of concrete roads which is to be reported separately in classification 0214; mechanical roadside brushing or machine application of chemicals which is to be reported separately in classification 5006; and permanent shop or yard operations which are to be reported separately in classification 5206 provided the conditions of WAC 296-17-675 have been met.

6902-03 Logging railroad: Construction or maintenance

Applies to the construction or maintenance of logging railroads. For purposes of this classification logging railroads are side tracks and spurs which feed into existing railroad main lines. Log trucks haul logs from the cutting site to the logging railroad where they are loaded onto the logging railroad cars and transported to the main line. This classification includes railroads constructed on public or private land in connection with timber sales or logging, such as roads being constructed in accordance with the State Department of Natural Resources or the United States Forest Service timber sales. The construction includes clearing and grading with use of a bulldozer; laying dirt, rock and ballast; laying ties and track; and installing crossover frogs, switches, switch stands, switch mechanisms and crossing planks as needed. This classification also includes log railroad maintenance which is limited to keeping the railroad line operational.

This classification excludes the falling of timber, bucking and delimbing of all trees in the proposed roadway or adjacent shoulder, and all other logging activities which are to be reported separately in classification 5001; the construction of railroad lines not in connection with a logging railroad which is to be reported separately in classification 0101; construction of logging roads which is to be reported separately in classification 6902-02; and maintenance and storage of equipment and material at a permanent yard or shop which is to be reported separately in classification 5206 provided the conditions of WAC 296-17-675 have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-747, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-747, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-747, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-747, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-747, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-747, filed 11/30/83, effective 1/1/84; Order 75-38, § 296-17-747, filed 11/24/75, effective 1/1/76.]

WAC 296-17-748 Classification 6903.

6903-00 Aerial spraying, seeding, crop dusting, or fire fighting

Applies to the flying crew of establishments engaged in aerial spraying, seeding, crop dusting, and fire fighting, which involves the low altitude release of agricultural chemicals, seeds, water, or fire retardant compound.

This classification excludes aircraft ground crew operations which are to be reported separately in classification 6804.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-748, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-748, filed 11/27/85, effective 1/1/86; Order 76-36, § 296-17-748, filed 11/30/76.]

WAC 296-17-749 Classification 6904.

6904-00 Salaried fire fighters of cities or towns

Applies to salaried fire fighters of cities and towns. Fire fighters respond to fire alarms and other emergencies, control and extinguish fires, protect lives and property, and maintain fire fighting equipment, administer first aid and artificial respiration to injured persons and those overcome by fire and smoke. They may inspect buildings for fire hazards and compliance with fire prevention ordinances and may issue citations to building owners listing the fire regulation violations to be corrected. This classification includes paramedics employed by fire departments.

See classifications 0803, 1301, 1404, 1501, 6901, 6905, and 6906 for other city or town operations.

Special note: State Fund workers' compensation is not provided to volunteer firemen covered by chapter 41.24 RCW and emergency services workers covered by chapter 38.52 RCW.

6904-01 Salaried fire fighters of counties and taxing districts

Applies to salaried fire fighters of counties and taxing districts. Fire fighters respond to fire alarms and other emergencies, control and extinguish fires, protect lives and property, and maintain fire fighting equipment, administer first aid and artificial respiration to injured persons and those overcome by fire and smoke. They may inspect buildings for fire hazards and compliance with fire prevention ordinances and may issue citations to building owners listing the fire regulation violations to be corrected. This classification includes paramedics employed by fire departments.

See classifications 1301, 1404, 1501, 6901, 6905, and 6906 for other city or town operations.

Special note: State Fund workers' compensation is not provided to volunteer firemen covered by chapter 41.24 RCW and emergency services workers covered by chapter 38.52 RCW.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-749, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-749, filed 11/27/85, effective 1/1/86; Order 77-27, § 296-17-749, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-749, filed 12/1/77.]

WAC 296-17-750 Classification 6905.

6905-00 Salaried law enforcement officers of cities and towns; Volunteer law enforcement officers, N.O.C.: Full coverage

Applies to salaried law enforcement officers of cities and towns and to volunteer law enforcement officers of cities and towns who are not otherwise classified (N.O.C.) for whom full coverage is *elected.* Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes volunteer law enforcement officers for whom the city or town has elected medical aid benefits only who are to be reported separately in classification 6906.

See classifications 0803, 1301, 1404, 1501, 5305, 6901, and 6904, and for other city or town operations.

Special note: This coverage is *optional* for volunteer law enforcement officers. To elect this coverage, the city or town must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all volunteer law enforcement officers must be included.

6905-01 Salaried law enforcement officers of counties and taxing districts; Volunteer law enforcement officers, N.O.C.: Full coverage

Applies to salaried law enforcement officers of counties and taxing districts and to volunteer law enforcement officers of counties and taxing districts who are not otherwise classified (N.O.C.) for whom full coverage is *elected.* Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes volunteer law enforcement officers for whom the county or taxing district has elected medical aid benefits only who are to be reported separately in classification 6906.

See classifications 1301, 1404, 1501, 5305, 6901 and 6904, and for other city or town operations.

Special note: This coverage is *optional* for volunteer law enforcement officers. To elect this coverage, the county or taxing district must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all volunteer law enforcement officers must be included.

6905-02 Salaried law enforcement officers of Native American tribal councils;
Volunteer law enforcement officers, N.O.C.: Full coverage

Applies to salaried law enforcement officers of Native American tribal councils and to volunteer law enforcement officers of Native American tribal councils who are not otherwise classified (N.O.C.) for whom full coverage is *elected.* Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes volunteer law enforcement officers for whom the Native American tribal council has elected medical aid benefits only who are to be reported separately in classification 6906.

Special note: This coverage is *optional* for volunteer law enforcement officers. To elect this coverage, the Native American tribal council must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all volunteer law enforcement officers must be included.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-750, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-750, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-750, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-750, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-750, filed 12/1/77.]

WAC 296-17-751 Classification 6906.

6906-00 Volunteer law enforcement officers of cities and towns - medical aid only

Applies to medical aid coverage for volunteer law enforcement officers of cities and towns for whom the cities or towns have elected coverage. Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes salaried law enforcement officers and volunteer law enforcement officers for whom the cities or towns have elected full coverage who are to be reported separately in classification 6905.

See classifications 0803, 1301, 1404, 5305, 6901, 6904, and 6905 for other city or town operations.

Special note: This coverage is optional for volunteer law enforcement officers. To elect coverage for volunteer law enforcement officers, the city or town must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all law enforcement officers must be included.

6906-01 Volunteer law enforcement officers of counties, taxing districts and Native American tribal councils - medical aid only

Applies to medical aid coverage for volunteer law enforcement officers of counties, taxing districts and Native American tribal councils for whom the counties, taxing districts or Native American tribal councils have elected coverage. Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing

crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes salaried law enforcement officers and volunteer law enforcement officers for whom the counties, taxing districts or Native American tribal councils have elected full coverage, who are to be reported separately in classification 6905. See classifications 1301, 1404, 1501, 5306, 6901, 6904, and 6905 for other county or taxing district operations.

Special note: This coverage is optional for volunteer law enforcement officers. To elect coverage for volunteer law enforcement officers, the counties, taxing districts or Native American tribal councils must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all law enforcement officers must be included.

6906-02 Volunteer law enforcement officers of state agencies - medical aid only

Applies to medical aid coverage for volunteer law enforcement officers of state agencies for whom the state agencies have elected coverage. Duties of law enforcement officers include, but are not limited to, directing traffic, patrolling by motor vehicle, motorcycle, bicycle, or on foot or horseback, preventing crimes, investigating disturbances of the peace, arresting violators, conducting criminal investigations, giving first aid, and guarding persons detained at the police station.

This classification excludes salaried law enforcement officers and volunteer law enforcement officers for whom the state agencies have elected full coverage who are to be reported separately in classification 7103.

See classifications 4902, 4906, 5307, 7103, and 7201 for other state government operations.

Special note: This coverage is optional for volunteer law enforcement officers. To elect coverage for volunteer law enforcement officers, the state agencies must submit a completed Application for Optional Coverage to the department. Conditions of coverage are outlined on the application. If coverage is provided, all law enforcement officers must be included.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-751, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-751, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-751, filed 11/30/83, effective 1/1/84; Order 77-27, § 296-17-751, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-751, filed 12/1/77.]

WAC 296-17-752 Classification 6907.

6907-01 Household furnishings moving and storage

Applies to establishments engaged in interstate and/or intrastate moving and/or storage of household furnishings. Work contemplated by this classification includes packing and unpacking, loading and unloading of household goods, transportation from one residence to another, and temporary storage of household goods in a warehouse. This classification includes the moving van drivers, packing personnel, laborers who assist in the loading and unloading operations, warehouse employees and truck mechanics.

This classification excludes intrastate and/or interstate delivery of nonhousehold furnishings which are to be reported separately in either classification 1101 or 1102, as applicable, and nonhousehold furnishing warehouses, which are to be reported separately in the appropriate warehouse classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-752, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-752, filed 11/27/85, effective 1/1/86; Order 77-27, § 296-17-752, filed 11/30/77, effective 1/1/78.]

WAC 296-17-753 Classification 6908.

6908-02 Lightweight paper products, N.O.C.: Manufacturing

Applies to establishments engaged in the manufacture of lightweight paper products not otherwise classified (N.O.C.), such as, but not limited to, carbon paper, crepe paper, blue print paper, computer paper, calculation tape, note pad, file folder, envelope, stationery, and typewriter ribbon. Materials include, but are not limited to, file folder or stationery-weight paper, glue, string, clasps, coating liquids and ink. Machinery includes, but is not limited to, sheeters, slitters, die cutters or other cutting equipment, printing presses, folding, punching and drilling machines, glue applicators, trimmers, winders/rewinders, embossers, packaging machinery, balers, shredders and forklifts.

This classification excludes establishments engaged in the manufacture of paper, which are to be reported separately in classification 2401.

Special note: This classification includes establishments engaged as "paper rewinders or paper converters." These businesses purchase large rolls of premanufactured paper from outside sources, then cut, rewind, or "remanufacture" them into smaller or narrower rolls. They sometimes refer to themselves as "paper wholesalers, " but they are performing more "manufacturing" work than what is allowed in classification 6407 for wholesale stores. The machinery used for this type of cutting and rewinding is the same as that used by manufacturers of the types of goods mentioned above, who also cut, wind and rewind paper from large rolls onto smaller rolls.

6908-03 Paper bag, movers packing pads, and wallpaper: Manufacturing

Applies to establishments engaged in the manufacture of paper products such as, but not limited to, paper bags of all sizes, movers packing pads, wrapping paper and wallpaper. Raw materials include, but are not limited to, paper, glue, string, ink, foam or bubble plastic, plastic wrap and tape. Machinery includes, but is not limited to, bag making machines, slitters, die cutters or other cutting machinery, perforating or embossing machines, glue applicators, printing presses, winders/rewinders, packaging machines, shredders, balers, forklifts and sewing machines which are used to sew tape across the tops of bags that package bulk goods.

This classification excludes establishments engaged in the manufacture of paper, pulp or wood fiber, corrugated boxes or other heavy-grade paper products, or corrugating, laminating, oiling or coating paper, which are to be reported separately in classification 2401; establishments engaged in

the manufacture of plastic bags which are to be reported separately in classification 3510 and establishments engaged in the manufacture of abrasive cloth or paper (emery cloth/sandpaper) and textile bags or sacks, which are to be reported separately in classifications 3708 or 3802 as applicable.

6908-05 Paper box - noncorrugated: Manufacturing

Applies to establishments engaged in the manufacture of boxes, or partitions for boxes, from lightweight, noncorrugated cardboard. Boxes contemplated by classification package goods such as, but not limited to, clothing or other soft goods, prepared foods, wine, cigars, stationery and games. Materials include, but are not limited to, cardboard (chipboard), glue, staples, tape, resins, ink and plastic film. Machinery includes, but is not limited to, box-making machines, sheeters, slitters, slotters, winders and rewinders, printing presses, cutting machines, laminators, bundlers, unitizers, balers, shredders and forklifts.

This classification excludes establishments engaged in the manufacture of paper, pulp or wood fiber, corrugated boxes or other heavy-grade paper products, or corrugating, laminating, oiling or coating paper, which are to be reported separately in classification 2401.

6908-06 Single or double-ply paper products: Manufacturing

Applies to establishments engaged in the manufacture of single or double-ply paper products such as, but not limited to, surgical gowns, towels, napkins, table or shelf covers, florist papers, tissue and shredded or crimped packing material. Some of the items made in this classification are primarily hand-made. Raw materials include, but are not limited to, single or double-ply paper, tape, glue, plastic or cellophane lining. Machinery includes, but is not limited to, winders and rewinders, folding machines, cutting tables, paper-crimping machinery, gluing machines and forklifts.

This classification excludes establishments engaged in the manufacture of paper, which are to be reported separately in classification 2401.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-753, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-753, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 91-12-014, § 296-17-753, filed 5/31/91, effective 7/1/91. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-753, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-753, filed 2/28/85, effective 4/1/85. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-753, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-17-753, filed 11/30/77, effective 1/1/78.]

WAC 296-17-75301 Classification 6909.

6909-00 Laboratories - analytical, testing, or quality control for others

Applies to establishments engaged in operating laboratories which provide analytical, testing, and quality control services. This classification includes laboratories that experiment and provide a variety of tests and analysis for other customers' products and/or materials. Generally, the employees include chemists, engineers and other scientists and research aides who use a variety of chemicals and sophisticated scientific equipment and machinery for the testing and analysis process. This classification includes the quality control inspection of fish and agricultural products. Work may be performed at the laboratory or at the customer's location.

This classification excludes outside X-raying and drilling which is to be reported separately in the classification applicable to the X-raying or drilling being performed.

Special note: This classification does not apply to establishments that operate a laboratory in connection with testing or inspecting their own products/materials, which is to be included in the basic classification applicable to the business. For example, a laboratory to test and analyze the assembled fly rod or the composition of the graphite rod when operated by a fly rod manufacturer, is included within classification 3510.

6909-02 Laboratories: Medical

Applies to establishments engaged in operating medical laboratories. Services include, but are not limited to, providing data on which to base decisions concerning the detection, diagnosis and treatment of disease and to evaluate a patient's response to treatment. Laboratory personnel perform analytical tests on the tissues and fluids of the human body, detect parasites, bacteria, viruses, drugs, and poisons; and interpret cell and tissue abnormalities. This classification includes employment-related drug testing for others.

Special note: This classification does not apply to establishments that operate a laboratory in connection with testing or analyzing services, which is to be included in the basic classification applicable to the business. For example, a hospital which also operates a laboratory as part of their medical facility to provide an analysis of patient tests and samples is included within classification 6105.

6909-03 Blood banks

Applies to establishments engaged in operating blood banks. Generally, these types of facilities allow individuals to come in and donate, save, or sell their blood for a fee. Medical and laboratory personnel perform routine laboratory tasks including extracting blood from individuals, testing and analyzing blood, processing whole blood and blood components, and storing blood in refrigerated storage rooms. This classification also includes services offered by bloodmobiles.

Special note: This classification does not apply to establishments that operate a laboratory in connection with testing or analyzing services which is to be included in the basic classification applicable to the business. For example, a hospital which also operates a laboratory as part of their medical facility to provide an analysis of patient tests and samples is included within classification 6105.

6909-22 Laboratories: Assaying

Applies to establishments engaged in operating assaying laboratories which examine, test, and analyze the quantitative or qualitative substance of material such as a metal, ore or drug. This classification includes a variety of laboratories who experiment and provide tests and analysis of products and/or materials including specialty laboratories such as, but not limited to, chemical, drugs, food products, rock formation and minerals, fossils and bones, and soil and toxic materials. Generally, the employees include chemists, engineers, and other scientists and research aides who use a variety of chem-

ical and sophisticated equipment and machinery for the testing and analysis process.

Special note: This classification does not apply to establishments that operate a laboratory in connection with testing or inspecting their own products/materials which is to be assigned to the basic classification applicable to the business. For example, a mining operation which also operates a laboratory to determine the composition of rock and minerals excavated from the mine is included as part of the mining classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-75301, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-75301, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-75301, filed 11/27/78, effective 1/1/79.]

WAC 296-17-75303 Classification 7002.

7002-00 Department of Energy contract

Applies to establishments that have contracted with the department of energy at DOE's nuclear facilities within the state of Washington to operate, construct or service the nuclear site. At present, the only site covered by this contract is at Richland. These contractors can be identified by the assignment of account number 000, 100-xx with each contractor given a separate subaccount. The coverage provided by this classification is usually for the possibility of workers being exposed to nuclear radiation although the coverage applies to any type of on-the-job injury. Benefits for injured workers covered under this contract are paid from a special fund which DOE pays into to cover all industrial insurance and medical aid payments made to or in behalf of the injured workers and/or their beneficiaries. The premium paid by the contractors to labor and industries is limited to the supplemental pension premium assessment.

Special note: This classification is used to administer the DOE contract and collect supplemental pension fund premiums.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-75303, filed 8/28/98, effective 10/1/98.]

WAC 296-17-754 Classification 7101.

7101-00 Corporate officers, N.O.C.

Applies to executive officers of a corporation who are not covered by another classification (N.O.C.) and who have elected optional coverage. To qualify for this classification, a corporate officer must own stock in the corporation, be elected and empowered in accordance with the articles or bylaws of incorporation, serve on the board of directors, and perform *only* administrative, clerical or outside sales duties. Any officer who performs any duties directly related to the operational activities of the corporation must be reported in the basic classification applicable to the work being performed. Typical titles of executive officers include chairman, president, vice president, secretary and treasurer.

Special note: Under no circumstances will classification 4904 be assigned to an executive officer. Any officer engaged exclusively in outside sales is to be reported separately in classification 6303. Executive officers are exempt from mandatory coverage if the conditions of RCW 51.12.020(8) have been met; however, they may elect optional coverage.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-754, filed 8/28/98, effective 10/1/98; 87-24-060 (Order 87-26), § 296-17-754, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-754, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-754, filed 11/27/78, effective 1/1/79.]

WAC 296-17-755 Classification 7102.

7102-00 Football teams - NFL

Applies to players, referees, coaches and managers employed by a professional football team that is *a member of the National Football League (NFL).*

This classification excludes employees engaged in caring for the team and equipment, the care and operation of the playing field/stadium, and care of the facility in which the team organization is housed who are to be reported separately in classification 6706; officials of community or school amateur sporting events who are to be reported separately in classification 6103; and professional football teams that are not members of the NFL which are to be reported separately in classification 6707.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-755, filed 8/28/98, effective 10/1/98; 87-24-060 (Order 87-26), § 296-17-755, filed 12/1/87, effective 1/1/88; 85-24-032 (Order 85-33), § 296-17-755, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-755, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-755, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-755, filed 11/30/79, effective 1/1/80.]

WAC 296-17-756 Classification 7103.

7103-00 State government - law enforcement officers, N.O.C.

Applies to any state employees, including administrative employees, who have law enforcement powers such as, but not limited to, authority to arrest or to preserve order, and who are not covered by another classification (N.O.C.). State agencies assigned this classification include, but are not limited to, department of agriculture, department of natural resources, utility and transportation commission, Washington state gambling commission, Washington state liquor control board, and the Washington state parks and recreation commission.

This classification excludes any state employees N.O.C. who do not have law enforcement powers who are to be reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7201 for other state government operations.

7103-01 State government - law enforcement officers - state patrol

Applies to employees of the Washington state patrol, including administrative employees, who have law enforcement powers such as, but not limited to, authority to arrest or to preserve order.

This classification excludes any state patrol employees who do not have law enforcement powers who are to be

reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7201 for other state government operations.

7103-03 State government - law enforcement officers - guards or correctional officers

Applies to employees of the department of corrections, including administrative employees, who have law enforcement powers such as, but not limited to, authority to arrest or to preserve order.

This classification excludes any department of corrections employees who do not have law enforcement powers who are to be reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7201 for other state government operations.

7103-05 State government - law enforcement officers - lottery officers

Applies to employees of the lottery commission, including administrative employees, who have law enforcement powers such as, but not limited to, authority to arrest or to preserve order.

This classification excludes any lottery commission employees who do not have law enforcement powers who are to be reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7201 for other state government operations.

7103-06 State government - law enforcement officers - fish and wildlife officers

Applies to employees of the department of fish and wildlife, including administrative employees, who have law enforcement powers such as, but not limited to, authority to arrest or to preserve order.

This classification excludes any department of fish and wildlife employees who do not have law enforcement powers who are to be reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7201 for other state government operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-756, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-756, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-756, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-756, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-756, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-756, filed 11/30/79, effective 1/1/80.]

WAC 296-17-757 Classification 7104.

7104-01 Temporary help company: Administrative offices

Applies only to employees such as, but not limited to, clerical office or sales personnel of the temporary help company who work in the administrative or branch offices of a temporary help company. This classification also applies to an employment agency's administrative office when conducted in connection with a temporary help company operation.

This classification excludes employees of a temporary help company who are assigned to a customer's administrative or clerical office who are to be reported separately in classification 7105.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-757, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-757, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-757, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-757, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-757, filed 11/30/79, effective 1/1/80.]

WAC 296-17-758 Classification 7105.

7105-01 Temporary help company: Office support services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged wholly in office work for such customers. This classification includes occupations such as, but not limited to, clerks, typists, receptionists, secretaries, accountants, actuaries, attorneys, bank tellers, bookkeepers, word processors, data entry and computer operators, programmers, drafters, designers, graphic artists, technical writers, technical illustrators, design engineers, library assistants, telemarketers, dispatchers, prepress work for printers, collating by hand such as in a bindery, and mail clerks who do not operate equipment. Employees subject to this classification are not required to be physically located in a clerical office. The test is whether they perform clerical office work as described in this classification. A division of worker hours is not permitted between this classification and any other classification.

This classification excludes mail clerks who operate equipment who are to be reported separately in classification 7109-01

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-758, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-758, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-758, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-758, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-758, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-758, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-758, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-758, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-758, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-758, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-758, filed 11/30/79, effective 1/1/80.]

WAC 296-17-759 Classification 7106.

7106-01 Temporary help company: Retail or wholesale store services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in activities related to a store operation as opposed to a warehouse or repackaging operation. Activities may include a combination of clerical type duties and those that require minimal physical lifting. This classification includes occupations such as, but not limited to, cashiers, stockers, beauticians, gift wrappers, buyers, product demonstrators, booth aids, models, outside sales persons, and inventory takers. For the purposes of this classification, taking

inventory is limited to those services provided to store operations which are performed exclusively at ground level.

This classification excludes employees who take inventory with the use of ladders, step stools to reach any height, or when the inventory is performed for customers not engaged in store operations, who are to be reported separately in classification 7114-00 provided they do not operate equipment or machinery.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-759, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-759, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-759, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-759, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-759, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-759, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-759, filed 11/29/82, effective 1/1/83; 80-17-016 (Order 80-23), § 296-17-759, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-759, filed 11/30/79, effective 1/1/80.]

WAC 296-17-760 Classification 7107.

7107-01 Temporary help company: Bakery, restaurant, or food sundry preparation services, musicians or entertainers

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in activities such as, but not limited to, baking, cooking, food preparation, waiting and busing tables, and dishwashing. This classification also applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged as musicians or entertainers.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-760, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-760, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-760, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-760, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-760, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-760, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-760, filed 11/29/82, effective 1/1/83; 80-17-016 (Order 80-23), § 296-17-760, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-760, filed 11/30/79, effective 1/1/80.]

WAC 296-17-761 Classification 7108.

7108-01 Temporary help company: Packaging and repackaging of dry goods, retail products, and pharmaceuticals as part of the distribution and preshipping process

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in warehousing or repackaging dry goods such as, but not limited to, clothing, fabric, yarn, shoes, glassware, linens, kitchenware, china, books, drugs, computer discs, bulk film, cassette tapes, records, and pharmaceutical preparations.

This classification excludes any assembly or freight handling of wood, metal, plastic, or masonry products which are to be reported separately in classification 7114 provided they do not operate equipment or machinery.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-761, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-761, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-761, filed 5/31/88, effective 7/1/88; 87-12-032 (Order 87-12), § 296-17-761, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-761, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-761, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-761, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-761, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-761, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-761, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-761, filed 11/30/79, effective 1/1/80.]

WAC 296-17-762 Classification 7109.

7109-01 Temporary help company: Electronic, precision, and scientific equipment assembly; nonfield technician services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in the assembly of electronic or biomedical equipment or printing and bindery work. This classification includes, but is not limited to, occupations such as electronic assemblers, electro-mechanical assemblers, quality control inspectors, test technicians, kit pullers, storekeepers, upholsterers, laboratory technicians, printers, offset operators, lead typesetters, mail clerks who operate equipment, and bindery workers.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-762, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-762, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-762, filed 5/31/88, effective 7/1/88; 85-24-032 (Order 85-33), § 296-17-762, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-762, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-762, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-762, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-762, filed 11/30/79, effective 1/1/80.]

WAC 296-17-76201 Classification 7110.

7110-00 Temporary help company: Field engineer and field technician services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in duties away from the customers' premises and who are providing field engineering, field technician services, traffic counters, and surveying services, telephone installation and service within buildings, vending machine service, and to parking lot or garage attendants, weigh scale attendants, and service station attendants (other than mechanics).

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76201, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-76201, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-76201, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76202 Classification 7111.

7111-00 Temporary help company: Health care, medical laboratory, quality control services, testing laboratories, N.O.C.; homemaker services and home health services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who

are providing health care services. This classification includes employments such as, but not limited to, therapists, nurses, nurses aides, physicians, dental hygienists, laboratory technicians, and assistants who work at a health care facility or at the home of the patient.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76202, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-76202, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-76202, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76203 Classification 7112.

7112-00 Temporary help company: Agricultural services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in any aspects of agricultural operations such as field crops, livestock, stables, dairies, nurseries, and greenhouses. This classification contemplates the operation of power driven farm machinery or equipment.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76203, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76203, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76204 Classification 7113.

7113-00 Temporary help company: Janitorial, plant or facility supplemental maintenance and grounds keeping services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in janitorial work, building preoccupancy cleanup, plant or facility maintenance, and/or grounds maintenance work on an existing landscape. Grounds keeping work contemplated by this classification means, but is not limited to, mowing lawns, pruning shrubs, and weeding, as compared to new landscape construction work. This classification includes landscape workers involved exclusively in hand labor work such as raking, digging, using a wheelbarrow to haul soil, beauty bark or decorative rock, whether performed as maintenance of existing landscape or new landscape work.

This classification excludes employees engaged in cleaning exterior windows, cleaning and removing debris or building material, and construction of new landscapes such as, but not limited to, clearing of land, installation of underground sprinkler systems, moving boulders, who are to be reported separately in classification 7118 and employees engaged in removing trees who are to be reported separately in classification 7121. A division of worker hours is not permitted between this classification and any other classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76204, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-76204, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-76204, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76205 Classification 7114.

7114-00 Temporary help company: Assembly work and freight handling, N.O.C.; inventory takers, N.O.C.

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in the assembly of wood, metal, plastic, or masonry products during shipping or receiving; and handling freight such as tires, furniture, and other products made of wood, metal, plastic, or masonry products during shipping or receiving. Employees assigned this classification could use small power driven hand tools to assemble goods and nonpowered pallet jacks or hand trucks for handling freight. This classification also applies to employees of a temporary help company who are assigned on a temporary basis to its customers who are engaged in taking inventory and who are not covered by another classification (N.O.C.).

This classification excludes employees who operate power driven equipment or machinery to perform assembly work or freight handling activities who are to be reported separately, without division of hours, in classification 7117.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76205, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-76205, filed 5/31/93, effective 7/1/93. Statutory Authority: RCW 51.16.035. 88-12-050 (Order 88-06), § 296-17-76205, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76206 Classification 7115.

7115-00 Temporary help company: Cannery or food processing services

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in cannery or food processing operations such as, but not limited to, canning, freezing, or dehydrating, or in packing fresh fruits or vegetables. Cooking or otherwise preparing food prior to processing or packing is included in this classification.

This classification excludes employees engaged in operating or maintaining plant or cannery equipment or machinery who are to be reported separately in classification 7117.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76206, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76206, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76207 Classification 7116.

7116-00 Temporary help company: Flagging services by specialty contractor: Flagging for public utility line construction

This classification applies to specialty (nonconstruction) contractors that are providing flagging services on public utility, power, water, or gas line construction projects. This classification also applies to employees of a temporary help company who are assigned on a temporary basis to a public utility company to provide flagging services during the construction or extension of overhead or underground power, water, or gas lines.

This classification excludes employees of construction contractors who perform flagging duties who are to be reported separately in the classification applicable to the construction work the construction contractor is performing.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76207, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-76207, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-76207, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76208 Classification 7117.

7117-00 Temporary help company: Machine operators; skilled craft persons - plant or shop operations, N.O.C.; specialty trades

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who operate power driven equipment or machinery such as, but not limited to, forklifts, table saws, drill presses, industrial packaging and processing equipment or machinery, or who are assigned to work in the customer's plant or shop. This classification also applies to skilled craftpersons such as machinists, mechanics, welders, tool and die makers, carpenters, cabinet makers, and to employees of a temporary help company who work in the specialty trades of plumbing, electrical wiring, or sheet metal work. Businesses or industries contemplated by this classification include, but are not limited to, cabinet shops, lumber remanufacturers, canneries, amusement parks, sign painting shops, printing shops, and laundries, but does not apply to shake or shingle mills.

This classification excludes employees of a temporary help company who work at construction sites performing duties other than those of specialty trades who are to be reported separately, without a division of hours, in classification 7118; employees of a temporary help company who are assigned to work in maritime trades subject to Washington workers' compensation laws who are to be reported separately in classification 7120; and employees of a temporary help company who are assigned to do plant maintenance work in a customer's plant who are to be reported separately in classification 7113.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76208, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76208, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76209 Classification 7118.

7118-00 Temporary help company: Flagging services by specialty contractor, N.O.C.; construction

Applies to specialty nonconstruction contractors that are providing flagging services which are not covered in classification 7116. This classification also applies to employees of a temporary help company assigned on a temporary basis to its customers and who are engaged in any aspect of construction work such as, but not limited to, road, new landscape, underground or overhead utility lines, fence, metal erection, signs or lighting, including the operation of equipment, machinery, and tools by those employees, and to security personnel and flaggers who are not covered by another classification, (N.O.C.).

This classification excludes employees of construction contractors who perform flagging duties who are to be reported separately in the classification applicable to the construction work the construction contractor is performing and employees of a temporary help company who are working in the specialty trades of plumbing, electrical wiring, or sheet metal work who are to be reported separately in classification 7117.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76209, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-76209, filed 5/31/96, effective 7/1/96; 88-12-050 (Order 88-06), § 296-17-76209, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76210 Classification 7119.

7119-00 Temporary help company: Commercial vehicle operations, N.O.C.; sawmill operations

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in commercial vehicle operations such as, but not limited to, driving truck for a moving or storage company, driving garbage collection trucks, driving pilot cars, driving delivery vehicles or driving taxis. This classification also applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in any aspect of sawmill work such as, but not limited to, operating machinery, grading lumber, or sorting and stacking lumber.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76210, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76210, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76211 Classification 7120.

7120-00 Temporary help company: Hazardous waste handling; maritime employments

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in hazardous waste handling. This classification also applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in maritime employments subject to Washington workers' compensation laws, including diving or subaqueous work.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76211, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76211, filed 5/31/88, effective 7/1/88.]

WAC 296-17-76212 Classification 7121.

7121-00 Temporary help company: Logging, shake or shingle mills; aircraft flight crew members

Applies to employees of a temporary help company who are assigned on a temporary basis to its customers and who are engaged in any phase of logging or aircraft operations or who are assigned to work in any lumbering mill, including equipment or machinery operators related to industries subject to this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-76212, filed 8/28/98, effective 10/1/98; 88-12-050 (Order 88-06), § 296-17-76212, filed 5/31/88, effective 7/1/88.]

WAC 296-17-763 Classification 7201.

7201-00 State government - patient or health care personnel

Applies to state employees who provide any type of patient or health care at state-operated facilities or at health care facilities in state schools or correctional institutions. Type of employment contemplated by this classification includes, but is not limited to, traveling nurses, therapists, and physicians.

This classification excludes any state employees who do not provide patient or health care who are to be reported separately in the classification applicable to work performed.

See classifications 4902, 4906, 5307, and 7103 for other state government operations.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-763, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-763, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-763, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-763, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-763, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-763, filed 11/30/79, effective 1/1/80.]

WAC 296-17-764 Classification 7202.

7202-00 Real estate agencies

Applies to establishments engaged in buying, selling, renting, and appraising real estate for others. A real estate agent will study property listings, accompany clients to the property site to show the property, and draw up real estate contracts such as deeds, leases, and mortgages. They will also hold open houses, conduct negotiations, and assist at the closing. This classification includes clerical office and sales personnel.

This classification excludes building and/or property management services which are to be reported separately in classification 4910.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-764, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-764, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-764, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-764, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-764, filed 11/30/79, effective 1/1/80.]

WAC 296-17-765 Classification 7203.

7203-00 Community service workers

Applies to individuals who are sentenced to perform community service work for a state agency, county, city, town or nonprofit organization as the result of a court order. The "workers" perform various services for benefit of the agency or organization. These services may range from clerical office or counseling duties to maintenance or construction work. The type of work performed has no bearing on the assignment of this classification. The workers are not compensated for their work; instead, they are allowed to perform these services in lieu of imprisonment.

Special note: This classification is assigned only if the agency or organization for whom the service is being provided elects to cover their community service workers (RCW 51.12.045).

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-765, filed 8/28/98, effective 10/1/98; 87-12-032 (Order 87-12), § 296-17-765, filed 5/29/87, effective 7/1/87; 85-24-032 (Order 85-33), § 296-17-765, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.020(1). 84-12-048 (Order 84-12), § 296-17-765, filed 6/1/84. Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-765, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-765, filed 11/30/81, effective 1/1/82.]

WAC 296-17-766 Classification 7204.

7204-00 Preferred workers

Applies to "preferred workers" as certified by the department of labor and industries. Preferred workers are workers who, because of a work-related injury or occupational disease, are unable to return to work with the same employer or, because of substantial impairment, unable to return to the same type of work. Before this classification can be assigned to an employer's account, the department must receive a completed "intent to hire" form from that employer within sixty days from the first date of employment. A worker may be certified as a preferred worker for a period of thirty-six months. A qualified employer who hires a preferred worker will receive up to thirty-six months of premium relief provided the preferred worker is in their employment during the same period of time. The only cost to the preferred worker and the employer will be the supplemental pension premium. If an injured worker sustains an injury within three years of the hiring date, all claims will be paid by the department through the second injury fund with no costs to the employer. The type of work performed by the preferred worker has no bearing on the assignment of this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-766, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-766, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-766, filed 11/30/83, effective 1/1/84; 81-24-042 (Order 81-30), § 296-17-766, filed 11/30/81, effective 1/1/82.]

WAC 296-17-772 Classification 7301.

7301-00 Farms: Dairy

Applies to establishments engaged in the raising of dairy cattle for the purpose of milk production. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, tending and feeding animals, raising crops for feed, erecting or mending fences, breeding animals, milking animals, transporting animals to or from market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also covers artificial insemination and veterinary care when performed by employees of an employer subject to this classification.

This classification excludes contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as cleaning stalls or barns, weeding or planting crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-772, filed 8/28/98, effective 10/1/98; 85-24-032 (Order 85-33), § 296-17-772, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-772, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-772, filed 11/29/82, effective 1/1/83.]

WAC 296-17-773 Classification 7302.

7302-00 Farms: Livestock
Animal stud service

Applies to establishments engaged in the raising of cattle, pigs, and horses for sale to others. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, tending and feeding animals, raising crops for feed, erecting or mending fences, breeding animals, transporting animals to or from market, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also covers artificial insemination and veterinary care when performed by employees of an employer subject to this classification. This classification also applies to establishments that provide animal stud services for others.

This classification excludes contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as cleaning stalls, grooming or caring for animals, weeding or planting crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

7302-02 Riding academies

Applies to establishments engaged as riding academies which offer services such as, but not limited to, instruction on riding horses or on the care of animals and the rental of horses. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, tending and feeding animals, training animals, cleaning stalls and barn areas, raising crops for feed, erecting or mending fences, breeding animals, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also covers artificial insemination and veterinary care when performed by employees of an employer subject to this classification.

This classification excludes contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as cleaning stalls, grooming or caring for animals, weeding or planting crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

7302-03 Boarding and/or training stables for pleasure or show horses

Applies to establishments that board and/or train pleasure or show horses for others. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, tending and feeding animals, cleaning stalls and barn areas, training animals, raising crops for feed, erecting or mending fences, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification.

This classification excludes contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as cleaning stalls, grooming or caring for animals, weeding or planting crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

7302-04 Centers or trainers for race horses - unlicensed by WHRC

Applies to establishments or individuals who train race horses for others, but who are not licensed as trainers or training centers by the Washington horse racing commission. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, tending and feeding animals, cleaning stalls and barn areas, training animals, raising crops for feed, erecting or mending fences, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification.

This classification excludes individuals or centers that train nonrace horses which are to be reported separately in classification 7302-03; contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301; and contractors hired by a farm operator to build or repair fences or structures

who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as cleaning stalls, grooming or caring for animals, weeding or planting crops, irrigating and fertilizing. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

7302-05 Parimutuel horse racing: Licensed employments, N.O.C.

Applies to employments licensed by the Washington horse racing commission who are not mandatorily covered under Washington workers' compensation insurance laws and are not covered by another classification. This classification is *only* for individuals such as, but not limited to, horse owners, trainers, farriers, and veterinarians, who hold specialty licenses issued by the commission. These individuals are generally owners of a business such as that of a farrier or training services. The business entity could be a proprietorship, partnership, joint venture, or corporation and may or may not have employees. The qualifying factor for this classification is that these individuals are licensed by the horse racing commission, are *not* mandatorily covered under Washington workers' compensation insurance laws, and are *not* included or covered by another classification. For example, a veterinarian who operates a veterinary clinic away from a race track and treats various animals such as dogs, cats, cows, and horses would report owner coverage *(if elected)* in classification 6107, not in classification 7302.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-773, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-773, filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-773, filed 5/31/88; 85-24-032 (Order 85-33), § 296-17-773, filed 11/27/85, effective 1/1/86; 83-24-017 (Order 83-36), § 296-17-773, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-773, filed 11/29/82, effective 1/1/83.]

WAC 296-17-777 Classification 7307.

7307-00 Farms: Christmas tree

Applies to establishments engaged in operating Christmas tree farms. Work contemplated by this classification includes, but is not limited to, preparing soil for new trees, planting trees, fertilizing, spraying, fumigating, weeding, pruning, harvesting, baling, packing, delivering trees, and maintaining or installing sprinkler or irrigation systems when performed by employees of an employer subject to this classification. This classification also applies to wholesale Christmas tree operations. Retail tree sales conducted at a farm location, as in the case of a U-cut tree operation, or at a seasonal sales lot away from the farm *may* be reported separately provided the conditions in classification 4805-09 have been met.

This classification excludes contractors engaged exclusively in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special notes: Establishments assigned to classification 4805-09 should report hours in this classification *only* during the fourth quarter of each year since these sales are confined to the Christmas season. Special care should be exercised when assigning this classification as work covered by classification 5004 is similar in nature.

The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as planting trees, pruning, or harvesting. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

7307-01 Tree farms, N.O.C.

(to be assigned only by classification services staff)

Applies to establishments engaged in operating tree farms not covered by another classification, (N.O.C.) such as, but not limited to, cottonwood tree farms. Operations contemplated by this classification include, but are not limited to, preparing soil for new trees, planting trees, fertilizing, spraying, fumigating, weeding, pruning trees, and maintaining or installing sprinkler systems when performed by employees of an employer subject to this classification.

This classification excludes harvesting of trees which is to be reported separately in the appropriated logging classification based on the method of harvest; contractors engaged in the installation of sprinkler or irrigation systems who are to be reported separately in classification 0301; and contractors hired by a tree farm operator to build or repair fences or structures who are to be reported separately in the appropriate construction classification applicable to the work being performed.

Special note: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as planting trees, pruning, or harvesting. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm with which they are contracting. Contractors who provide both equipment or machinery and the machine operators are to be reported in classification 4808 "custom farm services" as the process involved in operating machinery is the same irrespective of the type of farm they are providing service to or the type of crop involved.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-777, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-777, filed 5/31/93, effective 7/1/93; 89-24-051 (Order 89-22), § 296-17-777, filed 12/1/89, effective 1/1/90. Statutory

Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-777, filed 11/27/85, effective 1/1/86; 82-24-047 (Order 82-38), § 296-17-777, filed 11/29/82, effective 1/1/83.]

WAC 296-17-778 Classification 7308.

7308-02 Animal shelters or services, dog pounds and humane societies

Applies to establishments engaged in operating animal shelters/services, dog pounds, or humane societies which care for lost or unwanted animals or animals that have been placed for adoption. The title "animal services" has replaced the title "animal shelter" or "dog pound" in most establishments. While the activities are the same under all of these titles, the main difference is the funding. Animal services are tax-base funded; humane societies are privately funded. Activities include, but are not limited to, feeding, cleaning, or grooming animals, veterinary care, euthanasia, catching or controlling animals, and investigating incidents such as animal bites and animal abuse. This classification also applies to dog obedience classes that are not in connection with kennels or pet breeding establishments.

This classification excludes pet grooming parlors which are to be reported separately in classification 7308-03; pet stores which are to be reported separately in classification 7308-04; and pet breeding/boarding kennels which are to be reported separately in classification 7308-05.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

7308-03 Pet grooming parlors

Applies to establishments engaged in providing pet grooming services either at the groomer's or the customer's location. Services may be provided in a shop or at the customer's location with the use of a vehicle equipped with the necessary supplies. Although most of the animals groomed are dogs, parlors may also groom cats. Activities include, but are not limited to, bathing, dipping to control fleas, cutting, brushing, combing and drying hair, clipping nails, and the incidental sale of pet products such as collars, shampoos and pet clothing. Depending on the length of their stay, animals may also be fed, watered, and placed in kennels until their owners pick them up.

This classification excludes animal shelters, dog pounds, and humane societies which are to be reported separately in classification 7308-02; pet stores, N.O.C. which are to be reported separately in classification 7308-04; and pet breeding/boarding kennels which are to be reported separately in classification 7308-05.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

7308-04 Pet stores, N.O.C.

Applies to establishments engaged as pet stores not covered by another classification (N.O.C.). Stores in this classification sell *cats and dogs*. In addition to cats and dogs, they may also sell other animals such as birds, snakes, fish, reptiles or turtles, and related items such as, but not limited to, pet food, cages, travel carriers, pet toys, collars, shampoos, flea, tick and worm treatments, vaccination equipment, aquariums, and supplies aquariums. This classification also includes any incidental pet grooming performed by employees of employers subject to this classification.

This classification excludes stores which sell pets such as tropical fish, birds or reptiles, *but do not sell cats and dogs,* which are to be reported separately in classification 6406; pet grooming parlors which are to be reported separately in classification 7308-03; animal shelters, dog pounds and humane societies which are to be reported separately in classification 7308-02; pet breeding/boarding kennels which are to be reported separately in classification 7308-05 and stores which sell pet food only, but do not sell pets, which are to be reported separately in classification 6403.

Special note: Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

7308-05 Pet breeding and boarding kennels

Applies to establishments primarily engaged in boarding pets while their owners are away from home, or in boarding pets for others in connection with a breeding service. Work contemplated by this classification is of a custodial nature that includes, but is not limited to, sheltering, tending, breeding, grooming and feeding animals, erecting or mending fences, erecting or maintaining kennels, cleaning kennels, and veterinary services and the incidental sale of animals, animal grooming or care supplies when performed by employees of an employer subject to this classification.

This classification excludes pet grooming parlors which are to be reported separately in classification 7308-03 and contractors hired by a farm operator to build or repair fences or structures who are to be reported separately in the applicable construction classification.

Special notes: The term "farm labor contractor" applies to specialty contractors who supply laborers to a farm operation for specified services such as feeding animals, grooming, and cleaning kennels. Generally the work involves manual labor tasks as opposed to machine operations. Farm labor contractors will be reported in the classification applicable to the farm or business with which they are contracting.

Effective July 1, 1996, clerical office and outside sales employees may be reported separately provided all the conditions of the general reporting rules covering standard exception employees have been met.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-778, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-778, filed 5/31/96, effective 7/1/96; 85-24-032 (Order 85-33), § 296-17-778, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-778, filed 2/28/85, effective 4/1/85; 83-24-017 (Order 83-36), § 296-17-778, filed 11/30/83, effective 1/1/84.]

WAC 296-17-779 Classification 7309.

7309-00 Work activity centers

Applies only to the most severely disabled persons, and to developmentally disabled persons whose handicaps are so severe as to make their productivity inconsequential, and who are included on the center's certificate for special minimum wage issued by the U.S. Department of Labor.

This classification excludes *all* staff who operate work activity centers and *all* staff who operate sheltered workshops, even if the sheltered workshop also operates a work activity center, who are to be reported separately in classification 6709 and to disabled persons, and to developmentally disabled persons enrolled in sheltered workshops who are to be reported separately in classification 6709.

Special note: Work activity centers differ from sheltered workshops in the severity of the impairments of the participants.

While the workers' compensation rates for classifications 7309 and 6709 are identical, the premiums for classification 7309 are calculated on a piece rate basis to reflect the limited productivity of the workers covered by this classification.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-779, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 94-12-063, § 296-17-779, filed 5/30/94, effective 6/30/94. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-779, filed 11/27/85, effective 1/1/86. Statutory Authority: RCW 51.04.020(1). 84-11-034 (Order 84-11), § 296-17-779, filed 5/15/84.]

WAC 296-17-850 Experience rating plan—Eligibility and experience period. (1) **Eligibility.** Effective January 1, 1991, and thereafter each employer who has reported experience during the "experience period" shall have his/her base rates multiplied by an "experience factor" calculated in accordance with the rules of this manual. The development of the "experience factor" as set forth in WAC 296-17-855 shall include losses and exposure reported in all risk classifications.

(2) **Experience period.** The "experience period" shall be the oldest three of the four fiscal years preceding the effective date of premium rates as set forth in WAC 296-17-895.

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-20-092, § 296-17-850, filed 10/1/90, effective 11/1/90. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-850, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-850, filed 5/29/87, effective 7/1/87; 86-12-041 (Order 86-18), § 296-17-850, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-850, filed 11/27/85, effective 1/1/86; 85-13-046 (Order 85-13), § 296-17-850, filed 6/17/85; 82-24-047 (Order 82-38), § 296-17-850, filed 11/29/82, effective 1/1/83. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-850, filed 11/30/79, effective 1/1/80; Order 76-18, § 296-17-850, filed 5/28/76, effective 7/1/76; Order 74-40, § 296-17-850, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-850, filed 11/9/73, effective 1/1/74.]

WAC 296-17-855 Experience modification. The basis of the experience modification shall be a comparison of the actual losses charged to an employer during the experience period with the losses which would be expected for an average employer reporting the same exposures in each classification. The comparison shall contain actuarial refinements designed to mitigate the effects of losses which may be considered catastrophic or of doubtful statistical significance, due consideration being given to the volume of the employer's experience. Except for those employers who qualify for an adjusted experience modification as specified in WAC 296-17-860 or 296-17-865, the experience modification shall be calculated from the formula:

$$\text{MODIFICATION} = \frac{Ap + WAe + (1\text{-}W)\,Ee + B}{E + B}$$

The components Ap, WAe, and (1-W) Ee are values which shall be charged against an employer's experience record. The component, E, shall be the expected value of these charges for an average employer reporting the same exposures in each classification. The meaning and function of each symbol in the formula is specified below.

"Ap" signifies "primary actual losses." For each claim the primary actual loss is defined as that portion of the claim which is considered completely rateable for all employers and which is to enter the experience modification calculation at its full value. For each claim in excess of $10,072 the primary actual loss shall be determined from the formula:

$$\text{PRIMARY LOSS} = \frac{25,180}{\text{Total loss} + 15,108} \times \text{total loss}$$

Primary actual losses for selected claim values are shown in Table I. For each claim less than $10,072 the full value of the claim shall be considered a primary loss.

"Ae" signifies "excess actual losses." For each claim the excess actual loss is defined as that portion of the claim which is not considered completely rateable for all employers. The excess actual loss for each claim shall be determined by subtracting the primary loss from the total loss.

"W" signifies "W value." For each employer, the W value determines the portion of the actual excess losses which shall be included in the calculation of his experience modification, due consideration being given to the volume of his experience. This amount is represented by the symbol "WAe" in the experience modification formula. W values are set forth in Table II.

"E" signifies "expected losses." An employer's expected losses shall be determined by multiplying his reported exposure in each classification during the experience period by the classification expected loss rate. Expected loss rates are set forth in Table III.

"Ee" signifies "expected excess losses." Expected losses in each classification shall be multiplied by the classification "D-Ratio" to obtain "expected primary losses." Expected excess losses shall then be calculated by subtracting expected primary losses from expected total losses. Each employer shall have a statistical charge included in the calculation of his experience modification, said charge to be actuarially equivalent to the amount forgiven an average employer because of the exclusion of a portion of his excess actual losses. This charge is represented by "(1-W) Ee" in the experience modification formula. D-Ratios are set forth in Table III.

"B" signifies "B value" or "ballast." In order to limit the effect of a single severe accident on the modification of a small employer, a stabilizing element (B value) shall be added to both actual and expected losses. B values are set forth in Table II.

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-855, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-855, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-855, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-855, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-855, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-855, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-855, filed 5/31/93, effective 7/1/93; 92-24-063, § 296-17-855, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-855, filed 11/27/91, effective 1/1/92; 90-24-042, § 296-17-855, filed 11/30/90, effective 1/1/91; 89-

24-051 (Order 89-22), § 296-17-855, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-855, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-855, filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-855, filed 11/26/86. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-855, filed 11/27/85, effective 1/1/86; 84-24-016 (Order 84-23), § 296-17-855, filed 11/28/84, effective 1/1/85; 83-24-017 (Order 83-36), § 296-17-855, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-855, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-855, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-855, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-855, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-17-855, filed 11/30/77, effective 1/1/78; Order 74-40, § 296-17-855, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-855, filed 11/9/73, effective 1/1/74.]

WAC 296-17-860 Transition adjustment. In the event that an employer has no compensable accidents during the experience period and the experience modification calculated in accordance with WAC 296-17-855 is greater than the experience modification shown in Table IV, WAC 296-17-890 then such modification shall be reduced to the value shown in Table IV. For the purpose of this rule, a compensable accident is defined as one which has resulted in, or is expected to result in, time loss compensation, permanent disability or death.

[Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-860, filed 11/30/79, effective 1/1/80; Order 74-40, § 296-17-860, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-860, filed 11/9/73, effective 1/1/74.]

WAC 296-17-865 Experience modification limitations. (1) Notwithstanding the experience modification otherwise obtained in this manual, no employer's experience modification shall increase or decrease by more than 25% during any one year except as provided in subparagraph (2) below.

(2) The 25% limitation on the change in the experience modification shall not apply in the following cases:

(a) In cases where it would cause an employer with better than average experience during the experience period to receive an experience modification greater than 1.00.

(b) In cases where it would cause an employer with worse than average experience during the experience period to receive a modification less than 1.00.

In the above specified cases the employer's modification shall be allowed to decrease or to increase, as the case may be, to 1.00.

[Order 77-27, § 296-17-865, filed 11/30/77, effective 1/1/78; Order 74-40, § 296-17-865, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-865, filed 11/9/73, effective 1/1/74.]

WAC 296-17-86502 Medical aid experience modification limitations. The medical aid fund premiums shall be experience rated beginning January 1, 1989, using the reported past experience of employers as provided for in the department's experience rating plan. However, the initial experience rating adjustment for each employer shall be made from a base modification of 1.0000, with adjustments limited to twenty-five percent annually until the actual experience rating developed by the department for each employer has been reached or four years from the effective date of this section, whichever comes first. Thereafter, adjustments will be made in accordance with the parameters established by the department's experience rating plan.

[Statutory Authority: RCW 51.16.035. 88-16-012 (Order 88-12), § 296-17-86502, filed 7/22/88, effective 1/1/89.]

WAC 296-17-870 Evaluation of actual losses. Except as provided in the following subsections of this paragraph, actual losses shall include all payments as of the "valuation date" for each claim arising from an accident occurring during the experience period. Losses for claims open as of the valuation date may also include a reserve for future payments. Actual losses on claims for accidents occurring outside of the experience period shall not be included.

(1) **Valuation date.** The valuation date shall be on and include December 31, one year and one day immediately preceding the effective date of premium rates as set forth in WAC 296-17-895. For experience modifications effective January 1, 1990, and thereafter, the valuation date shall be June 1, seven months immediately preceding the effective date of premium rates.

(2) **Retroactive adjustments - revision of losses between valuation dates.** No claim value shall be revised between valuation dates and no retroactive adjustment of an experience modification shall be made because of disputation concerning the judgment of the claims examiner or because of subsequent developments except as specifically provided in the following cases:

(a) In cases where loss values are included or excluded through mistake other than error of judgment.

(b) In cases where a third party recovery is made, subject to subsection (4)(a) of this section.

(c) In cases where the claim qualifies as a second injury claim under the provisions of RCW 51.16.120.

(d) In cases where a claim, which was previously evaluated as a compensable claim, is closed and is determined to be noncompensable (ineligible for benefits other than medical treatment).

(e) In cases where a claim is closed and is determined to be ineligible for any benefits.

In the above specified cases retroactive adjustment of the experience modification shall be made for each rating in which the claim was included. Retroactive adjustments will not be made for rating periods more than ten years prior to the date on which the claim status was changed.

(3) **Average death value.** Each fatality occurring to a worker included within the mandatory or elective coverage of Title 51 RCW shall be assigned the "average death value, " said value to be the average incurred cost for all such fatalities occurring during the experience period. The average death value is set forth in Table II.

(4) **Third-party recovery - effect on experience modification.**

(a) For claims with injury dates prior to July 1, 1994, a potential claim cost recovery from action against a third party, either by the injured worker or by the department, shall not be considered in the evaluation of actual losses until such time as the third-party action has been completed. If a third-party recovery is made after a claim had previously been used in an experience modification calculation, the experience

modification shall be retroactively adjusted. The department shall compute a percentage recovery by dividing the current valuation of the claim into the amount recovered or recoverable as of the recovery date, and shall reduce both primary and excess losses previously used in the experience modification calculation by that percentage.

(b) For claims with injury dates on or after July 1, 1994, if the department determines that there is a reasonable potential of recovery from an action against a third party, both primary and excess values of the claim shall be reduced by fifty percent for purposes of experience modification calculation, until such time as the third-party action has been completed. This calculation shall not be retroactively adjusted, regardless of the final outcome of the third-party action. After a third-party recovery is made, the actual percentage recovery shall be applied to future experience modification calculations.

(c) For third-party actions completed before July 1, 1996, the claim shall be credited with the department's net share of the recovery, after deducting attorney fees and costs. For third-party actions completed on or after July 1, 1996, the claim shall be credited with the department's gross share of the recovery, before deducting attorney fees and costs.

(d) Definitions:

(i) As used in this section, "recovery date" means the date the money is received at the department or the date the order confirming the distribution of the recovery becomes final, whichever comes first.

(ii) As used in this section, "recoverable" means any amount due as of the recovery date and/or any amount available to offset case reserved future benefits.

(5) **Second injury claims.** The primary and excess values of any claim which becomes eligible for second injury relief under the provisions of RCW 51.16.120, as now or hereafter amended, shall be reduced by the percentage of relief granted.

(6) **Occupational disease claims.** When a claim results from an employee's exposure to an occupational disease hazard, the "date of injury, " for the purposes of experience rating, shall be the date on which the disability was diagnosed, giving rise to the filing of a claim for benefits. The cost of any occupational disease claim, paid from the accident fund and medical aid fund and arising from exposure to the disease hazard under two or more employers, shall be prorated to each period of employment involving exposure to the hazard. Each insured employer who had employed the claimant during the experience period, and for at least ten percent of the claimant's exposure to the hazard, shall be charged for his share of the claim based upon the prorated costs.

(7) **Maximum claim value.** No claim shall enter an employer's experience record at a value greater than the "maximum claim value." The maximum claim value is set forth in Table II.

[Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-870, filed 8/28/98, effective 10/1/98; 96-12-039, § 296-17-870, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-13-018, § 296-17-870, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-870, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-870, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 88-16-012 (Order 88-12), § 296-17-870 filed 7/22/88, effective 1/1/89; 81-24-042 (Order 81-30), § 296-17-870, filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-870, filed 11/27/78, effective 1/1/79; Order 75-38, § 296-17-870, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-870, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-870, filed 11/9/73, effective 1/1/74.]

WAC 296-17-873 Responsibility for past experience. WAC 296-17-87301 through 296-17-87306 shall be used to determine the assignment of past loss experience associated with a change in business ownership for experience rating purposes. It is the intent of these rules that every firm (business) shall be responsible for its past experience irrespective of ownership as long as the firm (business) continues to conduct operations which are subject to Washington Workers' Compensation Act. When a business or portion of a business is sold, the new owner or owners of such business or portion thereof shall also take over the past loss experience associated with the business unless another treatment is specified in these rules.

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-873, filed 5/31/93, effective 7/1/93; 90-20-092, § 296-17-873, filed 10/1/90, effective 11/1/90; 89-24-051 (Order 89-22), § 296-17-873, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-873, filed 11/30/79, effective 1/1/80.]

WAC 296-17-87301 Definitions. The definitions in this section shall apply throughout WAC 296-17-873 through 296-17-87308.

(1) "Entity" means an individual, partnership, corporation, unincorporated association, or fiduciary operation (e.g. trust, receivership, or estate of deceased individual).

(2) "Majority interest" means more than fifty percent ownership in the firm (business). If the owners of the firm (business) are a partnership, majority interest means more than fifty percent of the general partners' ownership in the firm (business). Majority interest in a partnership shall be determined in proportion to the general partners' ownership of the firm (business). For example, in a three-way partnership . . . partner A owns twenty percent of the business, partner B owns twenty percent of the business, and partner C owns sixty percent of the business . . . if partner A sold his/her share of the business, a majority interest still exists as partners B and C retain a majority interest (eighty percent) in the firm (business). Limited partners shall not be considered to have an ownership interest for purpose of these rules.

(3) "Joint venture" means a combination of two or more entities, entered into for the purpose of carrying to completion a specified job of limited duration.

(4) "Employee leasing entity" means a firm (business) which provides workers on a long-term basis to another firm.

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-20-092, § 296-17-87301, filed 10/1/90, effective 11/1/90; 89-24-051 (Order 89-22), § 296-17-87301, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87301, filed 11/30/79, effective 1/1/80.]

WAC 296-17-87304 Change in ownership with an accompanying change in business activities. When a majority change in the ownership of a firm (business) is accompanied by a change in the business activity of the firm (business) and this change is sufficient to result in a reclassification of the basic classification assigned to the firm (busi-

ness), then the past experience, prior to the change, shall be excluded from future experience ratings of the acquiring entity. If the change in business activities is not sufficient to result in a reclassification of the basic classification assigned to the firm (business), the acquiring entity shall retain the past experience attributable to the firm (business) or portion thereof which was purchased. For purposes of this rule, the term "basic classification" shall mean the classification other than standard exception classifications as defined in WAC 296-17-440 which produces the largest number of worker hours during the calendar year in which the change in business operations is noted. The basic classification of a business shall be determined in accordance with WAC 296-17-310 (2) and (7) "overview" and "assignment of classifications."

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-20-092, § 296-17-87304, filed 10/1/90, effective 11/1/90.]

WAC 296-17-87305 Initial recalculation of experience factor. When an entity acquires the past experience of an existing firm (business) or portion thereof, the following treatment shall apply until the next date for the general calculation of all employers' experience factors. WAC 296-17-865, "Experience modification limitations" shall not apply in these situations. The purpose of this subsection is to produce the same premium level that would have been generated had no change in the ownership of a firm (business) occurred.

(1) Acquiring entity retains all rating experience associated with the firm (business), or portion thereof, being acquired. The selling entity shall revert to an experience factor of unity (1.0000) until such time as it may requalify for experience rating or unless another treatment is specified in these rules.

(2) If the acquiring entity already has an experience factor, it shall be assigned a weighted average of its existing experience factor and the acquired experience factor. Weights will be based on expected losses. In the event the acquiring entity does not have an existing experience factor, it shall be assigned an experience factor developed from the past experience of the firm (business) or portion thereof being acquired.

(3) If the past experience of the firm (business) cannot be segregated between the operations remaining with the selling entity and the operations being taken over by the acquiring entity, then the entire experience of the firm (business) shall remain with the selling entity. In the event that the past experience can be segregated, the following shall apply:

(a) Separate experience factors shall be calculated for each portion of the firm (business) being sold using the experience rating procedures in WAC 296-17-855 through 296-17-870.

(b) Both experience factors shall be increased or decreased in the same proportion, if necessary, so that their weighted average is the same as the selling entity's experience factor prior to the sale or change.

(c) The selling entity shall be assigned the experience factor for the experience it is retaining.

(d) The experience factor developed in (a) and (b) of this subsection shall be used in accordance with subsection (2) of this section.

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-20-092, § 296-17-87305, filed 10/1/90, effective 11/1/90; 89-24-051 (Order 89-22), § 296-17-87305, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-87305, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87305, filed 11/30/79, effective 1/1/80.]

WAC 296-17-87306 Combination of entities. Separate entities shall be combined for experience rating purposes when the same person or persons and/or a single corporation owns a majority interest in each of the entities.

Note: If two or more different combinations are possible in accordance with the provisions of this section, the combination producing the greatest amount of expected losses during the experience period shall be made. The experience of any entity used in such combinations may not be otherwise used in combination with any other entity. The experience used in a rating of combination shall be subject to the provisions of WAC 296-17-87305 (Initial recalculation of experience factor).

Exceptions:

(1) Individual trusts may not be combined for experience rating purposes with operations of the trustee nor with the operations of any other trusts. However, two or more trusts having identical trustees and also having identical beneficiaries shall be combined.

(2) Joint venture operations may not be combined with the operations of any other entity, even though the members of the joint venture are identically owned.

This subsection applies only where the entities are or have been operating and insured concurrently in Washington. It does not apply where concurrent operations are for a short period of time, not exceeding one year, if the operation of the original entity during the period both entities were operating, was restricted to the completion of projects entered into prior to the new entity commencing operations. Newly formed joint ventures shall be assigned an experience factor of unity (1.0000).

(3) Employee leasing firms (businesses) shall be required to establish a subaccount for each client for which they supply workers. This account will be a subaccount number of their client's account number. The client's account and the employee leasing firm's subaccount shall be combined to produce a single experience factor which will be shared by both the client and employee leasing firm (business).

[Statutory Authority: RCW 51.04.020(1) and 51.16.035. 90-20-092, § 296-17-87306, filed 10/1/90, effective 11/1/90. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-87306, filed 11/30/79, effective 1/1/80.]

WAC 296-17-875 Table I.

Primary Losses for Selected Claim Values

CLAIM VALUE	PRIMARY LOSS
10,072	10,072
11,720	11,000
13,755	12,000
16,125	13,000
18,919	14,000
26,332	16,000
37,875	18,000
58,332	20,000
104,521	22,000

Primary Losses for Selected Claim Values

168,469 *	23,108
251,800 **	23,755

* Average death value
** Maximum claim value

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-875, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-875, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-875, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-875, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-875, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-875, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-875, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-875, filed 11/27/91, effective 1/1/92; 90-24-042, § 296-17-875, filed 11/30/90, effective 1/1/91; 89-24-051 (Order 89-22), § 296-17-875, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-875, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-875, filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-875, filed 11/26/86. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-875, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-875, filed 11/27/85, effective 1/1/86; 84-24-016 (Order 84-23), § 296-17-875, filed 11/28/84, effective 1/1/85; 83-24-017 (Order 83-36), § 296-17-875, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-875, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-875, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-875, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-875, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-875, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-875, filed 11/30/77, effective 1/1/78; Order 76-36, § 296-17-875, filed 11/30/76; Order 75-38, § 296-17-875, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-875, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-875, filed 11/9/73, effective 1/1/74.]

WAC 296-17-880 Table II.

"B" and "W" Values

Maximum Claim Value = $251,800
Average Death Value = $168, 469

Expected Losses			B	W
5,455 & Under			47,510	0.00
5,456	-	10,992	47,035	0.01
10,993	-	16,612	46,560	0.02
16,613	-	22,317	46,085	0.03
22,318	-	28,109	45,610	0.04
28,110	-	33,990	45,135	0.05
33,991	-	39,963	44,659	0.06
39,964	-	46,030	44,184	0.07
46,031	-	52,194	43,709	0.08
52,195	-	58,456	43,234	0.09
58,457	-	64,820	42,759	0.10
64,821	-	71,288	42,284	0.11
71,289	-	77,864	41,809	0.12
77,865	-	84,549	41,334	0.13
84,550	-	91,347	40,859	0.14
91,348	-	98,261	40,384	0.15
98,262	-	105,294	39,908	0.16
105,295	-	112,450	39,433	0.17
112,451	-	119,732	38,958	0.18
119,733	-	127,143	38,483	0.19
127,144	-	134,688	38,008	0.20
134,689	-	142,371	37,533	0.21
142,372	-	150,194	37,058	0.22
150,195	-	158,163	36,583	0.23
158,164	-	166,282	36,108	0.24
166,283	-	174,555	35,633	0.25
174,556	-	182,988	35,157	0.26
182,989	-	191,585	34,682	0.27
191,586	-	200,350	34,207	0.28
200,351	-	209,291	33,732	0.29
209,292	-	218,411	33,257	0.30
218,412	-	227,717	32,782	0.31
227,718	-	237,216	32,307	0.32
237,217	-	246,912	31,832	0.33
246,913	-	256,814	31,357	0.34
256,815	-	266,927	30,882	0.35
266,928	-	277,260	30,406	0.36
277,261	-	287,819	29,931	0.37
287,820	-	298,613	29,456	0.38
298,614	-	309,649	28,981	0.39
309,650	-	320,937	28,506	0.40
320,938	-	332,485	28,031	0.41
332,486	-	344,304	27,556	0.42
344,305	-	356,402	27,081	0.43
356,403	-	368,791	26,606	0.44
368,792	-	381,482	26,131	0.45
381,483	-	394,486	25,655	0.46
394,487	-	407,815	25,180	0.47
407,816	-	421,483	24,705	0.48
421,484	-	435,502	24,230	0.49
435,503	-	449,888	23,755	0.50
449,889	-	464,654	23,280	0.51
464,655	-	479,818	22,805	0.52
479,819	-	495,395	22,330	0.53
495,396	-	511,404	21,855	0.54
511,405	-	527,863	21,380	0.55
527,864	-	544,793	20,904	0.56
544,794	-	562,213	20,429	0.57
562,214	-	580,147	19,954	0.58
580,148	-	598,618	19,479	0.59
598,619	-	617,652	19,004	0.60
617,653	-	637,274	18,529	0.61
637,275	-	657,514	18,054	0.62
657,515	-	678,403	17,579	0.63
678,404	-	699,972	17,104	0.64
699,973	-	722,255	16,629	0.65
722,256	-	745,291	16,153	0.66
745,292	-	769,119	15,678	0.67
769,120	-	793,780	15,203	0.68
793,781	-	819,321	14,728	0.69
819,322	-	845,790	14,253	0.70
845,791	-	873,241	13,778	0.71
873,242	-	901,728	13,303	0.72
901,729	-	931,315	12,828	0.73
931,316	-	962,065	12,353	0.74
962,066	-	994,052	11,878	0.75
994,053	-	1,027,351	11,402	0.76
1,027,352	-	1,062,047	10,927	0.77
1,062,048	-	1,098,231	10,452	0.78
1,098,232	-	1,136,003	9,977	0.79
1,136,004	-	1,175,469	9,502	0.80
1,175,470	-	1,216,749	9,027	0.81

1,216,750	-	1,259,972	8,552	0.82
1,259,973	-	1,305,280	8,077	0.83
1,305,281	-	1,352,830	7,602	0.84
1,352,831	-	1,402,794	7,126	0.85
1,402,795	-	1,455,363	6,651	0.86
1,455,364	-	1,510,748	6,176	0.87
1,510,749	-	1,569,183	5,701	0.88
1,569,184	-	1,630,930	5,226	0.89
1,630,931	-	1,696,282	4,751	0.90
1,696,283	-	1,765,565	4,276	0.91
1,765,566	-	1,839,149	3,801	0.92
1,839,150	-	1,917,449	3,326	0.93
1,917,450	-	2,000,938	2,851	0.94
2,000,939	-	2,090,152	2,375	0.95
2,090,153	-	2,185,705	1,900	0.96
2,185,706	-	2,288,300	1,425	0.97
2,288,301	-	2,398,750	950	0.98
2,398,751	-	2,517,999	475	0.99
2,518,000 & Over			0	1.00

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-880, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-880, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-880, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-880, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-880, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-880, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-880, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-880, filed 11/27/91, effective 1/1/92; 90-24-042, § 296-17-880, filed 11/30/90, effective 1/1/91; 89-24-051 (Order 89-22), § 296-17-880, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-880, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-880, filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-880, filed 11/26/86. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-880, filed 11/27/85, effective 1/1/86; 84-24-016 (Order 84-23), § 296-17-880, filed 11/28/84, effective 1/1/85; 83-24-017 (Order 83-36), § 296-17-880, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-880, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-880, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-880, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-880, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-880, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-880, filed 11/30/77, effective 1/1/78; Order 76-36, § 296-17-880, filed 11/30/76; Order 75-38, § 296-17-880, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-880, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-880, filed 11/9/73, effective 1/1/74.]

WAC 296-17-885 Table III.

Expected Loss Rates and D-Ratios
for Indicated Fiscal Year
Expected Loss Rates in Dollars Per Worker Hour

Class	1995	1996	1997	D-Ratio
0101	1.2089	1.0530	0.9338	0.407
0102	1.0608	0.9347	0.8389	0.445
0103	1.4254	1.2595	1.1338	0.455
0104	0.8625	0.7561	0.6753	0.429
0105	1.0865	0.9724	0.8868	0.495
0106	1.2089	1.0530	0.9338	0.407
0107	1.0068	0.8875	0.7972	0.450
0108	0.8625	0.7561	0.6753	0.429
0109	1.4947	1.2960	1.1443	0.393
0112	0.5877	0.5213	0.4711	0.467
0201	2.3324	2.0138	1.7697	0.378
0202	2.3324	2.0138	1.7697	0.378
0210	0.7859	0.6901	0.6175	0.436
0212	0.8038	0.7008	0.6224	0.410
0214	0.9807	0.8678	0.7827	0.462
0217	1.0608	0.9347	0.8389	0.445
0219	0.9766	0.8538	0.7602	0.417
0301	0.5601	0.5059	0.4658	0.524
0302	1.6414	1.4199	1.2501	0.386
0303	1.5420	1.3419	1.1892	0.406
0306	0.8814	0.7750	0.6947	0.441
0307	0.6661	0.5941	0.5405	0.488
0308	0.4887	0.4472	0.4172	0.570
0403	1.3030	1.1525	1.0390	0.455
0502	1.2426	1.0885	0.9714	0.429
0504	1.2224	1.0652	0.9450	0.404
0506	3.7331	3.2321	2.8478	0.385
0507	2.8413	2.4918	2.2255	0.427
0508	2.7879	2.3853	2.0757	0.347
0509	1.5341	1.3334	1.1797	0.397
0510	1.2508	1.1054	0.9955	0.455
0511	1.0283	0.9191	0.8379	0.496
0512	1.2064	1.0711	0.9695	0.473
0513	0.6226	0.5557	0.5058	0.492
0514	1.1527	1.0310	0.9407	0.494
0515	2.6517	2.3092	2.0474	0.407
0516	1.2508	1.1054	0.9955	0.455
0517	1.4465	1.2903	1.1733	0.484
0518	1.4947	1.2960	1.1443	0.393
0519	1.6199	1.4271	1.2810	0.442
0520	1.3963	1.2176	1.0814	0.414
0521	1.1763	1.0246	0.9085	0.404
0601	0.5051	0.4545	0.4170	0.517
0602	0.3786	0.3436	0.3181	0.548
0603	0.7746	0.6768	0.6024	0.419
0604	0.9704	0.8666	0.7892	0.486
0606	0.2679	0.2468	0.2319	0.591
0607	0.3157	0.2849	0.2624	0.526
0608	0.2478	0.2233	0.2053	0.516
0701	1.7727	1.5135	1.3147	0.347
0803	0.3138	0.2854	0.2647	0.551
0804	0.5877	0.5213	0.4711	0.467
0901	1.4947	1.2960	1.1443	0.393
1002	0.6871	0.6211	0.5725	0.529
1003	0.6868	0.6166	0.5647	0.506
1004	0.4392	0.3905	0.3541	0.474
1005	5.6608	4.8673	4.2552	0.360
1007	0.2938	0.2635	0.2411	0.507
1101	0.4676	0.4262	0.3962	0.557
1102	1.1068	0.9764	0.8773	0.448
1103	0.5663	0.5092	0.4668	0.513
1104	0.3758	0.3447	0.3223	0.572
1105	0.6398	0.5775	0.5316	0.524
1106	0.2669	0.2427	0.2253	0.542
1108	0.3907	0.3550	0.3290	0.545
1109	0.6978	0.6339	0.5874	0.542
1301	0.3686	0.3332	0.3069	0.526
1303	0.1464	0.1335	0.1243	0.560
1304	0.0201	0.0183	0.0169	0.537

Class	1995	1996	1997	D-Ratio	Class	1995	1996	1997	D-Ratio
1305	0.3569	0.3198	0.2921	0.494	3506	0.8275	0.7308	0.6582	0.461
1401	0.4877	0.4379	0.4008	0.502	3509	0.3241	0.3010	0.2849	0.618
1404	0.4636	0.4207	0.3892	0.544	3510	0.3492	0.3188	0.2968	0.560
1405	0.3406	0.3048	0.2785	0.493	3511	0.5104	0.4641	0.4303	0.545
1501	0.3493	0.3176	0.2945	0.550	3512	0.3150	0.2908	0.2738	0.593
1507	0.3247	0.2967	0.2765	0.567	3513	0.3592	0.3278	0.3053	0.559
1701	0.6155	0.5479	0.4969	0.476	3602	0.1017	0.0941	0.0888	0.602
1702	1.4931	1.2934	1.1406	0.387	3603	0.4142	0.3779	0.3516	0.557
1703	0.2939	0.2612	0.2368	0.475	3604	1.0359	0.9497	0.8881	0.577
1704	0.6155	0.5479	0.4969	0.476	3605	0.3951	0.3588	0.3322	0.544
1801	0.7675	0.6685	0.5931	0.403	3701	0.2117	0.1918	0.1772	0.534
1802	0.7431	0.6619	0.6006	0.478	3702	0.3451	0.3174	0.2978	0.588
2002	0.5152	0.4700	0.4375	0.557	3707	0.4870	0.4338	0.3933	0.461
2004	0.5361	0.4957	0.4671	0.603	3708	0.3769	0.3402	0.3132	0.521
2007	0.4108	0.3681	0.3362	0.497	3801	0.1469	0.1351	0.1267	0.582
2008	0.2336	0.2107	0.1938	0.520	3802	0.1469	0.1351	0.1267	0.582
2009	0.2832	0.2584	0.2405	0.556	3808	0.3202	0.2884	0.2649	0.517
2101	0.5281	0.4743	0.4341	0.504	3901	0.1394	0.1294	0.1224	0.608
2102	0.3754	0.3430	0.3196	0.560	3902	0.3279	0.2994	0.2789	0.559
2104	0.2239	0.2066	0.1943	0.591	3903	1.0106	0.9121	0.8397	0.516
2105	0.5125	0.4650	0.4301	0.544	3905	0.1394	0.1294	0.1224	0.608
2106	0.2895	0.2613	0.2407	0.519	3906	0.3719	0.3379	0.3130	0.543
2201	0.2071	0.1865	0.1713	0.514	3909	0.1502	0.1387	0.1307	0.596
2202	0.4547	0.4171	0.3903	0.579	4002	0.7544	0.6842	0.6323	0.545
2203	0.2830	0.2613	0.2461	0.598	4101	0.2046	0.1876	0.1754	0.575
2204	0.1912	0.1721	0.1581	0.514	4103	0.2240	0.2110	0.2024	0.664
2401	0.3339	0.3045	0.2832	0.551	4107	0.1169	0.1068	0.0997	0.564
2903	0.5565	0.5086	0.4741	0.563	4108	0.1386	0.1247	0.1146	0.514
2904	0.6371	0.5722	0.5241	0.502	4109	0.1931	0.1767	0.1648	0.565
2905	0.4151	0.3845	0.3632	0.610	4201	0.3613	0.3273	0.3023	0.544
2906	0.2937	0.2661	0.2461	0.539	4301	0.6441	0.5814	0.5353	0.518
2907	0.4443	0.4033	0.3733	0.540	4302	0.4644	0.4201	0.3876	0.535
2908	0.7846	0.7067	0.6491	0.517	4304	0.5873	0.5327	0.4928	0.538
2909	0.3562	0.3250	0.3026	0.558	4305	0.7517	0.6782	0.6240	0.526
3101	0.6247	0.5498	0.4930	0.437	4401	0.3685	0.3283	0.2981	0.472
3102	0.2117	0.1918	0.1772	0.534	4402	0.5869	0.5345	0.4966	0.552
3103	0.6829	0.5996	0.5365	0.428	4404	0.3389	0.3042	0.2784	0.500
3104	0.4464	0.3976	0.3610	0.483	4501	0.1227	0.1118	0.1040	0.552
3105	0.6629	0.6062	0.5654	0.569	4502	0.0379	0.0344	0.0319	0.543
3303	0.2178	0.1988	0.1850	0.558	4504	0.0812	0.0758	0.0722	0.632
3304	0.4629	0.4232	0.3944	0.561	4601	0.5336	0.4824	0.4447	0.525
3309	0.3257	0.2990	0.2798	0.576	4802	0.1896	0.1717	0.1586	0.531
3401	0.3333	0.2997	0.2749	0.511	4803	0.1700	0.1564	0.1470	0.586
3402	0.3595	0.3277	0.3047	0.557	4804	0.4453	0.4075	0.3803	0.565
3403	0.1729	0.1537	0.1394	0.471	4805	0.2532	0.2294	0.2120	0.532
3404	0.3567	0.3267	0.3054	0.573	4806	0.0477	0.0431	0.0397	0.523
3405	0.1988	0.1809	0.1681	0.555	4808	0.3828	0.3425	0.3124	0.493
3406	0.2062	0.1886	0.1759	0.565	4809	0.2186	0.2022	0.1907	0.604
3407	0.3156	0.2877	0.2675	0.559	4810	0.1190	0.1085	0.1009	0.548
3408	0.0992	0.0903	0.0837	0.546	4811	0.1909	0.1760	0.1656	0.591
3409	0.0892	0.0825	0.0777	0.601	4812	0.2751	0.2502	0.2321	0.549
3410	0.1791	0.1654	0.1558	0.593	4813	0.1545	0.1393	0.1282	0.514
3411	0.3333	0.2997	0.2749	0.511	4900	0.3833	0.3397	0.3070	0.464
3412	0.3445	0.3109	0.2861	0.525	4901	0.0466	0.0421	0.0390	0.536
3413	0.4197	0.3816	0.3539	0.549	4902	0.0630	0.0577	0.0539	0.571
3414	0.4156	0.3749	0.3449	0.521	4903	0.0515	0.0470	0.0438	0.563
3415	0.4580	0.4135	0.3806	0.524	4904	0.0238	0.0219	0.0206	0.583
3501	0.7601	0.6742	0.6092	0.462	4905	0.2525	0.2331	0.2194	0.592
3503	0.2389	0.2218	0.2098	0.605	4906	0.0681	0.0622	0.0581	0.569

Class	1995	1996	1997	D-Ratio	Class	1995	1996	1997	D-Ratio
4907	0.0525	0.0476	0.0441	0.537	6502	0.0236	0.0214	0.0199	0.549
4908	0.1045	0.0986	0.0952	0.656	6503	0.0577	0.0516	0.0472	0.499
4909	0.0464	0.0433	0.0412	0.612	6504	0.3230	0.2998	0.2837	0.608
4910	0.3248	0.2956	0.2746	0.550	6505	0.0863	0.0787	0.0733	0.549
5001	3.9466	3.4100	2.9976	0.380	6506	0.0692	0.0629	0.0618	0.547
5002	0.4206	0.3829	0.3555	0.555	6508	0.2871	0.2610	0.2420	0.541
5003	1.2397	1.0758	0.9504	0.393	6509	0.2274	0.2079	0.1939	0.560
5004	1.0961	0.9780	0.8894	0.481	6510	0.2871	0.2610	0.2420	0.541
5005	0.8641	0.7536	0.6689	0.409	6511	0.2871	0.2610	0.2420	0.541
5006	1.2281	1.0758	0.9595	0.426	6601	0.1553	0.1429	0.1342	0.582
5101	0.6779	0.6288	0.5945	0.613	6602	0.3700	0.3385	0.3157	0.565
5103	0.6406	0.5904	0.5549	0.589	6603	0.2822	0.2565	0.2378	0.545
5106	0.6406	0.5904	0.5549	0.589	6604	0.0537	0.0483	0.0443	0.503
5108	0.4938	0.4505	0.4195	0.559	6605	0.2652	0.2526	0.2449	0.693
5109	0.5713	0.5075	0.4598	0.471	6607	0.1312	0.1215	0.1145	0.602
5201	0.2645	0.2399	0.2220	0.544	6608	0.2675	0.2382	0.2161	0.480
5204	0.7193	0.6418	0.5841	0.485	6620	1.2146	1.1144	1.0427	0.582
5206	0.3833	0.3397	0.3070	0.464	6704	0.0983	0.0902	0.0844	0.576
5207	0.1368	0.1283	0.1228	0.646	6705	0.6228	0.5814	0.5536	0.630
5208	0.7123	0.6414	0.5893	0.517	6706	0.3268	0.3004	0.2819	0.577
5209	0.6010	0.5434	0.5011	0.530	6707	1.3699	1.2678	1.1966	0.602
5301	0.0270	0.0247	0.0232	0.575	6708	5.5217	4.9151	4.4626	0.459
5305	0.0420	0.0393	0.0375	0.642	6709	0.1644	0.1543	0.1476	0.646
5306	0.0386	0.0354	0.0330	0.565	6801	0.2210	0.2018	0.1880	0.567
5307	0.2856	0.2601	0.2416	0.556	6802	0.3454	0.3198	0.3023	0.604
6103	0.0627	0.0583	0.0554	0.620	6803	0.6935	0.5942	0.5184	0.353
6104	0.2255	0.2089	0.1975	0.610	6804	0.1761	0.1623	0.1526	0.595
6105	0.1610	0.1459	0.1349	0.536	6809	4.0833	3.7922	3.5938	0.608
6107	0.0943	0.0873	0.0824	0.599	6901	0.0402	0.0392	0.0390	0.741
6108	0.3669	0.3389	0.3192	0.596	6902	0.6820	0.5929	0.5247	0.401
6109	0.0582	0.0527	0.0486	0.527	6903	3.9732	3.3781	2.9254	0.327
6110	0.3305	0.3002	0.2781	0.543	6904	0.1904	0.1765	0.1666	0.615
6201	0.2556	0.2291	0.2095	0.503	6905	0.2352	0.2167	0.2036	0.594
6202	0.5204	0.4667	0.4269	0.497	6906	0.1102	0.1059	0.1038	0.688
6203	0.0657	0.0618	0.0593	0.656	6907	0.9003	0.8184	0.7584	0.548
6204	0.1319	0.1221	0.1154	0.606	6908	0.4165	0.3788	0.3515	0.550
6205	0.1817	0.1676	0.1577	0.594	6909	0.0880	0.0812	0.0763	0.594
6206	0.1575	0.1455	0.1371	0.597	7002	0.0000	0.0000	0.0000	0.500
6207	1.1722	1.0818	1.0180	0.585	7101	0.0255	0.0230	0.0209	0.490
6208	0.2372	0.2165	0.2018	0.549	7102	3.2856	3.0428	2.8758	0.590
6209	0.2095	0.1930	0.1814	0.587	7103	0.2707	0.2437	0.2237	0.515
6301	0.1180	0.1038	0.0932	0.440	7104	0.0214	0.0198	0.0187	0.603
6302	0.1411	0.1274	0.1173	0.519	7105	0.0208	0.0193	0.0184	0.625
6303	0.0401	0.0534	0.0493	0.524	7106	0.1272	0.1164	0.1088	0.569
6304	0.1739	0.1620	0.1679	0.622	7107	0.2158	0.1991	0.1874	0.594
6305	0.0647	0.0598	0.0583	0.595	7108	0.1756	0.1648	0.1577	0.648
6306	0.1355	0.1931	0.1813	0.587	7109	0.1353	0.1255	0.1186	0.607
6308	0.0460	0.0421	0.0393	0.568	7110	0.2618	0.2337	0.2127	0.488
6309	0.1141	0.1048	0.1137	0.579	7111	0.3417	0.3117	0.2899	0.555
6402	0.2154	0.1992	0.1948	0.604	7112	0.4854	0.4440	0.4141	0.567
6403	0.1400	0.1280	0.1367	0.559	7113	0.4865	0.4435	0.4127	0.559
6404	0.1526	0.1411	0.1395	0.597	7114	0.6096	0.5749	0.5526	0.664
6405	0.3415	0.4355	0.3991	0.507	7115	0.4298	0.3973	0.3748	0.604
6406	0.0579	0.0542	0.0553	0.641	7116	0.4121	0.3746	0.3472	0.543
6407	0.1242	0.1745	0.1629	0.565	7117	0.8708	0.8079	0.7634	0.611
6408	0.2664	0.2461	0.2317	0.600	7118	1.3687	1.2527	1.1704	0.571
6409	0.4197	0.3816	0.3539	0.549	7119	1.5742	1.4433	1.3492	0.579
6410	0.1482	0.1342	0.1242	0.533	7120	4.1969	3.7761	3.4668	0.509
6501	0.0913	0.0853	0.0812	0.639	7121	4.2770	3.8504	3.5356	0.513

Class	1995	1996	1997	D-Ratio
7201	0.8348	0.7550	0.6959	0.536
7202	0.0366	0.0327	0.0298	0.485
7203	0.1063	0.0976	0.0915	0.571
7204	0.0000	0.0000	0.0000	0.500
7301	0.4684	0.4190	0.3821	0.494
7302	0.5614	0.5123	0.4768	0.556
7307	0.4842	0.4451	0.4174	0.580
7308	0.1944	0.1821	0.1740	0.639
7309	0.1644	0.1543	0.1476	0.646

Expected Loss Rates in Dollars Per Sq. Ft. of Wallboard Installed

Class	1995	1996	1997	D-Ratio
0522	0.0185	0.0161	0.0143	0.407
0523	0.0120	0.0104	0.0093	0.414
0524	0.0115	0.0101	0.0090	0.441
0525	0.0081	0.0070	0.0063	0.420
0526	0.0071	0.0063	0.0055	0.406
0527	0.0005	0.0004	0.0004	0.364
0528	0.0018	0.0016	0.0014	0.416
0529	0.0012	0.0011	0.0010	0.410
0530	0.0166	0.0144	0.0128	0.403
0531	0.0108	0.0094	0.0083	0.414
0532	0.0009	0.0008	0.0006	0.403
0533	0.0028	0.0025	0.0022	0.401
0534	0.0018	0.0016	0.0014	0.416
7900	0.0127	0.0110	0.0099	0.408
7901	0.0078	0.0068	0.0061	0.415

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-885, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-885, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-885, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-885, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-885, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-885, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-885, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-885, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-885, filed 11/27/91, effective 1/1/92; 91-12-014, § 296-17-885, filed 5/31/91, effective 7/1/91; 90-24-042, § 296-17-885, filed 11/30/90, effective 1/1/91; 90-13-018, § 296-17-885, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-885, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-885, filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-885, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-885, filed 5/31/88; 88-12-050 (Order 88-06), § 296-17-885, filed 5/31/88, effective 7/1/88; 88-06-047 (Order 87-33), § 296-17-885, filed 3/1/88; 87-24-060 (Order 87-26), § 296-17-885, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-885, filed 5/29/87, effective 7/1/87. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-885, filed 11/26/86. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-885, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-885, filed 11/27/85, effective 1/1/86; 85-06-026 (Order 85-7), § 296-17-885, filed 2/28/85, effective 4/1/85; 84-24-016 (Order 84-23), § 296-17-885, filed 11/28/84, effective 1/1/85; 83-24-017 (Order 83-36), § 296-17-885, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-885, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-885, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-885, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-885, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-885, filed 11/27/78, effective 1/1/79, effective 1/1/80. Order 77-27, § 296-17-885, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-885, filed 12/1/77; Order 77-10, § 296-17-885, filed 5/31/77; Order 76-36, § 296-17-885, filed 11/30/76; Order 76-18, § 296-17-885, filed 5/28/76, effective 7/1/76; Order 75-38, § 296-17-885, filed 11/24/75, effective 1/1/76; Order 74-40, § 296-17-885, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-885, filed 11/9/73, effective 1/1/74.]

WAC 296-17-890 Table IV.

Maximum experience modifications for firms with no compensable accidents:

Expected Loss Range			Maximum Experience Modification
2,383 & Lower			0.90
2,384	-	2,550	0.89
2,551	-	2,730	0.88
2,731	-	2,925	0.87
2,926	-	3,137	0.86
3,138	-	3,367	0.85
3,368	-	3,617	0.84
3,618	-	3,888	0.83
3,889	-	4,184	0.82
4,185	-	4,506	0.81
4,507	-	4,858	0.80
4,859	-	5,241	0.79
5,242	-	5,661	0.78
5,662	-	6,121	0.77
6,122	-	6,625	0.76
6,626	-	7,177	0.75
7,178	-	7,784	0.74
7,785	-	8,452	0.73
8,453	-	9,188	0.72
9,189	-	10,000	0.71
10,001	-	10,896	0.70
10,897	-	11,888	0.69
11,889	-	12,986	0.68
12,987	-	14,205	0.67
14,206	-	15,559	0.66
15,560	-	17,067	0.65
17,068	-	18,747	0.64
18,748	-	20,623	0.63
20,624	-	22,723	0.62
22,724	-	25,075	0.61
25,076 & Higher			0.60

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-890, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-890, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-890, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-890, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-890, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-890, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-890, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-890, filed 11/27/91, effective 1/1/92; 90-24-042, § 296-17-890, filed 11/30/90, effective 1/1/91; 89-24-051 (Order 89-22), § 296-17-890, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-890, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 87-24-060 (Order 87-26), § 296-17-890, filed 12/1/87, effective 1/1/88. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-890, filed 11/26/86. Statutory Authority: RCW 51.16.035. 85-24-032 (Order 85-33), § 296-17-890, filed 11/27/85, effective 1/1/86; 84-24-016 (Order 84-23), § 296-17-890, filed 11/28/84, effective 1/1/85; 83-24-017 (Order 83-36), § 296-17-890, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-890, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-890, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-890, filed

11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-890, filed 11/30/79, effective 1/1/80.]

WAC 296-17-895 Industrial insurance accident fund base rates and medical aid base rates by class of industry. Industrial insurance accident fund and medical aid fund base rates by class of industry shall be as set forth below.

Class	Base Rates Effective January 1, 1999 Accident Fund	Medical Aid Fund
0101	1.5203	0.4584
0103	1.7561	0.5816
0104	1.0744	0.3380
0105	1.2392	0.5152
0107	1.2724	0.3893
0108	1.0744	0.3380
0112	0.7012	0.2552
0201	3.0120	0.8173
0202	3.0120	0.8173
0210	0.9815	0.3077
0212	0.9933	0.3155
0214	1.2178	0.3955
0217	1.2946	0.4373
0219	1.1908	0.3957
0301	0.6081	0.2879
0302	2.1719	0.5481
0303	1.9927	0.5514
0306	1.1049	0.3435
0307	0.7890	0.2955
0308	0.5297	0.2582
0403	1.4958	0.5961
0502	1.5896	0.4618
0504	1.4679	0.5049
0506	4.6762	1.4043
0507	3.4005	1.1975
0508	3.6793	0.9062
0509	1.8957	0.5981
0510	1.5063	0.5304
0511	1.2412	0.4448
0512	1.4816	0.4997
0513	0.7619	0.2629
0514	1.3096	0.5473
0516	1.5063	0.5304
0517	1.6510	0.6797
0518	1.9184	0.5365
0519	1.8909	0.7171
0521	1.4291	0.4755
0601	0.5971	0.2294
0602	0.4516	0.1728
0603	0.9792	0.2926
0604	1.0582	0.4854
0606	0.2767	0.1511
0607	0.3588	0.1526
0608	0.2626	0.1306
0701	2.4974	0.4790
0803	0.3504	0.1577
0901	1.9184	0.5365
1002	0.7639	0.3433
1003	0.7629	0.3390
1004	0.5042	0.2030
1005	7.1860	2.0386
1007	0.3495	0.1312
1101	0.5047	0.2462
1102	1.3476	0.4593
1103	0.6578	0.2642
1104	0.3701	0.2211
1105	0.7115	0.3190
1106	0.2557	0.1589
1108	0.4199	0.2054
1109	0.7200	0.3846
1301	0.4049	0.1876
1303	0.1613	0.0752
1304	0.0207	0.0111
1305	0.3775	0.1867
1401	0.5209	0.2533
1404	0.5319	0.2240
1405	0.3558	0.1799
1501	0.3975	0.1713
1507	0.3663	0.1628
1701	0.7029	0.2878
1702	1.8741	0.5600
1703	0.3520	0.1272
1704	0.7029	0.2878
1801	0.9120	0.3213
1802	0.8596	0.3418
2002	0.5378	0.2826
2004	0.5669	0.2970
2007	0.4514	0.2051
2008	0.2520	0.1205
2009	0.2807	0.1638
2101	0.5813	0.2643
2102	0.3815	0.2122
2104	0.2157	0.1358
2105	0.5967	0.2422
2106	0.2938	0.1605
2201	0.2248	0.1060
2202	0.4890	0.2433
2203	0.2899	0.1616
2204	0.2129	0.1004
2401	0.3235	0.1977
2903	0.5774	0.3081
2904	0.6584	0.3437
2905	0.4303	0.2356
2906	0.3282	0.1463
2907	0.4717	0.2366
2908	0.8793	0.3852
2909	0.3658	0.1987
3101	0.7236	0.2792
3102	0.2230	0.1134
3103	0.7667	0.3178
3104	0.5417	0.1904
3105	0.7318	0.3418

Class	Base Rates Effective January 1, 1999 Accident Fund	Medical Aid Fund
3303	0.2251	0.1205
3304	0.4615	0.2676
3309	0.3293	0.1871
3402	0.3921	0.1869
3403	0.1892	0.0852
3404	0.3737	0.1962
3405	0.2161	0.1032
3406	0.2115	0.1155
3407	0.3543	0.1584
3408	0.1022	0.0549
3409	0.0896	0.0521
3410	0.1656	0.1127
3411	0.3697	0.1651
3412	0.3910	0.1668
3413	0.4638	0.2137
3414	0.4553	0.2106
3415	0.5064	0.2301
3501	0.8562	0.3604
3503	0.2067	0.1602
3506	1.0930	0.2933
3509	0.3364	0.1845
3510	0.3685	0.1893
3511	0.5354	0.2768
3512	0.3007	0.1925
3513	0.3685	0.2005
3602	0.0981	0.0618
3603	0.4283	0.2295
3604	1.1141	0.5536
3605	0.4356	0.2013
3701	0.2230	0.1134
3702	0.3745	0.1836
3707	0.4379	0.2981
3708	0.3985	0.1997
3802	0.1497	0.0839
3808	0.3566	0.1584
3901	0.1246	0.0908
3902	0.3378	0.1828
3903	0.9803	0.5866
3905	0.1246	0.0908
3906	0.3952	0.1983
3909	0.1436	0.0917
4002	0.9166	0.3348
4101	0.2160	0.1118
4103	0.2227	0.1364
4107	0.1189	0.0660
4108	0.1468	0.0728
4109	0.1999	0.1074
4201	0.4525	0.1518
4301	0.6507	0.3593
4302	0.5417	0.2179
4304	0.6216	0.3142
4305	0.8822	0.3475
4401	0.3756	0.1990
4402	0.6147	0.3191
4404	0.3501	0.1823
4501	0.1209	0.0713
4502	0.0388	0.0211
4504	0.0761	0.0512
4601	0.5567	0.2881
4802	0.1956	0.1041
4803	0.1647	0.1020
4804	0.4430	0.2581
4805	0.2582	0.1406
4806	0.0472	0.0272
4808	0.4268	0.1868
4809	0.2226	0.1261
4810	0.1075	0.0748
4811	0.1826	0.1163
4812	0.2942	0.1458
4813	0.1514	0.0888
4900	0.4505	0.1698
4901	0.0518	0.0233
4902	0.0684	0.0333
4903	0.0563	0.0267
4904	0.0233	0.0141
4905	0.2339	0.1586
4906	0.0724	0.0367
4907	0.0538	0.0290
4908	0.0600	0.0890
4909	0.0293	0.0375
4910	0.3354	0.1794
5001	5.0974	1.3877
5002	0.4712	0.2110
5003	1.5547	0.4681
5004	1.1885	0.5519
5005	1.0777	0.3344
5006	1.5419	0.4746
5101	0.6905	0.3926
5103	0.6268	0.3820
5106	0.6268	0.3820
5108	0.5083	0.2741
5109	0.6538	0.2649
5201	0.2988	0.1302
5204	0.8059	0.3468
5206	0.4505	0.1698
5207	0.1224	0.0905
5208	0.7941	0.3516
5209	0.6687	0.3001
5301	0.0272	0.0154
5305	0.0415	0.0254
5306	0.0391	0.0220
5307	0.3216	0.1426
6103	0.0559	0.0411
6104	0.2279	0.1315
6105	0.1706	0.0856
6107	0.0834	0.0615
6108	0.3524	0.2233
6109	0.0612	0.0312
6110	0.3495	0.1773
6201	0.2944	0.1195

Class	Base Rates Effective January 1, 1999 Accident Fund	Medical Aid Fund
6202	0.5352	0.2814
6203	0.0563	0.0450
6204	0.1244	0.0818
6205	0.1818	0.1062
6206	0.1574	0.0923
6207	0.9789	0.7988
6208	0.1943	0.1610
6209	0.1950	0.1304
6301	0.1365	0.0528
6302	0.1398	0.0802
6303	0.0604	0.0326
6304	0.1737	0.1221
6305	0.0628	0.0416
6306	0.2153	0.1189
6308	0.0472	0.0258
6309	0.1271	0.0793
6402	0.2376	0.1230
6403	0.1474	0.0999
6404	0.1529	0.0982
6405	0.5284	0.2453
6406	0.0581	0.0393
6407	0.1880	0.1115
6408	0.2845	0.1457
6409	0.4638	0.2137
6410	0.1474	0.0843
6501	0.0962	0.0517
6502	0.0237	0.0134
6503	0.0679	0.0259
6504	0.2831	0.2138
6505	0.0765	0.0551
6506	0.0702	0.0435
6508	0.2839	0.1657
6509	0.2175	0.1367
6510	0.2925	0.1685
6511	0.2925	0.1685
6601	0.1457	0.0959
6602	0.3823	0.2063
6603	0.2920	0.1548
6604	0.0497	0.0323
6605	0.2233	0.1878
6607	0.1281	0.0789
6608	0.3166	0.1185
6614	642.0000*	432.0000*
6615	236.0000*	158.0000*
6616	200.0000*	134.0000*
6617	71.0000*	48.0000*
6618	89.0000*	60.0000*
6620	1.4333	0.6288
6704	0.0976	0.0572
6705	0.5642	0.4053
6706	0.2936	0.2089
6707	1.3170	0.8361
6708	4.5520	3.6000
6709	0.1473	0.1088
6801	0.2491	0.1103
6802	0.3230	0.2157
6803	0.8957	0.2366
6804	0.1857	0.0971
6809	3.3699	2.8255
6901	0.0000	0.0464
6902	0.8703	0.2499
6903	5.1134	1.3322
6904	0.2155	0.0976
6905	0.2545	0.1260
6906	0.0000	0.1260
6907	1.0104	0.4501
6908	0.4571	0.2141
6909	0.0893	0.0506
7002	0.0000	0.0000
7101	0.0254	0.0143
7102	2.2096	2.5571
7103	0.3072	0.1307
7104	0.0199	0.0135
7105	0.0197	0.0129
7106	0.1296	0.0719
7107	0.2133	0.1276
7108	0.1583	0.1155
7109	0.1232	0.0867
7110	0.2981	0.1235
7111	0.3503	0.1912
7112	0.5197	0.2596
7113	0.5302	0.2529
7114	0.5520	0.4031
7115	0.4436	0.2438
7116	0.4249	0.2276
7117	0.8839	0.5078
7118	1.4517	0.7396
7119	1.7754	0.7946
7120	4.3170	2.2787
7121	4.5816	2.2210
7201	1.0205	0.3646
7202	0.0389	0.0190
7203	0.0905	0.0708
7204	0.0000	0.0000
7301	0.5283	0.2247
7302	0.5680	0.3184
7307	0.4746	0.2869
7308	0.1686	0.1315
7309	0.1473	0.1088

* These rates are calculated on a per license basis for parimutuel race tracks and are base rated.

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-895, filed 12/1/98, effective 1/1/99. Statutory Authority: RCW 51.16.035. 98-18-042, § 296-17-895, filed 8/28/98, effective 10/1/98. Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 97-24-062, § 296-17-895, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-895, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.16.035. 96-12-039, § 296-17-895, filed 5/31/96, effective 7/1/96. Statutory Authority: RCW 51.16.035 and 51.32.073. 96-06-025, § 296-17-895, filed 2/28/96, effective 4/1/96. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-895, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-895, filed 11/28/94, effective 1/1/95. Statutory Authority: RCW 51.04.020(1) and

51.16.035. 94-12-051, § 296-17-895, filed 5/27/94, effective 7/1/94. Statutory Authority: RCW 51.04.020. 93-24-114, § 296-17-895, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 93-12-093, § 296-17-895, filed 5/31/93, effective 7/1/93; 92-24-063, § 296-17-895, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-895, filed 11/27/91, effective 1/1/92; 91-12-014, § 296-17-895, filed 5/31/91, effective 7/1/91; 90-24-042, § 296-17-895, filed 11/30/90, effective 1/1/91; 90-13-018, § 296-17-895, filed 6/8/90, effective 7/9/90; 89-24-051 (Order 89-22), § 296-17-895, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020(1). 89-16-001 (Order 89-07), § 296-17-895, filed 7/20/89, effective 8/20/89. Statutory Authority: RCW 51.16.035 and 51.04.020. 88-24-012 (Order 88-30), § 296-17-895, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 88-12-065 (Order 88-05), § 296-17-895, filed 5/31/88; 88-12-050 (Order 88-06), § 296-17-895, filed 5/31/88, effective 7/1/88; 88-06-047 (Order 87-33), § 296-17-895, filed 3/1/88; 87-24-060 (Order 87-26), § 296-17-895, filed 12/1/87, effective 1/1/88; 87-12-032 (Order 87-12), § 296-17-895, filed 5/29/87, effective 7/1/87. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 86-24-042 (Order 86-41), § 296-17-895, filed 11/26/86. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-895, filed 5/30/86, effective 7/1/86; 85-24-032 (Order 85-33), § 296-17-895, filed 11/27/85, effective 1/1/86; 85-13-046 (Order 85-13), § 296-17-895, filed 6/17/85; 85-06-026 (Order 85-7), § 296-17-895, filed 2/28/85, effective 4/1/85; 84-24-016 (Order 84-23), § 296-17-895, filed 11/28/84, effective 1/1/85. Statutory Authority: RCW 51.04.020(1). 84-12-048 (Order 84-12), § 296-17-895, filed 6/1/84. Statutory Authority: RCW 51.16.035. 83-24-017 (Order 83-36), § 296-17-895, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-895, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-895, filed 11/30/81, effective 1/1/82; 81-04-024 (Order 81-02), § 296-17-895, filed 1/30/81; 80-17-016 (Order 80-23), § 296-17-895, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-895, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-895, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-895, filed 11/30/77, effective 1/1/78; Emergency Order 77-25, § 296-17-895, filed 12/1/77; Order 77-10, § 296-17-895, filed 5/31/77; Order 76-36, § 296-17-895, filed 11/30/76; Order 76-18, § 296-17-895, filed 5/28/76, effective 7/1/76; Order 75-38, § 296-17-895, filed 11/24/75, effective 1/1/76; Order 75-28, § 296-17-895, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-895, filed 11/27/74, effective 1/1/75; Order 73-22, § 296-17-895, filed 11/9/73, effective 1/1/74.]

WAC 296-17-89502 Industrial insurance accident fund, medical aid and supplemental pension rates by class of industry for nonhourly rated classifications. The base rates as set forth below are for classifications whose premium rates are based on units other than hours worked.

Base Rates Effective
January 1, 1999

Class	Accident Fund	Medical Aid Fund	Supplemental Pension Fund
0524	0.0149	0.0042	0.0004
0526	0.0093	0.0025	0.0004
0527	0.0007	0.0002	0.0001
0528	0.0024	0.0007	0.0001
0529	0.0016	0.0004	0.0001
0530	0.0216	0.0058	0.0004
0531	0.0142	0.0038	0.0004
0532	0.0011	0.0003	0.0001
0533	0.0036	0.0011	0.0001
0534	0.0024	0.0007	0.0001

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-89502, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-89502, filed 12/1/97, effective 1/1/98; 97-12-011, § 296-17-89502, filed 5/27/97, effective 7/1/97; 97-06-007, § 296-17-89502, filed 2/24/97, effective 4/1/97.]

WAC 296-17-900 Premium discounts. In providing a rate modification system consistent with recognized insurance principles, the department may, in addition to the experience rating plan, provide a premium discount plan which recognizes the differences in administrative expense to the department in collecting premiums from employers based on differences in their premium volume.

[Order 73-22, § 296-17-900, filed 11/9/73, effective 1/1/74.]

WAC 296-17-90100 Purpose. The department shall provide for a five percent workers' compensation premium discount for qualified employers certified by the division of alcohol and substance abuse of the department of social and health services as meeting the criteria for a drug-free workplace.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90100, filed 8/29/96, effective 9/29/96.]

WAC 296-17-90110 Definitions. (1) An "employer" is defined as any individual or entity subject to Title 51 RCW excluding the state or any department, agency, or instrumentality of the state, any county, any city, any school district or educational service district, municipal corporation or employer qualifying as self insured.

(2) A premium discount is a reduction of premium, of a specified amount or percentage, which is earned by meeting certain requirements, such as, but not necessarily limited to, participation in a pilot program or initiative, agreement to alternative premium reporting and payment procedures, and/or adopting loss control initiatives not required of all employers.

Premium adjustments under rating systems such as experience rating and retrospective rating, which have a wide range of potential outcomes, and which may either increase or decrease premiums depending on the outcome, are not premium discounts.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90110, filed 8/29/96, effective 9/29/96.]

WAC 296-17-90120 Qualifications for drug-free workplace discount. (1) Employers must maintain all industrial insurance accounts in good standing with the department, such that at the time of certification and for the duration of the certification period, no outstanding premium, penalties, or assessments are due and quarterly reporting of payroll has been made in accordance with WAC 296-17-310. The department may at its discretion, determine that an employer is in good standing if the employer and the department agree upon a payment schedule or other arrangements satisfactory to the department for payment of the outstanding debt. Final determination of an employer's eligibility to participate in this discount program under this section rests with the department subject to review under chapter 51.52 RCW.

(2) An employer may not receive more than one premium discount. If participating in more than one program involving premium discounts, an employer will receive only the largest individual discount.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90120, filed 8/29/96, effective 9/29/96.]

WAC 296-17-90130 Application of drug-free workplace discount. The premium discount will be applied by reducing the accident fund and medical aid premium rates by five percent.

Employers who are certified will have their five percent discount become effective with the quarter following the quarter in which such certification occurs. For example: An employer who is certified on September 20, 1996, will have his or her first discount available for the fourth quarter of 1996, to be taken in conjunction with his/her workers' compensation quarterly premium report filed on or before January 31, 1997.

The premium discount shall remain in effect as long as the employer remains certified, for a period not to exceed three years. It shall be the employer's responsibility to obtain certification for each year in which a premium discount is granted.

Retrospective rating refunds or assessments involving employers receiving the five percent drug-free workplace discount shall be based on the discounted premium.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90130, filed 8/29/96, effective 9/29/96.]

WAC 296-17-90140 Drug-free workplace discount certification. Employers who fail to maintain certification in the program or maintain industrial insurance obligations in good standing for any part of a calendar quarter and subject to decertification, shall be liable for the premium discount payable retroactive to the beginning of that quarter. In the event of retroactive decertification, unless the decertification was caused through no fault of the employer, the employer shall remit to the department any premium discount previously received for the decertification period. Amounts payable shall be subject to the penalties and interest provided for in RCW 51.48.210.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90140, filed 8/29/96, effective 9/29/96.]

WAC 296-17-90150 Maximum program cap for drug-free workplace discount. The aggregate amount of the premium discount, shall not exceed five million dollars in any given fiscal year. Once the "cap" is reached, qualifications and enrollment in this discount program shall be suspended until such time as the aggregate premium discount amount falls below the five million dollar threshold. The enrollment will be reopened at any point that the five million dollar threshold is not being attained.

In the event the five million dollar cap is reached and the program is suspended, the department shall establish a waiting list of employers. Employers shall be placed on the list based on date of certification.

[Statutory Authority: 1996 c 127 § 13. 96-18-040, § 296-17-90150, filed 8/29/96, effective 9/29/96.]

WAC 296-17-905 Dividends. Periodically, the department shall determine the total liability existing against the accident fund. If, after such determination, the department finds the accident fund, aside from the reserves deemed actuarially necessary according to recognized insurance principles, contains a surplus, the director, in his/her discretion may declare a dividend to be paid to, or credited to the accounts of, employers who were insured with the department during all or part of the period for which the dividend is declared, according to a uniform formula to be promulgated by the department. Any dividends so declared shall give due consideration to the solvency of the accident fund, not be unfairly discriminatory, and not be promised in advance of such declaration. An employer in default when the dividend is declared shall not be eligible to receive payment as provided by this section but credit will be made towards reducing the employer's obligation to the department.

[Statutory Authority: RCW 51.16.035. 84-06-024 (Order 84-2), § 296-17-905, filed 2/29/84, effective 7/1/84; 81-04-024 (Order 81-02), § 296-17-905, filed 1/30/81; Order 73-22, § 296-17-905, filed 11/9/73, effective 1/1/74.]

WAC 296-17-907 Dividend declarations and distributions. Dividends, if any, will be declared approximately fifteen months after the conclusion of the coverage period with credit or payment made within sixty days of the calculation. No dividend checks will be written for less than ten dollars.

Adjustments to the dividend calculation due to clerical errors will be made if reported to the department within ninety days of the payments. No subsequent adjustments will be made.

[Statutory Authority: RCW 51.16.035. 81-04-024 (Order 81-02), § 296-17-907, filed 1/30/81.]

WAC 296-17-91201 Introduction. Washington Administrative Code (WAC) 296-17-91201 through 296-17-91406 and 296-17-919 contains the general rules applicable to the department's voluntary retrospective rating program. We refer to these rules (WACs) as sections and the complete body of information as the retrospective rating manual. The retrospective rating manual contains sections (WACs) that define or explain:

- Words or phrases which we use;
- The steps you must take to participate in the program;
- How group plans are authorized;
- Why members of a group must be involved in similar business operations;
- The need to have an insurance account with the department and keep it in good standing in order to participate in this voluntary rating plan;
- Workplace safety requirements of the plan;
- Formulas used to establish retrospective premium;
- Premium size tables;
- Plan tables.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91201, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91202 Definitions. In developing the general reporting rules and tables for retrospective rating, we have used certain words or phrases that could have several meanings. Appendix A of this manual contains a list of words or phrases defined by law (Title 51 RCW). To reduce misunderstandings which can result by our use of certain words or phrases not defined in law (Title 51 RCW), we have developed definitions which will govern what these words or

phrases mean for purposes of the retrospective rating program.

Account in good standing: The term "account" means an individual employer's industrial insurance account and related subaccounts, or a group's retrospective rating account. For an account to be in good standing, the employer and/or group must have submitted all of the required reports and paid all industrial insurance premium payments, assessments, penalties and interest when due and on time. This requirement also includes other fees, fines, penalties and assessments established by the department such as safety violations and computer access fees. An account may be deemed to be in good standing if the employer or group (organization) is current with a repayment agreement with the department.

Adjustment: The process of calculating retrospective premium, and any resulting refunds or assessments. For the first adjustment of a coverage period, retrospective premium is compared to the standard premium due. The difference will be refunded if the retrospective premium is lower than the standard premium due. You will be assessed the difference if the retrospective premium is higher than the standard premium due. In subsequent adjustments of the coverage period, the new retrospective premium is compared to the prior retrospective premium to determine the amount of refund or assessment.

Basic premium ratio (BPR): A component of the retrospective rating premium formula, the BPR represents the portion of standard premium that covers administrative costs (except claims handling) and an insurance charge which enables us to limit your retrospective premium requirement. BPRs can be found in WAC 296-17-91402 through 296-17-91406.

Case reserve: The department's estimate of cost associated with a specific claim over the lifetime of the claim.

Coverage period: A twelve-month period beginning January 1 and ending December 31, or April 1 through March 31, or July 1 through June 30, or October 1 through September 30. Only claims with a date-of-injury within the selected coverage period and standard premium due for the same coverage period are used to calculate retrospective premium. The coverage period is selected by the group or individually enrolled employer.

Developed losses, a.k.a. total incurred losses (developed): A component of the retrospective rating premium formula. Based on historical trends we know that the total incurred losses for open claims in a coverage period tend to increase over time. This can be the result of claim reopenings, changes in time loss duration, increased medical utilization, etc. The developed losses computation anticipates and distributes these increases among all the participants in a coverage period. Developed losses for pension claims are determined by multiplying their incurred losses by the applicable performance adjustment factor. For nonpension claims, developed losses are determined by multiplying their incurred losses by the applicable loss development factors.

Evaluation date: The date selected by the department in which incurred losses for applicable claims are measured and captured for the purpose of calculating retrospective premium. Changes in incurred losses that occur after an evaluation date will not be considered until the next applicable evaluation date. The initial evaluation date is between nine and ten months after the coverage period ends. The next evaluation will occur twelve months later. If you elect an optional third and fourth year adjustment the evaluation date will occur in twelve month intervals. The evaluation date is also referred to as a "freeze date."

Freeze date: See evaluation date.

Group: Employer members of an organization who have agreed to have their retrospective premium calculated using the combined applicable standard premium and related loss data of the participants as a whole.

Homogeneity: An insurance term used to denote a similarity between two or more business risks. Although it is rare that any two businesses will be identical, similar businesses have similar exposure to occupational injury and disease.

Incurred losses: A term we use to denote a cost component of a claim. For open claims, incurred losses are the total of costs paid-to-date which have been assigned to a given employer account, or the case reserve established by the department, whichever is greater. For closed claims, incurred losses are the total of costs paid-to-date which have been assigned to a given employer account, regardless of any case reserve that may have been established.

Loss conversion factor (LCF): A component of the retrospective premium formula, the LCF represents an expense charge for claims handling and the present value of developed losses. LCFs can be found in WAC 296-17-91402 through 296-17-91406.

Loss development factor (LDF): LDFs are actuarially determined factors that are multiplied by incurred losses of nonpension retro claims to produce developed losses. LDFs are unique to each coverage period, but are the same for every nonpension retro claim in the coverage period. They are periodically recalculated. LDFs shown on retro reports have already been adjusted by the applicable performance adjustment factor.

Loss ratio: The numerical result when dividing developed losses by standard premium.

Maximum premium ratio (MPR): A factor preselected by the organization (group) or individually enrolled employer that determines the maximum retrospective premium requirement for a given coverage period. MPRs can be found in WAC 296-17-91402 through 296-17-91406.

Minimum premium ratio (MnPR): For plans A1, A2 and A3, an actuarially determined factor that determines the minimum retrospective premium requirement for a given coverage period. MnPRs can be found in WAC 296-17-91404 through 296-17-91406.

Pension claim: A claim designated as a fatality or total permanent disability.

Performance adjustment factor (PAF): An actuarially determined factor unique to each retro coverage period which ensures that aggregate refunds are proportional to the relative performance of retro versus nonretro state fund employers.

Plan: A numeric table developed by the department used to calculate the retrospective premium requirement of a group or individually enrolled employer. A group or individually enrolled employer preselects one of five plans (A, A1, A2, A3 or B). The chosen plan will determine (along with the MPR and standard premium) which basic premium ratio, loss

conversion factor and minimum premium ratio will be used to calculate the group or individually enrolled employer retrospective premium requirement.

Premium: Money paid (due) from an employer for workers' compensation insurance. It does not include money paid as fees, fines, penalties or deposits.

Retrospective premium: The net premium for a group or individually enrolled employer after an adjustment for a given coverage period, using the formulas and provisions found in WAC 296-17-914, 296-17-91402 through 296-17-91406 and 296-17-919.

Standard premium: The total accident fund and medical aid fund premiums paid (due) by a group or individually enrolled employer for a given coverage period. The supplemental pension assessment portion of total premiums due (paid) is not included. If the group includes employers subject to the staggered enrollment provision of the retrospective rating rules, the standard premium is the total premiums due (paid) for the calendar months in which they have been accepted into a group.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91202, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91203 Can you give me an overview of the retrospective rating program? Retrospective rating is a voluntary program offered by the department to a qualified employer or group of employers that insure their workers' compensation insurance obligations with the state fund. It offers financial incentives to participants to reduce their workers' compensation claim costs. Reductions in workers' compensation claim costs are accomplished in part through employer or group sponsored safety and accident prevention programs and effective claims management practices. The criteria that must be met to be considered a "qualified employer" can be found in WAC 296-17-91204. Qualified employers that enroll in an individual or group retrospective rating plan must participate in the program through the end of a coverage period if their account remains active. The department allows an organization sponsoring a group plan to enroll new employer members into their group on a quarterly basis. We refer to this as a staggered enrollment. Because of this feature, participation for employers in a group plan can be as short as three months or as long as twelve months. All retrospective rating participants agree to be subject to the provisions of the rules contained in the retrospective rating manual. Final determination of employer or group eligibility, account in good standing, evaluation of incurred losses and such other matters covered by the rules contained in the retrospective rating manual rest with the department. An organization may request in writing that a member be removed from a group plan during a coverage period. The organization must set forth the reasons why the member should be removed from the group plan. The department may grant the removal request only in instances where the member of the organization has been convicted of criminal activities or civil infractions related to business practices of the member such as underpayment of taxes to any governmental agency, violation of environmental laws, theft of government managed resources such as timber, or willful violation of safety and health standards. Department determinations applicable to the retrospective rating program are subject to review under RCW 51.52.060.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91203, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91204 I understand that there are specific requirements that an employer must meet before they can participate in either individual or group retrospective rating. Can you tell me what these requirements are? Yes. The requirements are:

(1) Any employer that wishes to participate in the retrospective rating program must have an industrial insurance account with the department.

(2) Each employer's account must be in good standing at the time of enrollment.

(3) The department may require the posting of a surety bond or other security deposit. If so, it will be executed on forms authorized by the department and be in one thousand dollar increments. The surety bond or security deposit requirement will be based on the difference between the participants' estimated standard premium and the maximum premium due under the applicable retrospective rating plan. In the event that surety bond or security deposit requirement falls within two increment ranges, the bond will be at the higher increment level. The surety bond or security deposit must be in full force and effect for the entire coverage and the related adjustment periods.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91204, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91205 I understand that there are specific prerequisites that an organization must meet to sponsor a retrospective rating group plan. Can you tell me what these requirements are? Yes. Before further consideration can be given to an organization's request to sponsor a retrospective rating group plan they must meet all the following requirements in addition to any other requirements contained in the retrospective rating manual.

(1) The organization must have been in existence for at least two years.

(a) To validate this, the organization must provide the department with copies of its articles of incorporation, bylaws and marketing/membership applications or similar material, accompanied with an affidavit certifying that the documents are true and the information contained in the documents is accurate as of the date of submittal.

(b) The department will verify this information through contacts with various state, local and federal agencies and other businesses.

(2) The organization must have been formed for purposes other than sponsoring a group plan and participating in the department's retrospective rating program.

(a) The department will verify the purpose(s) of the organization from the information contained in the articles of incorporation, bylaws, contracts and/or advertising material of the organization.

(b) Since the enhancement of workplace safety for the group is a principal requirement of the retrospective rating program, an organization, which at the time of a request for certification offers services which are limited to risk manage-

ment, safety, loss control, claims administration or insurance will be deemed to be set up for the sole purpose of participating in the retrospective rating program and will not qualify to participate in this program.

(3) Employer members of the proposed retrospective rating group must be dues paying members of the organization. We recognize that some organizations may be funded through member donations and not dues. The intent of this requirement is that the members of the organization be current members as opposed to potential members. Where an organization's members do not pay dues the organization must provide a list of its current members and a written explanation of how member contributions are determined.

(a) An organization seeking to sponsor a group retrospective rating plan must submit a complete list of its current membership to the department accompanied with an affidavit certifying the list to be true and accurate as of the date of submittal.

(b) Each employer member that wants to participate in the organization's retrospective rating group plan must be in good standing with the organization and the department.

(c) Each employer member that wants to participate in the organization's retrospective rating group plan must provide us with a written request on a form provided by the department. Completion and submission of this application to the department signifies the employer's desire to participate in the organization's retrospective rating group plan if it is approved. The proposed retrospective rating group plan membership list must be submitted with the group application of the organization and the other material listed in subsection (2) of this section.

(4) The organization's industrial insurance account and retrospective rating account must be in good standing at all times, including the application process and the coverage and adjustment periods.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91205, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91206 Are there other qualifying requirements that an organization must satisfy once the preliminary requirements have been met? An organization seeking to sponsor a retrospective rating group must submit a written plan which demonstrates to the department's satisfaction that the formation of the group will substantially improve workplace safety, accident prevention and claims management for the employers in the group. An organization whose retrospective rating group is required to pay additional net premium assessments in two consecutive coverage periods will be placed on probationary status. If the organization is required to pay an additional premium assessment in the third consecutive coverage period, they will be denied future enrollment in the program until they can demonstrate that the deficiencies that led to the additional assessments have been corrected.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91206, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91207 I have several businesses that have been combined for experience rating purposes because of common majority ownership. They still report and pay premiums using separate sub-accounts. If I want to participate in retrospective rating, do I need to enroll all of my businesses or can I enroll some and not the others?

(1) Because an employer might manipulate their company's safety record by use of multiple industrial insurance accounts, employers enrolling a particular account in either an individual or group plan must enroll all businesses that they own or have a controlling interest whose nature of business is substantially the same. A controlling interest is defined as more than fifty percent ownership by one or more owners.

(2) If you have several businesses which are dissimilar to each other when the nature of the service is considered, you may elect to have all of the businesses covered under a retrospective rating plan or just one or more of the businesses.

Example: You operate a chain of ten grocery stores. Each store is operated at a different location. You have requested that each store be assigned a special account. In addition to the ten stores, your company also has a separate administrative office. This office reports under the clerical classification. Under subsection (1) of this section you must enroll all of your store locations if you are to participate in a retrospective rating plan. You may elect to include your administrative office under subsection (2) of this section.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91207, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91208 Is there a requirement for employer members of an organization to be engaged in substantially similar businesses to participate in the organization's group plan? (1) Yes. Once we have determined that the organization at the time of certification exists:

(a) For purposes other than sponsoring a group and participating in the department's retrospective rating program;

(b) Has been in existence with members for over two years; and

(c) Will serve to encourage improvements in work place safety and effective claims management practices, we will verify that the occupations or industries of the employer members of the organization are substantially similar.

(2) The first step in this process is for the organization to select the retrospective rating group plan(s) it wishes to sponsor from a single general industry/business group from the table below:

Industry/business group table

- Agriculture and related services.
- Automotive, truck and boat - manufacturing, sales, repair and related services.
- Construction and related services.
- Distillation, chemicals, food and related services.
- Facilities, property management, maintenance and related services.
- Government, utilities, schools, healthcare and related services.
- Healthcare, pharmaceutical, laboratories and related services.
- Logging and wood products manufacturing and related services.

- Manufacturing - and related services.
- Retail and wholesale stores and professional services such as banks and law firms and related services.
- Temporary help services.
- Transportation, recycle, warehousing, facility maintenance and related services.

The intent of this process is to ensure that the homogeneity requirement of RCW 51.16.035 is met. This is accomplished by requiring an organization to select a single industry/business group from which it will form its group or groups. Whether the organization sponsors one group or multiple groups they must be within the same industry/business grouping.

Example: An organization that was formed to advance the interests of apple growers would select the agriculture and related services business/industry group plan. This organization could sponsor a single group for all its grower members or could offer different performance groups for its grower members.

(3) To simplify administration and keep to a minimum the administrative costs associated with devising a different classification system for the retrospective rating program, the retrospective rating program follows the same classification procedure established by the department to assign workers' compensation insurance classifications to an employer (WAC 296-17-31012). This procedure requires employers to be assigned a classification or series of classifications based on the nature of their business, not the occupations or duties of the workers they employ. Only those members whose business undertakings are substantially similar to the industry/business group selected by the organization will be permitted to participate. This grouping technique is fundamental to workers' compensation insurance and is referred to as "homogeneity of risk."

Example: Having selected the agriculture and related services business/industry grouping the department would verify that the employer members of the apple grower organization were either apple growers or were involved in a related service such as an apple processing operation owned by the grower.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91208, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91209 Do all organization members enrolled in a retrospective rating group plan have to report within one classification? No. Although it might be desirable for all members of the retrospective rating group to be covered under a single common classification, that approach would not be practical since most employers have more than one classification under which they report and pay premiums. We do, however, require that the members of the organization participating in the group be engaged in substantially similar businesses. An otherwise qualifying account which has additional risk classifications not authorized for the group can still be permitted to enroll with the group. This assumes that the organization agrees to the added risks as a part of their group plan. Under no circumstance does this provision allow an organization to market their plan to existing members and or prospective members that report in these heterogeneous classifications.

Example: An employer operates an apple orchard and a separate car repair business. This employer could request an organization sponsoring an agricultural group to include the car repair business in their group provided their agricultural (apple orchard) was also enrolled. The organization sponsoring the agricultural and related services group could not enroll a car repair business in their group if the employer member did not also have an agricultural business also enrolled in the group plan.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91209, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91210 Can you tell me how the authorized classifications for a retrospective rating group plan are determined? Yes, the authorized classification or classifications of a group is determined from an analysis of an organization's current dues paying membership that have submitted applications to participate in the plan. This analysis consists of evaluating the nature of each current dues paying member's business and the risk classification(s) that our underwriters have assigned to those businesses. The department may also rely on information obtained from applicable field audit and classification inspection reports. Only those individual current dues-paying members of an organization or members described in WAC 296-17-91205(3) that are homogeneous (substantially similar) will be considered in determining the classifications authorized for the organization's retrospective rating group. This analysis ensures compliance with the requirement (RCW 51.16.035) that the industries of employers in an organization are substantially similar.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91210, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91211 After a retrospective rating group plan has been authorized a classification or classifications, can an organization be allowed additional classifications at a later date? The department may authorize an existing retrospective rating group to obtain additional classifications under the following circumstances:

(1) The department has created a new classification which is substantially similar to the nature of the business or businesses authorized for the group;

Example (a): Several years ago the department covered all forms of logging under a single logging classification. Changes in technology created new methods of logging leading to a new emerging industry of mechanized logging. To address this change the department created a new classification to cover this form of logging. If a retrospective rating group which included the general logging industry wanted employers assigned the new mechanized logging classification in their group, they could request the addition of this classification and the department would in this case grant approval.

(2) Changes in technology, materials, processes or industry practices if they are substantially similar to the over-

all process and nature of the business or businesses authorized for the group; or

Example (b): Consider a homeowner that wants to have a deck built onto their house. A few years ago the homeowner's choices were limited to wood products. As technology has changed, and new products were developed, the homeowner is now provided a number of options such as polymer based composites. These new products are installed in much the same way as wood decking. Assume the new product is cut, handled and stacked in the same way as wood decking. A retrospective rating group involved in wood products manufacturing could be authorized the classification related to this manufacturing process based on a change related to technology.

(3) Changes in market conditions provided the overall scope of service has not changed.

Example (c): A farmer that has historically been engaged in growing hops learns that the market conditions for this crop make it necessary for the farmer to diversify to another crop or livestock. Assume this grower participates in a narrow based organization that was not authorized the classification for the other crop or livestock. This organization could request the additional classification.

The organization must petition the department for the additional classification(s). The request must be in writing and include detail as to how the new classification(s) are substantially similar to others currently assigned to the group. The request and recommendation(s) proposed by the department will be available for public review and comment. This will be done on the same day either before or after the regular business meeting of the retro advisory committee. Information and comments presented by the public at the meeting will be considered by the department prior to final determination. Final approval of classifications rests with the department. Determinations applicable to the retrospective rating program are subject to review under RCW 51.52.060.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91211, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91212 Does an organization have to reapply each year for authorized classifications applicable to their retrospective rating group plan? (1) Once the department approves a classification or a series of classifications for an organization's retrospective rating group, no further reapplication is necessary. Exceptions to this policy are noted in subsections (2) and (3) of this section.

(2) The department will review the past reporting of an organization's retrospective rating group members annually. If we discover a classification or series of classifications under which no worker hours were reported during the prior fiscal year (ending June 30) by the group members, we will remove the classification from the group. The organization can apply to have the classification reinstated if they have members reporting in the classification or classifications in the previous and current year.

(3) New groups formed on or after July 1, 1999, will be required to present their written request for approval to the department. The request and recommendation(s) proposed by the department will be available for public review and comment. This will be done on the same day either before or after the regular business meeting of the retro advisory committee. Information and comments presented by the public at the meeting will be considered by the department prior to final determination. Final approval rests with the department. Department determinations applicable to the retrospective rating program are subject to review under RCW 51.52.060 .

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91212, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91213 The department has approved our organization to sponsor a retrospective rating group. Is there an application process that we must follow? Yes. Your next step would be to complete an application for group retrospective rating on forms provided by the department for the proposed group. A copy of this application can be found in Appendix A of this manual.

The application must be received by us on or before:

- April 30 for the coverage period beginning the following July 1;
- July 31 for the coverage period beginning the following October 1;
- October 31 for the coverage period beginning the following January 1; and
- January 31 for the coverage period beginning the following April 1.

When you complete this application you will need to select the maximum premium ratio and plan (A, A1, A2, A3, or B) that will apply to the group for the coverage period. You should consider the benefits and risk of each plan and maximum premium ratio in making this selection. Plan and maximum premium ratio choices can not be changed after the deadline listed above. If the agreement is submitted by fax by the deadline, an agreement with an original signature must be received by the department prior to the beginning of the coverage period. In the event that an application with an original signature is not received by the beginning of the coverage period you will not be enrolled in the program.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91213, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91214 What is the next step after the organization has submitted this application? (1) To enroll, each dues-paying employer member of your organization that completed a written request provided for in WAC 296-17-91205 (3)(c) must complete a group membership application/employer's authorization and release of insurance data. A copy of the application can be found in Appendix A of this manual. Other qualifying members of your organization who want to enroll in your group must complete the same application. The completed application/releases for the accounts the organization wishes to enroll in the group must be received by the department by the 15th calendar day of the month prior to the selected coverage period.

Example: You have selected the coverage period beginning July 1. We must receive all group membership applications on or before June 15.

(2) An officer or designated representative of your organization must complete, sign and forward to us an original retrospective rating group agreement. A copy of this agreement can be found in Appendix A of this manual. This completed form must be received by us by the 15th calendar day of the month prior to the selected coverage period.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91214, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91215 Is there an application process to enroll in an individual retrospective rating plan? Yes. You must complete a retrospective rating plan agreement on forms provided by the department, listing each account or subaccount to be enrolled. A copy of this agreement can be found in Appendix A of this manual. This completed form must be received by us by the 15th calendar day of the month prior to the selected coverage period. If the agreement is submitted by fax by the deadline, an agreement with an original signature must be received by the department prior to the beginning of the coverage period. In the event that an application with an original signature is not received by the beginning of the coverage period you will not be enrolled in the program. When you complete this agreement you will need to select the maximum premium ratio and plan (A, A1, A2, A3, or B) that you wish to participate in. You should consider the benefits and risk of each plan and maximum premium ratio in making this selection. Plan and maximum premium ratio choices can not be changed after the coverage period begins.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91215, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91216 Can you tell me what happens at the end of a coverage period? (1) The initial evaluation date will occur between nine and ten months after the end of the coverage period. All future evaluation dates for a coverage period will take place approximately twelve months after the initial evaluation date.

Example: Assume that your coverage period began July 1, 1998, and ended June 30, 1999, (twelve calendar months). Our first evaluation date would occur mid-April 2000. This is roughly nine and one-half months from the last day of the coverage period. Because all retrospective rating plans have two mandatory evaluation dates we would do the second evaluation twelve months later.

(2) On the evaluation date, all claims with a date-of-injury within the coverage period are evaluated and the incurred losses which have been established for these claims are "captured" or "frozen."

(3) For occupational disease claims where multiple employer responsibility has been established, prorated incurred losses will be captured.

(4) Because our evaluation is limited to claim status and type, and not the adjudicative decisions surrounding a claim such as, but not limited to, claim allowance, case reserve, wage determination and dependent status; retrospective rating program appeals that concern claims are limited to the open or closed status of a claim on the evaluation date. If you are in disagreement with the department over an adjudicative or reserving issue you must appeal that decision at the appropriate time. We can not provide relief in the computation of the retrospective premium unless the disagreement (protest or appeal) produces relief prior to the evaluation date.

(5) In the event that the disagreement is over the open status of a specific claim and we determine that all of the information necessary to close the claim was in the department's possession at the time of the evaluation date, we will recalculate the retrospective premium requirement and refund the additional premium or reduce the assessment as applicable.

(6) In the adjustment process, captured incurred losses are translated into developed losses using the appropriate loss development and performance adjustment factors. Retrospective premium is then calculated using the requisite formulas and tables in the retrospective rating manual.

(7) The loss value for any one claim or group of claims arising from a single accident shall be limited to a maximum of five hundred thousand dollars prior to the application of the performance adjustment factor.

(8) For a given coverage period, each group or individually enrolled employer is subject to two mandatory adjustments. The initial adjustment will occur approximately ten months after the coverage period, with any subsequent adjustments occurring in twelve-month intervals. A group or individually enrolled employer can elect a package of two additional adjustments if the request is made within thirty days of the second mandatory adjustment. A group or individually enrolled employer may request an extension of sixty additional days to evaluate the potential impact of electing the two additional adjustments. The request for extension must be received by the department prior to the last day of the initial thirty-day election period.

(9) For claims with injury dates prior to July 1, 1996, a potential claim cost recovery from action against a third party, either by an injured worker or by the department, shall not be considered in the evaluation of incurred losses until the third-party action has been completed. For claims with injury dates after July 1, 1996, if the department determines that there is a reasonable potential of recovery from an action against a third-party, the incurred loss shall be reduced by fifty percent while the third-party action is pending. Regardless of the final outcome of the third-party action, the incurred loss will not be reevaluated after the final retrospective rating adjustment.

(10) For a third-party action completed before the final adjustment, the claim shall be credited with the department's net share of the recovery, after deducting attorney fees, if the action is completed prior to July 1, 1996. If a third-party action is competed on or after July 1, 1996, the claim shall be credited with the department's gross share of the recovery, before deducting attorney fees.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91216, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91219 If I am successful in reducing my workers' compensation insurance costs, and you inform me that I am entitled to a refund, when will I get the refund? Approximately eleven months after the coverage period has ended we will notify you if you are entitled to a refund of premium or owe us additional premium. Our notifi-

cation will also include instructions on how to request reconsideration of the amount of the refund or assessment. We will not issue a refund check for under ten dollars. If a refund is less than ten dollars we will credit the amount to your industrial insurance account and you can deduct the amount from your next premium payment.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91219, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91220 Do you establish how the refund is to be distributed to members of a group? No. We are not involved in how the premium refund is distributed. The distribution of any refund is determined by the organization that sponsored the group. We will, however, withhold the pro rata share of any member whose account is not in good standing, up to the amount owed by the member for the coverage period. Any moneys withheld will be deposited into the insurance trust funds and credited to the member's industrial insurance account. If you are enrolled individually and owe us money, we will apply your refund to the amount you owe. In the event that your refund is greater than the amount you owe us, we will refund the difference to you.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91220, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91221 If a group is subject to an additional assessment, does the department bill each member of the group for their share? No. Just as we do not determine how a refund is to be distributed to members of a group, we are not concerned with how an additional assessment is distributed to members of a group. We hold the organization responsible for any additional assessment.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91221, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91222 If a group or individually enrolled employer owes money related to a retrospective rating adjustment, when is it due? All additional assessments resulting from a retrospective rating adjustment are due within thirty days of the date we communicate the decision to you. If you disagree with the assessment you should either protest or appeal the decision. Make sure you do this in writing within thirty days of the date we communicate the decision to you. If you fail to do so our decision is final and binding on you.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91222, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91223 If I am in a dispute with the department over an assessment, claim cost or moneys alleged to be owed to the department, can I participate in the retrospective rating program? If you are in a dispute with the department over an assessment, claim cost or owe the department any moneys, you cannot participate in the retrospective rating program unless you provide a surety bond or security deposit in lieu of the payment pending the outcome of the disagreement. If you have paid the amount covered by the disagreement and it is resolved in your favor, we will refund these moneys. We will not pay interest on this money.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91223, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91224 Are employers required to share retrospective rating refunds with their workers? No. Retrospective rating refunds are paid out of the accident fund. Accident fund premiums are paid exclusively by employers. Since employees do not pay or contribute towards accident fund premiums employers are not obligated to return any of the retro refund to workers. Similarly, employers cannot charge retrospective rating assessments to their workers.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91224, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91225 Can an organization be disqualified from sponsoring a retrospective rating group? Yes. If an organization or its officers are convicted of criminal or civil infractions related to the business practices of the organization such as under payment of taxes to any governmental agency; violation of environmental laws; theft of government managed resources such as timber; willful violation of safety and health standards they will lose eligibility to sponsor a retro group plan. The disqualification will take place within thirty days of our formal notice to the organization. Department determinations applicable to the retrospective rating program are subject to review under RCW 51.52.060.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91225, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91250 Limitation of liability indemnification. With the exception of the required authorization for release of insurance data and group membership enrollment application for each employer account to be enrolled, the department disclaims interest in contracts executed between employer groups and participating group members. The department neither approves nor disapproves of any language contained therein and shall be held harmless for misrepresentation of fact(s) or errors of omission or commission stated in the terms of said contract. The department is released and exempt from liability for any dispute or cause of action between an employer group and participating group members or amongst participating group members arising under the contract.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91250, filed 11/30/98, effective 1/1/99.]

WAC 296-17-914 How is retrospective premium calculated? (1) Retrospective premium for a group or individually enrolled employer is calculated using the formula:

Retrospective Premium = (Basic Premium Ratio x Standard Premium + (Loss Conversion Factor x Developed Losses).

Applicable basic premium ratios and loss conversion factors are found in WAC 296-17-91402 through 296-17-91406, depending on the preselected plan, maximum premium ratio and standard premium.

(2) The maximum retrospective premium is the product of the maximum premium ratio times the standard premium. If the retrospective premium formula produces a value

greater than the maximum retrospective premium, the retrospective premium shall be reduced to the maximum retrospective premium.

(3) For plans A1, A2, and A3, the minimum retrospective premium is the product of the minimum premium ratio times the standard premium. If the retrospective premium formula produces a value less than the minimum retrospective premium, the retrospective premium shall be increased to the minimum retrospective premium.

(4) Under plan A, an employer enrolled in an individual plan or an organization sponsoring a group may elect to forego the protection of a maximum premium ratio if its financial condition is sufficiently strong and stable so that it could qualify as a self-insurer under the department's certification guidelines. The basic premium ratio will be .058 if the employer/group selects and qualifies for an unlimited maximum retrospective premium.

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-914, filed 11/30/98, effective 1/1/99. Statutory Authority: RCW 51.04.020. 95-06-069, § 296-17-914, filed 3/1/95, effective 4/10/95. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 88-24-010 (Order 88-26), § 296-17-914, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-914, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-914, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-914, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-914, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-914, filed 2/10/82; 81-04-024 (Order 81-02), § 296-17-914, filed 1/30/81.]

WAC 296-17-91402 Table II.

RETROSPECTIVE RATING PLAN A
BASIC PREMIUM RATIOS
LOSS CONVERSION FACTOR =.729
Effective January 1, 1998

Maximum Premium Ratio:	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group														
63	.907	.856	.820	.791	.766	.745	.725	.708	.692	.677	.649	.625	.602	.563
62	.902	.850	.813	.783	.757	.735	.715	.698	.681	.666	.638	.612	.590	.550
61	.897	.844	.805	.774	.748	.726	.705	.687	.670	.654	.625	.600	.577	.536
60	.892	.838	.798	.766	.739	.716	.695	.676	.658	.642	.613	.587	.563	.522
59	.888	.831	.790	.758	.730	.706	.684	.665	.647	.630	.600	.574	.550	.508
58	.883	.825	.783	.749	.720	.696	.674	.654	.635	.618	.588	.561	.537	.495
57	.878	.818	.775	.740	.711	.686	.663	.643	.624	.607	.576	.548	.524	.482
56	.872	.810	.766	.731	.701	.675	.652	.631	.612	.594	.563	.535	.511	.468
55	.865	.802	.757	.721	.690	.664	.640	.619	.599	.582	.550	.522	.497	.455
54	.858	.794	.747	.710	.679	.652	.628	.607	.587	.569	.537	.509	.484	.442
53	.851	.785	.738	.700	.668	.641	.616	.595	.575	.556	.524	.496	.471	.429
52	.843	.776	.728	.690	.657	.629	.605	.582	.562	.544	.511	.483	.458	.417
51	.836	.767	.718	.679	.646	.618	.592	.570	.550	.531	.498	.470	.446	.405
50	.828	.758	.708	.668	.634	.605	.580	.557	.537	.518	.485	.457	.432	.392
49	.821	.748	.697	.656	.622	.593	.567	.544	.524	.505	.472	.444	.419	.379
48	.813	.739	.686	.645	.610	.581	.555	.531	.511	.492	.459	.431	.406	.367
47	.804	.729	.675	.633	.598	.568	.542	.519	.498	.479	.446	.418	.394	.355
46	.796	.718	.663	.620	.584	.554	.528	.505	.484	.465	.433	.406	.382	.344
45	.787	.707	.650	.607	.571	.541	.514	.491	.471	.452	.420	.394	.371	.334
44	.778	.695	.638	.594	.557	.527	.501	.478	.458	.440	.408	.382	.360	.324
43	.768	.683	.625	.580	.544	.514	.488	.465	.445	.427	.396	.371	.349	.314
42	.758	.671	.612	.567	.530	.500	.474	.451	.431	.413	.383	.357	.336	.301
41	.748	.659	.599	.554	.517	.486	.460	.437	.417	.399	.368	.343	.322	.288
40	.737	.647	.586	.540	.503	.472	.446	.423	.403	.385	.355	.330	.309	.276
39	.726	.635	.573	.526	.489	.458	.432	.409	.389	.372	.342	.317	.296	.264
38	.714	.622	.560	.513	.476	.445	.418	.396	.376	.359	.329	.305	.284	.252
37	.702	.608	.546	.499	.462	.431	.405	.383	.363	.346	.317	.293	.273	.242
36	.688	.594	.532	.485	.448	.417	.392	.369	.350	.333	.304	.281	.262	.231
35	.673	.578	.516	.469	.433	.402	.377	.355	.336	.320	.292	.269	.250	.221
34	.657	.562	.500	.454	.418	.388	.363	.342	.323	.307	.280	.258	.240	.211
33	.640	.546	.484	.439	.403	.374	.349	.329	.310	.295	.268	.247	.229	.202
32	.623	.529	.468	.424	.389	.360	.336	.316	.298	.283	.257	.237	.220	.193
31	.607	.512	.452	.408	.373	.345	.322	.302	.285	.270	.246	.226	.210	.185
30	.589	.495	.435	.392	.358	.331	.308	.289	.273	.259	.235	.216	.201	.178
29	.571	.478	.419	.377	.344	.317	.295	.277	.261	.247	.225	.207	.193	.171
28	.553	.461	.403	.361	.329	.303	.282	.264	.248	.235	.213	.195	.181	.160
27	.537	.446	.388	.346	.314	.288	.267	.248	.233	.219	.197	.179	.165	.143
26	.521	.430	.373	.331	.299	.273	.252	.234	.218	.205	.183	.165	.151	.129
25	.504	.414	.358	.317	.285	.259	.238	.220	.205	.192	.170	.152	.138	.117
24	.482	.394	.339	.300	.269	.245	.225	.208	.194	.181	.161	.145	.132	.113
23	.460	.374	.321	.283	.254	.231	.213	.197	.184	.172	.153	.138	.127	.109
22	.437	.355	.304	.268	.241	.219	.201	.187	.174	.163	.146	.132	.121	.105
21	.414	.336	.288	.254	.228	.208	.191	.177	.166	.156	.139	.127	.117	.102
20	.394	.318	.272	.239	.214	.194	.179	.166	.155	.145	.130	.119	.110	.096
19	.377	.301	.254	.222	.198	.179	.164	.152	.142	.133	.120	.109	.101	.089

Maximum Premium Ratio:	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
18	.358	.283	.238	.207	.184	.166	.152	.140	.131	.123	.110	.101	.094	.083
17	.339	.266	.222	.192	.171	.154	.140	.130	.121	.114	.103	.094	.088	.079
16	.320	.249	.208	.179	.159	.143	.131	.121	.113	.106	.096	.088	.083	.075
15	.303	.234	.194	.168	.148	.134	.122	.113	.106	.100	.091	.084	.079	.072
14	.293	.220	.180	.157	.141	.128	.117	.109	.103	.097	.089	.082	.078	.071
13	.281	.204	.167	.148	.133	.122	.112	.105	.099	.094	.086	.081	.076	.070
12	.269	.187	.156	.139	.126	.116	.108	.101	.096	.091	.084	.079	.075	.069
11	.254	.167	.145	.130	.119	.110	.103	.097	.092	.088	.082	.077	.073	.068
10	.238	.150	.135	.122	.113	.105	.098	.093	.089	.085	.079	.075	.072	.067
9	.219	.138	.125	.115	.106	.100	.094	.089	.085	.082	.077	.073	.071	.066
8	.197	.127	.116	.107	.100	.094	.090	.086	.082	.079	.075	.072	.069	.065
7	.170	.117	.108	.100	.094	.089	.085	.082	.079	.077	.073	.070	.068	.064
6	.137	.107	.100	.094	.089	.085	.081	.078	.076	.074	.071	.068	.066	.064
5	.105	.098	.092	.087	.083	.080	.077	.075	.073	.071	.068	.066	.065	.063
4	.096	.089	.084	.081	.078	.076	.074	.072	.070	.068	.066	.065	.064	.063

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91402, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91403 Table III.

RETROSPECTIVE RATING PLAN B
BASIC PREMIUM RATIOS
AND LOSS CONVERSION FACTORS
Effective January 1, 1998

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
63	Basic Premium Ratio	.993	.986	.979	.972	.965	.958	.951	.944	.938	.931	.917	.903	.889	.861
	Loss Conversion Factor	.007	.014	.021	.028	.035	.042	.049	.056	.062	.069	.083	.097	.111	.139
62	Basic Premium Ratio	.992	.985	.977	.970	.962	.954	.947	.939	.931	.924	.909	.893	.878	.848
	Loss Conversion Factor	.008	.015	.023	.030	.038	.046	.053	.061	.069	.076	.091	.107	.122	.152
61	Basic Premium Ratio	.992	.983	.975	.967	.959	.950	.942	.934	.926	.917	.901	.884	.868	.835
	Loss Conversion Factor	.008	.017	.025	.033	.041	.050	.058	.066	.074	.083	.099	.116	.132	.165
60	Basic Premium Ratio	.991	.982	.973	.964	.955	.946	.937	.928	.919	.910	.892	.874	.856	.819
	Loss Conversion Factor	.009	.018	.027	.036	.045	.054	.063	.072	.081	.090	.108	.126	.144	.181
59	Basic Premium Ratio	.990	.980	.971	.961	.951	.941	.931	.921	.912	.902	.882	.862	.843	.803
	Loss Conversion Factor	.010	.020	.029	.039	.049	.059	.069	.079	.088	.098	.118	.138	.157	.197
58	Basic Premium Ratio	.989	.979	.968	.957	.947	.936	.926	.915	.904	.894	.872	.851	.830	.787
	Loss Conversion Factor	.011	.021	.032	.043	.053	.064	.074	.085	.096	.106	.128	.149	.170	.213
57	Basic Premium Ratio	.989	.977	.966	.954	.943	.931	.920	.908	.897	.886	.863	.840	.817	.771
	Loss Conversion Factor	.011	.023	.034	.046	.057	.069	.080	.092	.103	.114	.137	.160	.183	.229
56	Basic Premium Ratio	.988	.976	.963	.951	.939	.927	.914	.902	.890	.878	.853	.829	.805	.756
	Loss Conversion Factor	.012	.024	.037	.049	.061	.073	.086	.098	.110	.122	.147	.171	.195	.244
55	Basic Premium Ratio	.987	.974	.961	.948	.935	.922	.909	.896	.883	.870	.844	.818	.792	.741
	Loss Conversion Factor	.013	.026	.039	.052	.065	.078	.091	.104	.117	.130	.156	.182	.208	.259
54	Basic Premium Ratio	.986	.972	.959	.945	.931	.917	.904	.890	.876	.862	.835	.807	.780	.724
	Loss Conversion Factor	.014	.028	.041	.055	.069	.083	.096	.110	.124	.138	.165	.193	.220	.276
53	Basic Premium Ratio	.985	.971	.956	.941	.927	.912	.898	.883	.868	.854	.824	.795	.766	.707
	Loss Conversion Factor	.015	.029	.044	.059	.073	.088	.102	.117	.132	.146	.176	.205	.234	.293
52	Basic Premium Ratio	.984	.969	.953	.938	.922	.907	.891	.876	.860	.845	.814	.783	.752	.690
	Loss Conversion Factor	.016	.031	.047	.062	.078	.093	.109	.124	.140	.155	.186	.217	.248	.310
51	Basic Premium Ratio	.983	.967	.950	.934	.917	.901	.884	.868	.851	.835	.802	.769	.735	.669
	Loss Conversion Factor	.017	.033	.050	.066	.083	.099	.116	.132	.149	.165	.198	.231	.265	.331
50	Basic Premium Ratio	.982	.965	.947	.929	.911	.894	.876	.858	.841	.823	.787	.752	.717	.646
	Loss Conversion Factor	.018	.035	.053	.071	.089	.106	.124	.142	.159	.177	.213	.248	.283	.354
49	Basic Premium Ratio	.981	.962	.943	.924	.905	.886	.867	.848	.829	.810	.772	.734	.696	.621
	Loss Conversion Factor	.019	.038	.057	.076	.095	.114	.133	.152	.171	.190	.228	.266	.304	.379

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
48	Basic Premium Ratio	.980	.959	.939	.919	.898	.878	.858	.837	.817	.797	.756	.716	.675	.594
	Loss Conversion Factor	.020	.041	.061	.081	.102	.122	.142	.163	.183	.203	.244	.284	.325	.406
47	Basic Premium Ratio	.978	.957	.935	.913	.891	.870	.848	.826	.805	.783	.740	.696	.653	.566
	Loss Conversion Factor	.022	.043	.065	.087	.109	.130	.152	.174	.195	.217	.260	.304	.347	.434
46	Basic Premium Ratio	.977	.954	.931	.908	.885	.862	.839	.816	.793	.770	.724	.677	.631	.539
	Loss Conversion Factor	.023	.046	.069	.092	.115	.138	.161	.184	.207	.230	.276	.323	.369	.461
45	Basic Premium Ratio	.976	.951	.927	.902	.878	.854	.829	.805	.780	.756	.707	.658	.609	.512
	Loss Conversion Factor	.024	.049	.073	.098	.122	.146	.171	.195	.220	.244	.293	.342	.391	.488
44	Basic Premium Ratio	.974	.948	.922	.897	.871	.845	.819	.793	.767	.742	.690	.638	.587	.483
	Loss Conversion Factor	.026	.052	.078	.103	.129	.155	.181	.207	.233	.258	.310	.362	.413	.517
43	Basic Premium Ratio	.973	.945	.918	.891	.863	.836	.809	.781	.754	.727	.672	.617	.562	.453
	Loss Conversion Factor	.027	.055	.082	.109	.137	.164	.191	.219	.246	.273	.328	.383	.438	.547
42	Basic Premium Ratio	.970	.941	.911	.881	.852	.822	.792	.763	.733	.703	.644	.585	.525	.406
	Loss Conversion Factor	.030	.059	.089	.119	.148	.178	.208	.237	.267	.297	.356	.415	.475	.594
41	Basic Premium Ratio	.968	.935	.903	.870	.838	.806	.773	.741	.708	.676	.611	.546	.481	.352
	Loss Conversion Factor	.032	.065	.097	.130	.162	.194	.227	.259	.292	.324	.389	.454	.519	.648
40	Basic Premium Ratio	.965	.929	.894	.859	.823	.788	.753	.718	.682	.647	.576	.506	.435	.294
	Loss Conversion Factor	.035	.071	.106	.141	.177	.212	.247	.282	.318	.353	.424	.494	.565	.706
39	Basic Premium Ratio	.962	.923	.885	.847	.808	.770	.732	.693	.655	.616	.540	.463	.386	.233
	Loss Conversion Factor	.038	.077	.115	.153	.192	.230	.268	.307	.345	.384	.460	.537	.614	.767
38	Basic Premium Ratio	.958	.917	.875	.834	.792	.751	.709	.668	.626	.585	.502	.419	.336	.170
	Loss Conversion Factor	.042	.083	.125	.166	.208	.249	.291	.332	.374	.415	.498	.581	.664	.830
37	Basic Premium Ratio	.955	.910	.865	.820	.776	.731	.686	.641	.596	.551	.461	.371	.282	.102
	Loss Conversion Factor	.045	.090	.135	.180	.224	.269	.314	.359	.404	.449	.539	.629	.718	.898
36	Basic Premium Ratio	.951	.903	.854	.806	.757	.709	.660	.612	.563	.514	.417	.320	.223	.029
	Loss Conversion Factor	.049	.097	.146	.194	.243	.291	.340	.388	.437	.486	.583	.680	.777	.971
35	Basic Premium Ratio	.947	.895	.842	.789	.736	.684	.631	.578	.525	.473	.367	.262	.156	.000
	Loss Conversion Factor	.053	.105	.158	.211	.264	.316	.369	.422	.475	.527	.633	.738	.844	.987
34	Basic Premium Ratio	.943	.886	.829	.771	.714	.657	.600	.543	.486	.428	.314	.200	.085	.000
	Loss Conversion Factor	.057	.114	.171	.229	.286	.343	.400	.457	.514	.572	.686	.800	.915	.969
33	Basic Premium Ratio	.938	.876	.814	.752	.690	.628	.567	.505	.443	.381	.257	.133	.009	.000
	Loss Conversion Factor	.062	.124	.186	.248	.310	.372	.433	.495	.557	.619	.743	.867	.991	.953
32	Basic Premium Ratio	.933	.866	.799	.732	.665	.598	.531	.463	.396	.329	.195	.061	.000	.000
	Loss Conversion Factor	.067	.134	.201	.268	.335	.402	.469	.537	.604	.671	.805	.939	.984	.939
31	Basic Premium Ratio	.927	.854	.781	.707	.634	.561	.488	.415	.342	.268	.122	.000	.000	.000
	Loss Conversion Factor	.073	.146	.219	.293	.366	.439	.512	.585	.658	.732	.878	.994	.965	.925
30	Basic Premium Ratio	.920	.840	.760	.680	.600	.520	.440	.360	.280	.200	.040	.000	.000	.000
	Loss Conversion Factor	.080	.160	.240	.320	.400	.480	.560	.640	.720	.800	.960	.975	.949	.913
29	Basic Premium Ratio	.913	.826	.739	.651	.564	.477	.390	.303	.216	.128	.000	.000	.000	.000
	Loss Conversion Factor	.087	.174	.261	.349	.436	.523	.610	.697	.784	.872	.990	.958	.935	.902
28	Basic Premium Ratio	.904	.807	.711	.615	.519	.422	.326	.230	.134	.037	.000	.000	.000	.000
	Loss Conversion Factor	.096	.193	.289	.385	.481	.578	.674	.770	.866	.963	.969	.940	.918	.887
27	Basic Premium Ratio	.892	.785	.677	.570	.462	.355	.247	.140	.032	.000	.000	.000	.000	.000
	Loss Conversion Factor	.108	.215	.323	.430	.538	.645	.753	.860	.968	.983	.946	.918	.897	.868
26	Basic Premium Ratio	.881	.761	.642	.522	.403	.283	.164	.044	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.119	.239	.358	.478	.597	.717	.836	.956	.983	.960	.925	.899	.879	.851
25	Basic Premium Ratio	.868	.736	.604	.472	.340	.208	.075	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.132	.264	.396	.528	.660	.792	.925	.987	.961	.940	.907	.883	.864	.838

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
24	Basic Premium Ratio	.852	.705	.557	.409	.261	.114	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.148	.295	.443	.591	.739	.886	.992	.964	.941	.922	.893	.872	.855	.832
23	Basic Premium Ratio	.835	.669	.504	.338	.173	.008	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.165	.331	.496	.662	.827	.992	.969	.944	.924	.907	.881	.862	.848	.827
22	Basic Premium Ratio	.814	.628	.442	.256	.070	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.186	.372	.558	.744	.930	.978	.949	.927	.909	.894	.871	.854	.841	.823
21	Basic Premium Ratio	.790	.579	.369	.159	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.210	.421	.631	.841	.990	.957	.932	.912	.896	.882	.862	.847	.835	.818
20	Basic Premium Ratio	.758	.516	.274	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.242	.484	.726	.968	.966	.936	.913	.895	.881	.869	.851	.837	.827	.812
19	Basic Premium Ratio	.720	.439	.159	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.280	.561	.841	.979	.942	.915	.894	.878	.865	.854	.838	.826	.817	.805
18	Basic Premium Ratio	.672	.344	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.328	.656	.984	.954	.920	.896	.877	.863	.851	.842	.827	.817	.810	.799
17	Basic Premium Ratio	.617	.234	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.383	.766	.977	.932	.902	.879	.863	.850	.839	.831	.819	.810	.803	.794
16	Basic Premium Ratio	.550	.100	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.450	.900	.953	.913	.885	.865	.851	.839	.830	.823	.812	.804	.798	.790
15	Basic Premium Ratio	.477	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.523	.992	.932	.896	.872	.854	.841	.831	.822	.816	.806	.799	.794	.788
14	Basic Premium Ratio	.414	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.586	.973	.912	.881	.861	.846	.834	.825	.818	.812	.804	.797	.793	.787
13	Basic Premium Ratio	.344	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.656	.953	.889	.867	.851	.838	.828	.821	.814	.809	.801	.796	.791	.786
12	Basic Premium Ratio	.256	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.744	.931	.874	.856	.842	.831	.823	.816	.810	.806	.799	.794	.790	.785
11	Basic Premium Ratio	.159	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.841	.906	.860	.846	.834	.825	.818	.812	.807	.803	.796	.792	.788	.784
10	Basic Premium Ratio	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.958	.879	.848	.836	.827	.819	.813	.807	.803	.800	.794	.790	.787	.783
9	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.982	.850	.838	.828	.820	.813	.808	.803	.800	.797	.792	.788	.786	.782
8	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.952	.838	.828	.820	.813	.808	.803	.800	.796	.794	.790	.787	.784	.781
7	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.917	.828	.820	.813	.807	.803	.799	.796	.793	.791	.788	.785	.783	.780
6	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.876	.818	.812	.806	.802	.798	.795	.792	.790	.788	.785	.783	.782	.779
5	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.826	.809	.804	.800	.797	.794	.791	.789	.787	.786	.783	.782	.780	.778
4	Basic Premium Ratio	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	Loss Conversion Factor	.815	.800	.797	.794	.792	.790	.788	.786	.785	.784	.782	.781	.779	.777

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91403, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91404 Table IV.

RETROSPECTIVE RATING PLAN A1
MINIMUM PREMIUM RATIOS
BASIC PREMIUM RATIO =.058
LOSS CONVERSION FACTOR =.729
Effective January 1, 1998

Maximum Premium Ratio:	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group														
63	.987	.975	.963	.951	.940	.928	.918	.907	.897	.887	.868	.850	.833	.801
62	.987	.974	.961	.949	.938	.926	.915	.904	.894	.884	.864	.845	.828	.795
61	.986	.973	.960	.948	.936	.924	.912	.901	.890	.880	.860	.841	.823	.789
60	.986	.972	.959	.946	.933	.921	.909	.898	.887	.876	.855	.836	.817	.783
59	.985	.971	.958	.944	.931	.919	.907	.895	.883	.872	.851	.831	.812	.777
58	.985	.970	.956	.943	.929	.917	.904	.892	.880	.869	.847	.826	.807	.771
57	.985	.970	.955	.941	.927	.914	.901	.889	.877	.865	.843	.822	.802	.765
56	.984	.969	.954	.939	.925	.912	.899	.886	.874	.862	.839	.818	.797	.760
55	.984	.968	.953	.938	.924	.910	.896	.884	.871	.859	.836	.814	.793	.756
54	.983	.967	.951	.936	.922	.908	.894	.881	.868	.856	.832	.810	.790	.752
53	.983	.966	.950	.935	.920	.906	.892	.878	.866	.853	.829	.807	.786	.748
52	.982	.965	.949	.933	.918	.904	.890	.876	.863	.850	.826	.804	.783	.744
51	.982	.965	.948	.932	.917	.902	.887	.874	.860	.847	.823	.800	.779	.740
50	.982	.964	.947	.930	.915	.899	.885	.871	.857	.844	.819	.796	.775	.735
49	.981	.963	.946	.929	.913	.897	.882	.868	.854	.841	.816	.792	.770	.731
48	.981	.962	.945	.927	.911	.895	.880	.866	.852	.838	.812	.789	.767	.727
47	.980	.962	.944	.926	.910	.894	.878	.864	.849	.836	.810	.786	.764	.723
46	.980	.961	.943	.925	.909	.893	.877	.863	.848	.835	.809	.785	.763	.723
45	.980	.961	.942	.925	.908	.892	.877	.862	.848	.834	.808	.784	.762	.722
44	.980	.960	.942	.924	.907	.891	.876	.861	.847	.833	.808	.784	.762	.722
43	.980	.960	.941	.924	.907	.891	.875	.861	.846	.833	.807	.784	.762	.722
42	.979	.959	.940	.922	.905	.888	.872	.857	.843	.829	.803	.779	.757	.717
41	.978	.958	.938	.920	.902	.885	.869	.853	.839	.825	.798	.774	.751	.710
40	.978	.957	.937	.918	.899	.882	.866	.850	.835	.820	.793	.768	.745	.704
39	.977	.956	.935	.916	.897	.879	.863	.846	.831	.816	.789	.764	.741	.699
38	.977	.955	.934	.914	.895	.877	.860	.843	.828	.813	.785	.760	.736	.694
37	.976	.954	.933	.912	.893	.875	.857	.841	.825	.810	.782	.756	.732	.690
36	.976	.953	.932	.911	.891	.873	.855	.838	.822	.807	.779	.753	.729	.686
35	.976	.953	.931	.910	.890	.871	.854	.837	.821	.805	.777	.751	.727	.684
34	.975	.952	.930	.909	.889	.870	.852	.835	.819	.804	.775	.749	.725	.683
33	.975	.951	.929	.908	.888	.869	.851	.834	.818	.802	.774	.748	.724	.682
32	.975	.951	.929	.907	.887	.868	.850	.833	.817	.802	.773	.747	.724	.682
31	.975	.951	.928	.907	.886	.867	.849	.832	.816	.801	.773	.747	.724	.682
30	.974	.950	.927	.906	.886	.867	.849	.832	.816	.801	.773	.747	.724	.682
29	.974	.950	.927	.906	.886	.867	.849	.832	.816	.801	.773	.747	.724	.682
28	.974	.949	.926	.904	.883	.864	.846	.828	.812	.797	.769	.744	.721	.682
27	.973	.947	.922	.899	.877	.857	.837	.819	.802	.785	.754	.727	.701	.657
26	.972	.945	.919	.895	.872	.851	.830	.811	.792	.775	.742	.712	.685	.636
25	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
24	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
23	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
22	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
21	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
20	.971	.943	.917	.892	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
19	.970	.941	.915	.891	.868	.846	.824	.804	.785	.766	.732	.701	.672	.620
18	.969	.940	.912	.887	.864	.843	.823	.804	.785	.766	.732	.701	.672	.620
17	.968	.938	.911	.885	.862	.840	.820	.801	.784	.766	.732	.701	.672	.620
16	.968	.937	.910	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
15	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
14	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
13	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
12	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
11	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
10	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
9	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
8	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
7	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
6	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
5	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620
4	.967	.937	.909	.884	.860	.838	.818	.800	.783	.766	.732	.701	.672	.620

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91404, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91405 Table V.

RETROSPECTIVE RATING PLAN A2
MINIMUM PREMIUM RATIOS
AND BASIC PREMIUM RATIOS
LOSS CONVERSION FACTOR =.729
Effective January 1, 1998

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
63	Basic Premium Ratio	.483	.457	.439	.425	.412	.402	.392	.383	.375	.368	.354	.342	.330	.311
	Minimum Premium Ratio	.979	.960	.943	.927	.912	.898	.884	.871	.859	.846	.823	.802	.782	.745
62	Basic Premium Ratio	.480	.454	.436	.421	.408	.397	.387	.378	.370	.362	.348	.335	.324	.304
	Minimum Premium Ratio	.978	.959	.941	.925	.909	.894	.880	.867	.854	.841	.818	.796	.775	.738
61	Basic Premium Ratio	.478	.451	.432	.416	.403	.392	.382	.373	.364	.356	.342	.329	.318	.297
	Minimum Premium Ratio	.977	.957	.939	.922	.906	.891	.876	.862	.849	.836	.811	.789	.768	.730
60	Basic Premium Ratio	.475	.448	.428	.412	.399	.387	.377	.367	.358	.350	.336	.323	.311	.290
	Minimum Premium Ratio	.976	.955	.936	.919	.902	.886	.871	.857	.843	.830	.805	.781	.760	.721
59	Basic Premium Ratio	.473	.445	.424	.408	.394	.382	.371	.362	.353	.344	.329	.316	.304	.283
	Minimum Premium Ratio	.975	.954	.934	.916	.898	.882	.867	.852	.837	.824	.798	.774	.752	.713
58	Basic Premium Ratio	.471	.442	.421	.404	.389	.377	.366	.356	.347	.338	.323	.310	.298	.277
	Minimum Premium Ratio	.974	.952	.931	.912	.895	.878	.862	.847	.832	.818	.792	.767	.745	.704
57	Basic Premium Ratio	.468	.438	.417	.399	.385	.372	.361	.351	.341	.333	.317	.303	.291	.270
	Minimum Premium Ratio	.973	.950	.929	.909	.891	.874	.857	.842	.827	.813	.786	.761	.738	.697
56	Basic Premium Ratio	.465	.434	.412	.395	.380	.367	.355	.345	.335	.326	.311	.297	.285	.263
	Minimum Premium Ratio	.972	.948	.926	.906	.887	.870	.853	.837	.822	.807	.780	.755	.731	.690
55	Basic Premium Ratio	.462	.430	.408	.390	.374	.361	.349	.339	.329	.320	.304	.290	.278	.257
	Minimum Premium Ratio	.971	.946	.924	.903	.884	.866	.849	.832	.817	.802	.774	.749	.725	.683
54	Basic Premium Ratio	.458	.426	.403	.384	.369	.355	.343	.333	.323	.314	.298	.284	.271	.250
	Minimum Premium Ratio	.970	.945	.922	.900	.880	.862	.844	.827	.812	.797	.768	.743	.719	.677
53	Basic Premium Ratio	.455	.422	.398	.379	.363	.350	.337	.327	.317	.307	.291	.277	.265	.244
	Minimum Premium Ratio	.969	.943	.919	.897	.877	.858	.840	.823	.807	.792	.763	.737	.713	.671
52	Basic Premium Ratio	.451	.417	.393	.374	.358	.344	.332	.320	.310	.301	.285	.271	.258	.238
	Minimum Premium Ratio	.968	.941	.917	.895	.874	.854	.836	.819	.803	.787	.758	.732	.709	.666
51	Basic Premium Ratio	.447	.413	.388	.369	.352	.338	.325	.314	.304	.295	.278	.264	.252	.232
	Minimum Premium Ratio	.967	.939	.914	.891	.870	.851	.832	.815	.798	.782	.753	.727	.703	.660
50	Basic Premium Ratio	.443	.408	.383	.363	.346	.332	.319	.308	.298	.288	.272	.258	.245	.225
	Minimum Premium Ratio	.966	.937	.912	.888	.867	.846	.828	.810	.793	.777	.747	.721	.697	.654
49	Basic Premium Ratio	.440	.403	.378	.357	.340	.326	.313	.301	.291	.282	.265	.251	.239	.219
	Minimum Premium Ratio	.965	.935	.909	.885	.863	.842	.823	.805	.788	.772	.742	.715	.690	.647
48	Basic Premium Ratio	.436	.399	.372	.352	.334	.320	.307	.295	.285	.275	.259	.245	.232	.213
	Minimum Premium Ratio	.964	.933	.907	.882	.860	.839	.819	.801	.783	.767	.737	.710	.685	.641
47	Basic Premium Ratio	.431	.394	.367	.346	.328	.313	.300	.289	.278	.269	.252	.238	.226	.207
	Minimum Premium Ratio	.962	.931	.904	.879	.856	.835	.816	.797	.780	.763	.733	.706	.681	.637
46	Basic Premium Ratio	.427	.388	.361	.339	.321	.306	.293	.282	.271	.262	.246	.232	.220	.201
	Minimum Premium Ratio	.961	.929	.901	.876	.853	.832	.812	.793	.776	.760	.729	.702	.678	.635
45	Basic Premium Ratio	.423	.383	.354	.333	.315	.300	.286	.275	.265	.255	.239	.226	.215	.196
	Minimum Premium Ratio	.960	.927	.899	.873	.850	.829	.809	.790	.773	.757	.727	.700	.675	.633
44	Basic Premium Ratio	.418	.377	.348	.326	.308	.293	.280	.268	.258	.249	.233	.220	.209	.191
	Minimum Premium Ratio	.958	.925	.897	.871	.848	.826	.806	.788	.771	.754	.725	.698	.674	.631
43	Basic Premium Ratio	.413	.371	.342	.319	.301	.286	.273	.262	.252	.243	.227	.215	.204	.186
	Minimum Premium Ratio	.957	.924	.895	.869	.846	.824	.804	.786	.768	.752	.723	.696	.672	.630
42	Basic Premium Ratio	.408	.365	.335	.313	.294	.279	.266	.255	.245	.236	.221	.208	.197	.180

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
	Minimum Premium Ratio	.956	.921	.892	.865	.842	.820	.799	.781	.763	.747	.716	.690	.666	.623
41	Basic Premium Ratio	.403	.359	.329	.306	.288	.272	.259	.248	.238	.229	.213	.201	.190	.173
	Minimum Premium Ratio	.954	.919	.889	.862	.837	.815	.794	.775	.757	.740	.710	.683	.659	.616
40	Basic Premium Ratio	.398	.353	.322	.299	.281	.265	.252	.241	.231	.222	.207	.194	.184	.167
	Minimum Premium Ratio	.953	.917	.886	.858	.833	.810	.789	.770	.752	.735	.704	.677	.651	.609
39	Basic Premium Ratio	.392	.347	.316	.292	.274	.258	.245	.234	.224	.215	.200	.188	.177	.161
	Minimum Premium Ratio	.951	.914	.883	.855	.829	.806	.785	.765	.747	.730	.699	.671	.646	.603
38	Basic Premium Ratio	.386	.340	.309	.286	.267	.252	.238	.227	.217	.209	.194	.182	.171	.155
	Minimum Premium Ratio	.950	.913	.880	.852	.826	.802	.781	.761	.743	.725	.694	.666	.641	.598
37	Basic Premium Ratio	.380	.333	.302	.279	.260	.245	.232	.221	.211	.202	.188	.176	.166	.150
	Minimum Premium Ratio	.949	.911	.878	.849	.823	.800	.778	.757	.739	.722	.690	.661	.636	.593
36	Basic Premium Ratio	.373	.326	.295	.272	.253	.238	.225	.214	.204	.196	.181	.170	.160	.145
	Minimum Premium Ratio	.948	.909	.876	.847	.821	.797	.775	.755	.736	.718	.687	.658	.634	.590
35	Basic Premium Ratio	.366	.318	.287	.264	.246	.230	.218	.207	.197	.189	.175	.164	.154	.140
	Minimum Premium Ratio	.947	.908	.874	.845	.818	.795	.773	.752	.734	.716	.685	.656	.632	.588
34	Basic Premium Ratio	.358	.310	.279	.256	.238	.223	.211	.200	.191	.183	.169	.158	.149	.135
	Minimum Premium Ratio	.946	.906	.873	.844	.817	.793	.771	.751	.732	.714	.683	.655	.630	.587
33	Basic Premium Ratio	.349	.302	.271	.249	.231	.216	.204	.194	.184	.177	.163	.153	.144	.130
	Minimum Premium Ratio	.945	.906	.872	.842	.816	.792	.770	.750	.732	.714	.683	.655	.630	.588
32	Basic Premium Ratio	.341	.294	.263	.241	.224	.209	.197	.187	.178	.171	.158	.148	.139	.126
	Minimum Premium Ratio	.945	.905	.872	.842	.816	.792	.770	.750	.732	.714	.683	.655	.631	.589
31	Basic Premium Ratio	.333	.285	.255	.233	.216	.202	.190	.180	.172	.164	.152	.142	.134	.122
	Minimum Premium Ratio	.944	.904	.870	.841	.814	.790	.769	.749	.730	.714	.683	.656	.633	.591
30	Basic Premium Ratio	.324	.277	.247	.225	.208	.195	.183	.174	.166	.159	.147	.137	.130	.118
	Minimum Premium Ratio	.943	.902	.869	.840	.814	.790	.769	.748	.730	.713	.683	.658	.634	.595
29	Basic Premium Ratio	.315	.268	.239	.218	.201	.188	.177	.168	.160	.153	.142	.133	.126	.115
	Minimum Premium Ratio	.942	.902	.868	.839	.813	.790	.769	.749	.731	.715	.685	.659	.637	.599
28	Basic Premium Ratio	.306	.260	.231	.210	.194	.181	.170	.161	.153	.147	.136	.127	.120	.109
	Minimum Premium Ratio	.942	.901	.867	.838	.811	.788	.766	.747	.729	.711	.681	.655	.632	.593
27	Basic Premium Ratio	.298	.252	.223	.202	.186	.173	.163	.153	.146	.139	.128	.119	.112	.101
	Minimum Premium Ratio	.940	.898	.864	.833	.806	.781	.758	.738	.718	.700	.668	.640	.614	.571
26	Basic Premium Ratio	.290	.244	.216	.195	.179	.166	.155	.146	.138	.132	.121	.112	.105	.094
	Minimum Premium Ratio	.939	.896	.860	.829	.801	.775	.752	.731	.711	.691	.657	.627	.599	.553
25	Basic Premium Ratio	.281	.236	.208	.188	.172	.159	.148	.139	.132	.125	.114	.105	.098	.088
	Minimum Premium Ratio	.938	.895	.858	.826	.797	.771	.747	.725	.704	.685	.650	.619	.592	.542
24	Basic Premium Ratio	.270	.226	.199	.179	.164	.152	.142	.133	.126	.120	.110	.102	.095	.086
	Minimum Premium Ratio	.938	.894	.858	.827	.798	.773	.749	.729	.708	.689	.655	.625	.600	.551
23	Basic Premium Ratio	.259	.216	.190	.171	.156	.145	.136	.128	.121	.115	.106	.098	.093	.084
	Minimum Premium Ratio	.938	.895	.860	.829	.802	.777	.753	.733	.714	.697	.663	.636	.608	.564
22	Basic Premium Ratio	.248	.207	.181	.163	.150	.139	.130	.123	.116	.111	.102	.095	.090	.082
	Minimum Premium Ratio	.938	.896	.862	.832	.805	.781	.760	.739	.722	.704	.674	.648	.622	.580
21	Basic Premium Ratio	.236	.197	.173	.156	.143	.133	.125	.118	.112	.107	.099	.093	.088	.080
	Minimum Premium Ratio	.940	.899	.865	.836	.811	.787	.766	.747	.730	.714	.685	.659	.636	.599
20	Basic Premium Ratio	.226	.188	.165	.149	.136	.126	.119	.112	.107	.102	.094	.089	.084	.077
	Minimum Premium Ratio	.939	.898	.865	.835	.810	.788	.766	.748	.730	.715	.689	.662	.642	.607
19	Basic Premium Ratio	.218	.180	.156	.140	.128	.119	.111	.105	.100	.096	.089	.084	.080	.074
	Minimum Premium Ratio	.937	.894	.860	.830	.804	.781	.761	.742	.724	.708	.680	.655	.633	.597
18	Basic Premium Ratio	.208	.171	.148	.133	.121	.112	.105	.099	.095	.091	.084	.080	.076	.071

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
	Minimum Premium Ratio	.935	.892	.857	.826	.800	.777	.756	.737	.718	.703	.677	.651	.631	.594
17	Basic Premium Ratio	.199	.162	.140	.125	.115	.106	.099	.094	.090	.086	.081	.076	.073	.069
	Minimum Premium Ratio	.934	.891	.856	.826	.798	.775	.755	.736	.717	.703	.673	.653	.631	.592
16	Basic Premium Ratio	.189	.154	.133	.119	.109	.101	.095	.090	.086	.082	.077	.073	.071	.067
	Minimum Premium Ratio	.934	.890	.855	.825	.798	.775	.754	.736	.719	.706	.679	.658	.633	.598
15	Basic Premium Ratio	.181	.146	.126	.113	.103	.096	.090	.086	.082	.079	.075	.071	.069	.065
	Minimum Premium Ratio	.933	.889	.855	.826	.801	.778	.759	.739	.724	.710	.682	.663	.641	.613
14	Basic Premium Ratio	.176	.139	.119	.108	.100	.093	.088	.084	.081	.078	.074	.070	.068	.065
	Minimum Premium Ratio	.924	.878	.850	.821	.796	.775	.755	.737	.720	.706	.679	.663	.642	.608
13	Basic Premium Ratio	.170	.131	.113	.103	.096	.090	.085	.082	.079	.076	.072	.070	.067	.064
	Minimum Premium Ratio	.915	.868	.844	.818	.793	.772	.754	.735	.719	.706	.682	.656	.643	.612
12	Basic Premium Ratio	.164	.123	.107	.099	.092	.087	.083	.080	.077	.075	.071	.069	.067	.064
	Minimum Premium Ratio	.904	.860	.839	.812	.791	.770	.751	.732	.718	.702	.680	.655	.637	.606
11	Basic Premium Ratio	.156	.113	.102	.094	.089	.084	.081	.078	.075	.073	.070	.068	.066	.063
	Minimum Premium Ratio	.892	.859	.834	.811	.786	.768	.747	.730	.718	.704	.678	.655	.638	.612
10	Basic Premium Ratio	.148	.104	.097	.090	.086	.082	.078	.076	.074	.072	.069	.067	.065	.063
	Minimum Premium Ratio	.876	.858	.829	.807	.782	.762	.748	.728	.712	.699	.676	.654	.640	.605
9	Basic Premium Ratio	.139	.098	.092	.087	.082	.079	.076	.074	.072	.070	.068	.066	.065	.062
	Minimum Premium Ratio	.856	.853	.825	.800	.782	.761	.744	.727	.712	.702	.674	.654	.631	.612
8	Basic Premium Ratio	.106	.093	.087	.083	.079	.076	.074	.072	.070	.069	.067	.065	.064	.062
	Minimum Premium Ratio	.855	.846	.823	.798	.779	.761	.741	.725	.713	.697	.671	.654	.633	.604
7	Basic Premium Ratio	.097	.088	.083	.079	.076	.074	.072	.070	.069	.068	.066	.064	.063	.061
	Minimum Premium Ratio	.855	.840	.818	.797	.777	.756	.738	.725	.707	.691	.668	.655	.636	.613
6	Basic Premium Ratio	.089	.083	.079	.076	.074	.072	.070	.068	.067	.066	.065	.063	.062	.061
	Minimum Premium Ratio	.855	.836	.814	.792	.768	.749	.735	.725	.709	.696	.664	.656	.640	.602
5	Basic Premium Ratio	.082	.078	.075	.073	.071	.069	.068	.067	.066	.065	.063	.062	.062	.061
	Minimum Premium Ratio	.855	.833	.811	.787	.767	.752	.732	.714	.700	.689	.677	.658	.624	.586
4	Basic Premium Ratio	.077	.074	.071	.070	.068	.067	.066	.065	.064	.063	.062	.062	.061	.061
	Minimum Premium Ratio	.855	.830	.811	.782	.767	.752	.729	.714	.700	.689	.677	.658	.624	.586

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91405, filed 11/30/98, effective 1/1/99.]

WAC 296-17-91406 Table VI.

RETROSPECTIVE RATING PLAN A3
MINIMUM PREMIUM RATIOS
AND BASIC PREMIUM RATIOS
LOSS CONVERSION FACTOR =.729
Effective January 1, 1998

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
63	Basic Premium Ratio	.818	.762	.722	.692	.666	.642	.622	.603	.586	.571	.543	.517	.495	.458
	Minimum Premium Ratio	.947	.916	.892	.871	.853	.837	.822	.808	.795	.782	.759	.738	.718	.682
62	Basic Premium Ratio	.814	.760	.719	.687	.659	.636	.616	.596	.578	.562	.534	.509	.486	.448
	Minimum Premium Ratio	.945	.912	.887	.866	.848	.831	.815	.801	.788	.775	.751	.729	.709	.673
61	Basic Premium Ratio	.813	.754	.713	.680	.652	.628	.606	.587	.570	.553	.524	.497	.475	.437
	Minimum Premium Ratio	.942	.909	.883	.861	.842	.825	.809	.794	.780	.767	.743	.721	.700	.663
60	Basic Premium Ratio	.811	.749	.705	.672	.644	.618	.597	.577	.558	.543	.513	.486	.464	.425
	Minimum Premium Ratio	.939	.905	.879	.856	.836	.819	.802	.787	.773	.759	.734	.712	.690	.653
59	Basic Premium Ratio	.805	.744	.699	.664	.634	.608	.586	.567	.549	.532	.501	.475	.452	.413
	Minimum Premium Ratio	.937	.901	.874	.851	.831	.813	.796	.780	.765	.751	.726	.703	.681	.643

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
58	Basic Premium Ratio	.802	.737	.691	.655	.626	.599	.577	.557	.538	.521	.490	.464	.441	.403
	Minimum Premium Ratio	.934	.898	.870	.846	.825	.807	.789	.773	.758	.744	.718	.694	.672	.633
57	Basic Premium Ratio	.796	.731	.685	.647	.618	.591	.568	.547	.528	.511	.480	.454	.431	.392
	Minimum Premium Ratio	.932	.894	.865	.841	.819	.800	.782	.766	.751	.736	.710	.685	.663	.624
56	Basic Premium Ratio	.794	.725	.678	.640	.609	.581	.558	.537	.518	.501	.470	.443	.421	.382
	Minimum Premium Ratio	.928	.890	.860	.835	.813	.794	.776	.759	.743	.728	.701	.677	.654	.614
55	Basic Premium Ratio	.790	.721	.671	.632	.601	.573	.550	.527	.509	.490	.460	.433	.411	.371
	Minimum Premium Ratio	.925	.885	.855	.830	.807	.787	.768	.752	.735	.721	.693	.668	.645	.606
54	Basic Premium Ratio	.787	.714	.666	.626	.592	.565	.541	.518	.499	.481	.450	.423	.400	.363
	Minimum Premium Ratio	.921	.881	.849	.823	.801	.780	.761	.744	.728	.713	.685	.660	.637	.597
53	Basic Premium Ratio	.784	.709	.659	.617	.585	.555	.532	.509	.489	.472	.440	.414	.391	.353
	Minimum Premium Ratio	.917	.876	.844	.818	.794	.774	.754	.737	.721	.705	.677	.652	.629	.589
52	Basic Premium Ratio	.780	.704	.651	.610	.577	.548	.522	.501	.481	.463	.431	.405	.382	.345
	Minimum Premium Ratio	.913	.871	.839	.812	.788	.767	.748	.729	.713	.697	.669	.644	.621	.581
51	Basic Premium Ratio	.775	.698	.644	.602	.567	.539	.514	.491	.471	.454	.422	.396	.372	.336
	Minimum Premium Ratio	.909	.866	.833	.806	.782	.760	.740	.722	.705	.689	.661	.635	.613	.573
50	Basic Premium Ratio	.769	.690	.634	.593	.557	.529	.502	.480	.460	.442	.411	.384	.362	.325
	Minimum Premium Ratio	.905	.861	.828	.799	.775	.752	.733	.714	.697	.681	.652	.627	.604	.564
49	Basic Premium Ratio	.763	.682	.626	.583	.548	.519	.493	.470	.450	.432	.400	.374	.352	.316
	Minimum Premium Ratio	.901	.856	.822	.793	.768	.745	.725	.706	.689	.673	.644	.618	.595	.555
48	Basic Premium Ratio	.756	.674	.617	.574	.538	.509	.482	.460	.439	.422	.390	.365	.342	.307
	Minimum Premium Ratio	.897	.851	.816	.786	.761	.738	.718	.699	.682	.665	.636	.610	.587	.547
47	Basic Premium Ratio	.750	.665	.607	.564	.528	.498	.472	.449	.429	.411	.381	.355	.333	.298
	Minimum Premium Ratio	.892	.846	.810	.780	.754	.731	.710	.692	.674	.658	.628	.602	.579	.539
46	Basic Premium Ratio	.741	.654	.596	.552	.516	.485	.460	.437	.418	.400	.370	.345	.323	.289
	Minimum Premium Ratio	.888	.840	.803	.773	.747	.724	.703	.684	.666	.650	.621	.596	.573	.534
45	Basic Premium Ratio	.731	.643	.585	.540	.503	.473	.448	.426	.406	.389	.360	.335	.315	.282
	Minimum Premium Ratio	.884	.834	.796	.766	.740	.717	.696	.677	.660	.643	.614	.589	.567	.528
44	Basic Premium Ratio	.722	.633	.573	.528	.493	.463	.437	.415	.396	.379	.350	.326	.306	.274
	Minimum Premium Ratio	.879	.828	.790	.759	.732	.709	.689	.670	.653	.637	.608	.583	.561	.523
43	Basic Premium Ratio	.712	.622	.562	.517	.481	.451	.426	.405	.386	.370	.341	.318	.298	.267
	Minimum Premium Ratio	.874	.822	.783	.752	.726	.703	.682	.663	.646	.630	.602	.578	.556	.518
42	Basic Premium Ratio	.703	.612	.551	.506	.470	.440	.415	.394	.375	.358	.330	.307	.288	.257
	Minimum Premium Ratio	.869	.815	.776	.745	.718	.694	.673	.654	.637	.621	.593	.568	.547	.509
41	Basic Premium Ratio	.696	.602	.541	.495	.458	.429	.403	.382	.363	.347	.319	.296	.277	.247
	Minimum Premium Ratio	.863	.809	.769	.737	.710	.686	.665	.645	.628	.612	.583	.559	.537	.499
40	Basic Premium Ratio	.686	.592	.530	.484	.448	.418	.392	.371	.352	.336	.308	.286	.267	.237
	Minimum Premium Ratio	.858	.802	.762	.729	.701	.677	.656	.637	.619	.603	.574	.549	.527	.490
39	Basic Premium Ratio	.677	.581	.520	.473	.437	.407	.382	.360	.342	.325	.298	.275	.257	.228
	Minimum Premium Ratio	.852	.796	.754	.721	.693	.669	.648	.628	.610	.594	.566	.541	.519	.482
38	Basic Premium Ratio	.668	.571	.509	.463	.426	.396	.372	.350	.332	.315	.288	.266	.248	.220
	Minimum Premium Ratio	.846	.789	.747	.714	.686	.661	.639	.620	.602	.586	.557	.533	.510	.473
37	Basic Premium Ratio	.659	.562	.499	.453	.416	.387	.362	.340	.322	.306	.279	.257	.240	.212
	Minimum Premium Ratio	.839	.781	.740	.706	.678	.653	.631	.612	.594	.578	.550	.525	.503	.466
36	Basic Premium Ratio	.649	.551	.488	.442	.405	.376	.351	.330	.312	.297	.270	.249	.231	.204
	Minimum Premium Ratio	.832	.774	.732	.698	.670	.645	.624	.604	.586	.570	.542	.517	.496	.459
35	Basic Premium Ratio	.635	.538	.475	.429	.393	.365	.340	.320	.302	.286	.260	.240	.223	.196
	Minimum Premium Ratio	.825	.766	.724	.690	.662	.637	.616	.596	.579	.563	.535	.510	.489	.453

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
34	Basic Premium Ratio	.623	.525	.463	.418	.382	.354	.330	.309	.292	.277	.252	.231	.215	.189
	Minimum Premium Ratio	.816	.757	.715	.682	.654	.629	.608	.589	.571	.556	.528	.504	.483	.447
33	Basic Premium Ratio	.610	.513	.451	.406	.371	.343	.320	.300	.283	.268	.244	.224	.208	.183
	Minimum Premium Ratio	.808	.749	.707	.674	.646	.622	.600	.582	.564	.549	.521	.498	.477	.442
32	Basic Premium Ratio	.597	.501	.440	.395	.361	.334	.311	.291	.274	.260	.236	.217	.201	.177
	Minimum Premium Ratio	.799	.740	.699	.666	.638	.614	.593	.575	.558	.543	.515	.492	.472	.438
31	Basic Premium Ratio	.582	.486	.425	.382	.348	.321	.299	.280	.264	.250	.226	.208	.193	.171
	Minimum Premium Ratio	.791	.732	.690	.658	.630	.606	.586	.567	.551	.536	.510	.487	.467	.434
30	Basic Premium Ratio	.567	.471	.412	.369	.336	.309	.288	.269	.254	.240	.218	.201	.187	.165
	Minimum Premium Ratio	.782	.723	.681	.649	.622	.599	.579	.561	.545	.530	.504	.482	.463	.430
29	Basic Premium Ratio	.551	.457	.398	.356	.324	.299	.277	.260	.245	.232	.210	.194	.180	.160
	Minimum Premium Ratio	.773	.714	.673	.642	.615	.592	.572	.555	.539	.524	.499	.477	.459	.427
28	Basic Premium Ratio	.537	.444	.386	.344	.313	.287	.266	.249	.234	.221	.200	.184	.171	.151
	Minimum Premium Ratio	.764	.705	.665	.633	.606	.584	.564	.546	.530	.516	.491	.470	.451	.421
27	Basic Premium Ratio	.524	.431	.373	.332	.300	.275	.254	.236	.221	.208	.187	.170	.157	.136
	Minimum Premium Ratio	.755	.697	.655	.623	.596	.573	.552	.534	.518	.502	.476	.453	.433	.400
26	Basic Premium Ratio	.510	.418	.361	.320	.288	.263	.242	.224	.209	.196	.175	.158	.145	.124
	Minimum Premium Ratio	.747	.688	.646	.613	.586	.562	.541	.523	.505	.490	.463	.439	.418	.383
25	Basic Premium Ratio	.497	.405	.348	.307	.276	.251	.230	.213	.198	.185	.164	.147	.134	.114
	Minimum Premium Ratio	.738	.679	.638	.605	.577	.553	.531	.512	.495	.479	.451	.427	.405	.369
24	Basic Premium Ratio	.476	.386	.331	.292	.262	.238	.218	.202	.188	.176	.157	.141	.129	.111
	Minimum Premium Ratio	.727	.669	.628	.596	.569	.546	.525	.506	.490	.474	.447	.423	.402	.367
23	Basic Premium Ratio	.454	.368	.315	.277	.249	.226	.208	.192	.179	.168	.150	.136	.124	.107
	Minimum Premium Ratio	.716	.659	.619	.588	.561	.539	.519	.501	.485	.469	.443	.420	.400	.365
22	Basic Premium Ratio	.434	.351	.300	.264	.237	.216	.198	.184	.172	.161	.144	.131	.120	.104
	Minimum Premium Ratio	.704	.649	.611	.580	.555	.533	.513	.496	.480	.465	.439	.417	.397	.363
21	Basic Premium Ratio	.414	.335	.286	.252	.226	.206	.190	.176	.165	.155	.139	.126	.117	.102
	Minimum Premium Ratio	.693	.640	.603	.573	.548	.527	.508	.491	.476	.461	.436	.414	.395	.361
20	Basic Premium Ratio	.394	.318	.271	.238	.214	.194	.178	.166	.155	.145	.130	.119	.110	.096
	Minimum Premium Ratio	.683	.631	.595	.566	.541	.520	.502	.485	.470	.456	.431	.410	.391	.358
19	Basic Premium Ratio	.377	.301	.254	.222	.198	.179	.164	.152	.142	.133	.120	.109	.101	.089
	Minimum Premium Ratio	.674	.621	.585	.557	.533	.513	.494	.478	.464	.450	.426	.405	.387	.355
18	Basic Premium Ratio	.358	.283	.238	.207	.184	.166	.152	.140	.131	.123	.110	.101	.094	.083
	Minimum Premium Ratio	.664	.612	.575	.547	.524	.505	.488	.472	.458	.445	.421	.401	.383	.352
17	Basic Premium Ratio	.339	.266	.222	.192	.171	.154	.140	.130	.121	.114	.103	.094	.088	.079
	Minimum Premium Ratio	.654	.602	.567	.539	.517	.497	.480	.466	.453	.440	.418	.398	.380	.350
16	Basic Premium Ratio	.320	.249	.208	.179	.159	.143	.131	.121	.113	.106	.096	.088	.083	.075
	Minimum Premium Ratio	.644	.593	.559	.532	.510	.491	.475	.461	.448	.436	.414	.395	.378	.348
15	Basic Premium Ratio	.303	.234	.194	.168	.148	.134	.122	.113	.106	.100	.091	.084	.079	.072
	Minimum Premium Ratio	.635	.586	.552	.526	.504	.486	.470	.457	.445	.433	.412	.393	.376	.346
14	Basic Premium Ratio	.293	.220	.180	.157	.141	.128	.117	.109	.103	.097	.089	.082	.078	.071
	Minimum Premium Ratio	.630	.579	.545	.521	.501	.483	.468	.455	.443	.432	.411	.392	.375	.346
13	Basic Premium Ratio	.281	.204	.167	.148	.133	.122	.112	.105	.099	.094	.086	.081	.076	.070
	Minimum Premium Ratio	.624	.571	.538	.516	.497	.480	.465	.453	.441	.430	.409	.391	.374	.345
12	Basic Premium Ratio	.269	.187	.156	.139	.126	.116	.108	.101	.096	.091	.084	.079	.075	.069
	Minimum Premium Ratio	.618	.562	.533	.512	.493	.477	.463	.451	.440	.429	.408	.390	.374	.345
11	Basic Premium Ratio	.254	.167	.145	.130	.119	.110	.103	.097	.092	.088	.082	.077	.073	.068
	Minimum Premium Ratio	.611	.552	.527	.507	.490	.474	.461	.449	.438	.427	.407	.389	.373	.344

Maximum Premium Ratio:		1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.60	1.70	1.80	2.00
Size Group															
10	Basic Premium Ratio	.238	.150	.135	.122	.113	.105	.098	.093	.089	.085	.079	.075	.072	.067
	Minimum Premium Ratio	.603	.544	.522	.503	.487	.472	.458	.447	.436	.426	.406	.388	.372	.344
9	Basic Premium Ratio	.219	.138	.125	.115	.106	.100	.094	.089	.085	.082	.077	.073	.071	.066
	Minimum Premium Ratio	.593	.538	.517	.500	.483	.469	.456	.445	.434	.424	.405	.387	.372	.343
8	Basic Premium Ratio	.197	.127	.116	.107	.100	.094	.090	.086	.082	.079	.075	.072	.069	.065
	Minimum Premium Ratio	.582	.532	.513	.496	.480	.466	.454	.443	.433	.423	.404	.387	.371	.343
7	Basic Premium Ratio	.170	.117	.108	.100	.094	.089	.085	.082	.079	.077	.073	.070	.068	.064
	Minimum Premium Ratio	.569	.527	.509	.492	.477	.464	.452	.441	.431	.422	.403	.386	.370	.342
6	Basic Premium Ratio	.137	.107	.100	.094	.089	.085	.081	.078	.076	.074	.071	.068	.066	.064
	Minimum Premium Ratio	.552	.522	.505	.489	.475	.462	.450	.439	.430	.420	.402	.385	.369	.342
5	Basic Premium Ratio	.105	.098	.092	.087	.083	.080	.077	.075	.073	.071	.068	.066	.065	.063
	Minimum Premium Ratio	.536	.518	.501	.486	.472	.459	.448	.438	.428	.419	.400	.384	.369	.342
4	Basic Premium Ratio	.104	.089	.085	.081	.078	.075	.073	.072	.070	.068	.066	.065	.064	.062
	Minimum Premium Ratio	.532	.513	.497	.483	.469	.457	.446	.436	.427	.417	.399	.383	.368	.342

[Statutory Authority: RCW 51.16.035. 98-24-072, § 296-17-91406, filed 11/30/98, effective 1/1/99.]

WAC 296-17-919 Table I.

RETROSPECTIVE RATING PLANS A, A1, A2, A3, AND B
STANDARD PREMIUM SIZE RANGES
Effective January 1, 1999

Size Group Number	Standard Premium Range		
63	$ 3,264	-	$ 3,943
62	3,944	-	4,734
61	4,735	-	5,634
60	5,635	-	6,667
59	6,668	-	7,846
58	7,847	-	9,175
57	9,176	-	10,685
56	10,686	-	12,398
55	12,399	-	14,307
54	14,308	-	16,460
53	16,461	-	18,881
52	18,882	-	20,947
51	20,948	-	22,730
50	22,731	-	24,463
49	24,464	-	26,356
48	26,357	-	28,448
47	28,449	-	30,761
46	30,762	-	33,302
45	33,303	-	36,129
44	36,130	-	39,277
43	39,278	-	42,758
42	42,759	-	46,656
41	46,657	-	51,035
40	51,036	-	55,912
39	55,913	-	61,421
38	61,422	-	67,665
37	67,666	-	74,679
36	74,680	-	82,147
35	82,148	-	90,362
34	90,363	-	99,398
33	99,399	-	109,338
32	109,339	-	120,272
31	120,273	-	131,694
30	131,695	-	144,292
29	144,293	-	158,650
28	158,651	-	174,889
27	174,890	-	193,580
26	193,581	-	215,200
25	215,201	-	240,009
24	240,010	-	269,056
23	269,057	-	303,293
22	303,294	-	343,309
21	343,310	-	391,206
20	391,207	-	449,043
19	449,044	-	518,289
18	518,290	-	603,643
17	603,644	-	710,112
16	710,113	-	841,852
15	841,853	-	1,075,432
14	1,075,433	-	1,373,822
13	1,373,823	-	1,755,003
12	1,755,004	-	2,241,946
11	2,241,947	-	2,863,974
10	2,863,975	-	4,116,867
9	4,116,868	-	6,042,030
8	6,042,031	-	8,590,567
7	8,590,568	-	12,657,522
6	12,657,523	-	19,686,176
5	19,686,177	-	31,076,009
4	31,076,010	& Over	

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-919, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-919, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-919, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.16.035. 96-10-029, § 296-17-919, filed 4/24/96, effective 4/26/96. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-919, filed 11/20/95, effective 1/1/96; 95-06-069, § 296-17-919, filed 3/1/95, effective 4/10/95; 94-24-007, § 296-17-919, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-919, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-919, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-919,

filed 11/27/91, effective 1/1/92; 90-24-042, § 296-17-919, filed 11/30/90, effective 1/1/91; 89-24-051 (Order 89-22), § 296-17-919, filed 12/1/89, effective 1/1/90; 88-24-010 (Order 88-26), § 296-17-919, filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.16.035. 86-06-018 (Order 86-18), § 296-17-919, filed 2/25/86; 85-06-025 (Order 85-8), § 296-17-919, filed 2/28/85, effective 7/1/85; 84-06-024 (Order 84-2), § 296-17-919, filed 2/29/84, effective 7/1/84; 83-05-018 (Order 83-4), § 296-17-919, filed 2/9/83, effective 7/1/83; 82-05-019 (Order 82-5), § 296-17-919, filed 2/10/82; 81-24-042 (Order 81-30), § 296-17-919, filed 11/30/81, effective 1/1/82; 81-04-024 (Order 81-02), § 296-17-919, filed 1/30/81.]

WAC 296-17-920 Assessment for supplemental pension fund. The amount of 24.6 mills ($.0246) shall be retained by each employer from the earnings of each worker for each hour or fraction thereof the worker is employed. The amount of money so retained from the employee shall be matched in an equal amount by each employer, except as otherwise provided in these rules, all such moneys shall be remitted to the department on or before the last day of January, April, July and October of each year for the preceding calendar quarter, provided self-insured employers shall remit to the department as provided under WAC 296-15-060. All such moneys shall be deposited in the supplemental pension fund.

[Statutory Authority: RCW 51.04.020, 51.16.035 and 51.32.073. 98-24-094, § 296-17-920, filed 12/1/98, effective 1/1/99; 97-24-062, § 296-17-920, filed 12/1/97, effective 1/1/98; 96-24-063, § 296-17-920, filed 11/29/96, effective 1/1/97. Statutory Authority: RCW 51.16.035 and 51.32.073. 96-06-025, § 296-17-920, filed 2/28/96, effective 4/1/96. Statutory Authority: RCW 51.04.020. 95-23-080, § 296-17-920, filed 11/20/95, effective 1/1/96; 94-24-007, § 296-17-920, filed 11/28/94, effective 1/1/95; 93-24-114, § 296-17-920, filed 12/1/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 92-24-063, § 296-17-920, filed 11/30/92, effective 1/1/93; 91-24-053, § 296-17-920, filed 11/27/91, effective 1/1/92; 89-24-051 (Order 89-22), § 296-17-920, filed 12/1/89, effective 1/1/90. Statutory Authority: RCW 51.04.020 and 51.32.073. 87-04-006 (Order 86-49), § 296-17-920, filed 1/23/87. Statutory Authority: RCW 51.16.035. 86-12-041 (Order 86-18), § 296-17-920, filed 5/30/86, effective 7/1/86; 83-24-017 (Order 83-36), § 296-17-920, filed 11/30/83, effective 1/1/84; 82-24-047 (Order 82-38), § 296-17-920, filed 11/29/82, effective 1/1/83; 81-24-042 (Order 81-30), § 296-17-920, filed 11/30/81, effective 1/1/82; 80-17-016 (Order 80-23), § 296-17-920, filed 11/13/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-17-920, filed 11/30/79, effective 1/1/80. Statutory Authority: RCW 51.04.020(1) and 51.16.035. 78-12-043 (Order 78-23), § 296-17-920, filed 11/27/78, effective 1/1/79; Order 77-27, § 296-17-920, filed 11/30/77, effective 1/1/78; Order 77-10, § 296-17-920, filed 5/31/77; Order 76-36, § 296-17-920, filed 11/30/76; Order 75-38, § 296-17-920, filed 11/24/75, effective 1/1/76; Order 75-28, § 296-17-920, filed 8/29/75, effective 10/1/75; Order 74-40, § 296-17-920, filed 11/27/74, effective 1/1/75; Order 74-6, § 296-17-920, filed 1/23/74.]

WAC 296-17-925 Student volunteers. Any employer electing to insure student volunteers under the authority of chapter 51.12 RCW as now or hereafter amended shall give notice in writing on a form prescribed by the department. Any employer having elected to insure student volunteers shall maintain office records of all hours of work performed by student volunteers. Such office records shall include notice in writing as a registration of each student who has been recognized by the school and accepted by the employer to perform or observe the work of the employer. A report of such hours will be included with the employer's regular quarterly report of payroll as prescribed by the department, and will include payment for the premium based on such hours and at such rates per hour as assigned by the department.

[Statutory Authority: RCW 51.04.020. 94-24-007, § 296-17-925, filed 11/28/94, effective 1/1/95.]

WAC 296-17-930 Volunteers. Any city, county, school district, municipal corporation or any other political subdivision, or private nonprofit charitable organization electing to insure volunteers under the authority of RCW 51.12.035 as now or hereafter amended shall give notice in writing on a form prescribed by the department. Any employer having elected to insure volunteers shall maintain office records of all hours of work performed by volunteers. Such office records shall include notice in writing as a registration of each person who has volunteered and has been accepted by the employer to perform work as a volunteer. A report of such hours will be included with the employer's regular quarterly report of payroll as prescribed by the department, and will include payment for the premium based on such hours and at such rates per hour as assigned by the department.

[Order 77-27, § 296-17-930, filed 11/30/77, effective 1/1/78; Order 75-28, § 296-17-930, filed 8/29/75, effective 10/1/75.]

Chapter 296-18A WAC
REHABILITATION REVIEW

WAC

296-18A-420 Definitions.
296-18A-440 Reports.
296-18A-445 Self-insured reports.
296-18A-450 Vocational rehabilitation plan.
296-18A-460 Audits.
296-18A-470 Disputes.
296-18A-480 Responsibilities.
296-18A-490 Billing for vocational services.
296-18A-500 Self-insurers.
296-18A-510 Vocational rehabilitation counselor qualifications.
296-18A-515 Period of registration.
296-18A-520 Job modification assistance.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-18A-010 General information. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-010 (codified as WAC 296-18A-010), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-020 Vocational rehabilitation advisory committee. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-020 (codified as WAC 296-18A-020), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-040 Definitions. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-040 (codified as WAC 296-18A-040), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-070 Application of certain timetables. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-070 (codified as WAC 296-18A-070), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-080 Referral and initial contact. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-080 (codified as WAC 296-18A-080), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-090 Initial evaluations. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-090 (codified as WAC 296-18A-090), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-100 Rehabilitation plans. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-100 (codified as WAC 296-18A-100), filed 11/30/82.]

Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-110 Modification to the rehabilitation plan. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-110 (codified as WAC 296-18A-110), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-120 Plan completion. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-120 (codified as WAC 296-18A-120), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-130 Application of certain timetables (self-insured claims). [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-130 (codified as WAC 296-18A-130), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-140 Return to work summary report (self-insured claims). [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-140 (codified as WAC 296-18A-140), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-160 Progress reports (self-insured claims). [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-160 (codified as WAC 296-18A-160), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-170 Return to work (self-insured claims). [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-170 (codified as WAC 296-18A-170), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-180 Vocational rehabilitation plan. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-180 (codified as WAC 296-18A-180), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-190 Responsibility of the injured worker. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-190 (codified as WAC 296-18A-190), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-200 Failure to meet responsibilities. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-200 (codified as WAC 296-18A-200), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-210 Resolution of vocational rehabilitation disputes. [Statutory Authority: RCW 51.04.020, 51.41.020 and 51.41.060. 83-17-110 (Order 83-25), § 296-18-210, filed 8/24/83. Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-210 (codified as WAC 296-18A-210), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-300 Registration of vocational rehabilitation counselors. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-300 (codified as WAC 296-18A-300), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-310 Qualifications for registration of vocational rehabilitation counselors. [Statutory Authority: RCW 51.04.020, 51.41.010 and 51.41.030. 83-17-051 (Order 83-24), § 296-18-310, filed 8/16/83. Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-310 (codified as WAC 296-18A-310), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-320 Qualifications for the registration of vocational rehabilitation firms. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-320 (codified as WAC 296-18A-320), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-330 Availability of the register. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-330 (codified as WAC 296-18A-330), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-340 Immediate deregistration. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-340 (codified as WAC 296-18A-340), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-350 Performance evaluations and deregistration. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-350 (codified as WAC 296-18A-350), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-360 Petition for reconsideration of the intent to remove. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-360 (codified as WAC 296-18A-360), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-370 Period of deregistration. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-370 (codified as WAC 296-18A-370), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-400 Job modification assistance. [Statutory Authority: RCW 51.41.030. 82-24-055 (Order 82-40), § 296-18-400 (codified as WAC 296-18A-400), filed 11/30/82.] Repealed by 85-17-022 (Order 85-20), filed 8/13/85. Statutory Authority: RCW 51.32.095.

296-18A-465 Request for proposal. [Statutory Authority: RCW 51.16.120(3) and 51.32.095. 88-21-022 (Order 88-24), § 296-18A-465, filed 10/10/88. Statutory Authority: RCW 51.32.095 and 51.04.030. 87-10-071 (Order 87-14), § 296-18A-465, filed 5/6/87.] Repealed by 92-19-026, filed 9/8/92, effective 10/9/92. Statutory Authority: RCW 51.04.020

WAC 296-18A-420 Definitions. (1) "Employable" means having the skills and training that are commonly and currently necessary in the labor market to be gainfully employed on a reasonably continuous basis when considering the worker's: Age, education, experience, and physical and mental capabilities due to the industrial injury or subsequent reopening.

(2) "Gainful employment" means any occupation, not to exclude self-employment, which allows a worker to be compensated with wages or other earnings considering RCW 51.12.010.

(3) "Formal program" means an approved rehabilitation plan and the contents thereof as described in WAC 296-18A-450 that provides services necessary and likely to enable the injured worker to be employable at gainful employment.

(4) "Vocational rehabilitation counselor" means those persons determined by the department to have met the requirements of these rules regarding experience and training which qualify them to aid the injured workers to become employable at gainful employment.

(5) "Vocational rehabilitation provider" means any vocational rehabilitation counselor or firm that has a vendor number to bill for services the Washington department of labor and industries.

(6) "Vocational rehabilitation firm" means any entity comprised of vocational rehabilitation counselors that has a vendor number whether sole proprietorship, partnership, or corporation.

(7) "Vocational rehabilitation services" means services that are designed to enable the injured worker to become employable at gainful employment. The services may include, but not be limited to vocational evaluation, vocational counseling, job analysis, job modification, on-the-job training, or short-term training programs with job placement services provided.

(8) "Referral source" means either the state fund or self-insurer.

[Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-420 (codified as WAC 296-18A-420), filed 8/13/85.]

WAC 296-18A-440 Reports. The following reports are required from the vocational rehabilitation provider for state fund referrals.

(1) Progress reports. Unless otherwise authorized by the claim manager, in writing, plan development progress reports are to be submitted at thirty day intervals; with plan implementation progress reports submitted at sixty day intervals. These reports should be submitted to the department through VOC-LINK when possible. Progress reports will follow a department approved format. The referral source is to be notified immediately of factors affecting plan completion or changes of status or changes in plan costs.

(2) Closing report. Upon completion of vocational rehabilitation services, a closing report to the referral source shall be submitted by the vocational rehabilitation provider. That report shall contain at least the following:

(a) Assessment of the injured worker's employability status at the time of completion of vocational services;

(b) Whether or not the injured worker has returned to work;

(c) Any remaining barriers to the injured worker becoming employable at gainful employment;

(d) An ability to work summary may be substituted for a closing report.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-440, filed 6/25/90, effective 8/1/90. Statutory Authority: RCW 51.16.120(3) and 51.32.095. 88-21-022 (Order 88-24), § 296-18A-440, filed 10/10/88. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-440 (codified as WAC 296-18A-440), filed 8/13/85.]

WAC 296-18A-445 Self-insured reports. The following reports are required from the self-insurer to be sent to the self-insurance section.

(1) Self-insured rehabilitation referral. A form submitted no later than after paying ninety continuous days of time loss after the initial filing or reopening of a claim. If more time is necessary, an extension may be requested on this form. The format for this form will be supplied by the department.

(2) Employability assessment report. If a vocational referral is not being made and an extension of time is not necessary, this form must be completed and submitted to the self-insured section no later than after paying ninety continuous days of time loss after the initial filing or reopening of a claim. The format for this form will be supplied by the department.

(3) A vocational rehabilitation plan shall be submitted to the self-insurance section by the self-insurer no later than ten calendar days after being signed by the injured worker, vocational rehabilitation provider and the employer. The plan will follow the criteria established in WAC 296-18A-450.

(4) Closing report. Upon completion of a formal program, the self-insurer will submit the closing report to the department. The closing report must follow the criteria as outlined in WAC 296-18A-440(3) [296-18A-440(2)].

(5) Rehabilitation outcome report. This form is to be submitted with the final self-insurer's report on occupational injury or disease (SIF-5) or, in the case of medical only claims, with the self-insurers accident report (SIF-2), which is submitted at the time of claim closure. The format for this form will be supplied by the department and applies to all claims where vocational rehabilitation services have been provided.

[Statutory Authority: RCW 51.04.020. 88-12-096 (Order 88-07), § 296-18A-445, filed 6/1/88. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-445 (codified as WAC 296-18A-445), filed 8/13/85.]

WAC 296-18A-450 Vocational rehabilitation plan. (1) A vocational rehabilitation plan shall be approved by the referral source prior to its implementation. After the plan has been approved by the referral source, injured worker and vocational rehabilitation counselor, a copy of it shall be sent to all individuals with responsibilities under it. The plan shall contain the following:

(a) Assessment of the skills and abilities, based on the physical capacities and mental status, aptitudes, and transferrable skills of the injured worker;

(b) The services necessary to enable the injured worker to become employable at gainful employment;

(c) Labor market information indicating the employability of the injured worker at plan completion;

(d) An estimate of the cost and the time necessary for the completion of the plan;

(e) A direct comparison of the injured worker's skills with potential types of employment to demonstrate a likelihood of success;

(f) If necessary, a job analysis of the injured worker's previous occupation, including earnings, may be included; and

(g) Any other information that will significantly affect the plan.

(2) The following priorities shall be addressed and justification given to why each preceding priority was not used.

(a) Return to the previous job with the same employer;

(b) Modification of the previous job with the same employer including transitional return to work;

(c) A new job with the same employer in keeping with any limitations or restrictions;

(d) Modification of a new job with the same employer including transitional return to work;

(e) Modification of the previous job with a new employer;

(f) A new job with a new employer or self-employment based upon transferable skills;

(g) Modification of a new job with a new employer;

(h) A new job with a new employer or self-employment involving on-the-job training; and

(i) Short-term retraining and job placement.

(3) Each plan shall be signed by the vocational rehabilitation counselor and the injured worker. In state fund cases, a copy will be sent to the employer, attending physician, department, injured worker and any parties with responsibilities within the plan by the vocational rehabilitation counselor. The following statement shall be printed above the signatures:

> I have read the above plan and understand its contents. By signing this plan I agree to faithfully execute my responsibilities described in it.

(4) If the plan is interrupted for good cause this case will be returned to the referral source at the discretion of the referral source. At the end of such interruption, the referral source may return the referral to the original vocational provider to resume the plan or its preparation.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-450, filed 6/25/90, effective 8/1/90. Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-18A-450, filed 6/24/88. Statutory Authority: RCW 51.04.020(4) and 51.040.030 [51.04.030]. 87-08-004 (Order 87-09), § 296-18A-450, filed 3/20/87. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-450 (codified as WAC 296-18A-450), filed 8/13/85.]

WAC 296-18A-460 Audits. In order to ensure compliance with the provisions of chapter 296-18A WAC, every vocational rehabilitation provider used by the department shall be subject to an audit of their facilities and files. Audits may be conducted upon petition or upon the department's own initiative. Audits may be for cause or at random and may consist of, but not be limited to, an on-site evaluation of each provider's facilities, files and records, including the accuracy of the records and the accuracy of billing for services. The vocational rehabilitation provider shall receive written notice at least forty-eight hours in advance of such audit.

The audit of vocational rehabilitation providers at locations outside the state of Washington shall be at the expense of the provider and the expense incurred in making such audit shall be paid by the provider.

Such expenses shall be calculated at the usual and normal per diem and travel expense rates established by law and in effect at the time the expenses are incurred.

[Statutory Authority: RCW 51.04.020. 92-19-026, § 296-18A-460, filed 9/8/92, effective 10/9/92. Statutory Authority: RCW 51.16.120(3) and 51.32.095. 88-21-022 (Order 88-24), § 296-18A-460, filed 10/10/88. Statutory Authority: RCW 51.32.095 and 51.04.030. 87-10-070 (Order 87-13), § 296-18A-460, filed 5/6/87. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-460 (codified as WAC 296-18A-460), filed 8/13/85.]

WAC 296-18A-470 Disputes. (1) In order to avoid delay in the vocational rehabilitation process and to allow resolution of disputes between the injured workers, employers and the referral source, a dispute resolution process is provided. The time limits in this section may be extended by the office of rehabilitation services when good cause is shown.

(2) The director must receive a dispute of the employability determination or formal plan, in writing, within fifteen calendar days from receipt of notification to the worker or employer. The dispute must include reasons for the request. The director, at his or her sole discretion, may initiate an investigation to determine further action on the request. A copy of all disputes received shall be sent to all interested parties.

(3) If necessary, and at the discretion of the director, the office of rehabilitation services will communicate with the aggrieved parties to attempt to resolve the dispute. If the dispute is not resolved, the director in his or her sole discretion may take such other action that he or she considers appropriate to protect the rights of the parties. The director shall inform the aggrieved parties of what action, if any was taken within thirty calendar days of receipt of the dispute from the aggrieved party.

[Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-470 (codified as WAC 296-18A-470), filed 8/13/85.]

WAC 296-18A-480 Responsibilities. All parties will have the following responsibilities in assisting the injured worker to become employable at gainful employment:

(1) The attending physician shall maintain open communication with the injured worker's assigned vocational rehabilitation counselor and the referral source. The attending physician shall respond to any requests for information in a timely fashion and will do all that is possible to expedite the vocational rehabilitation process, including making an estimate of physical capacities or restrictions. The attending physician may review the vocational plan, and if the attending physician feels that the injured worker is not physically capable of carrying out the plan, or the plan is unnecessary, based on current medical findings, shall notify the referral source immediately of this opinion with the reasons for such opinion.

(2) The claims unit within the department shall:

(a) Notify the employer of the referral to a vocational rehabilitation provider;

(b) Send the employer a copy of the closing report; and

(c) Give written notice to an injured worker if a complaint of noncooperation has been made.

(3) The employer shall assist the vocational rehabilitation counselor in any way necessary to collect data regarding the former gainful employment of the injured worker. Further, the employer will assist the vocational rehabilitation counselor and attending physician to determine whether or not a modified job could be made available for employment of the injured worker.

(4) The injured worker shall cooperate with all reasonable requests from all responsible individuals in determining disability, developing and implementing the rehabilitation process. Should the injured worker fail to be cooperative, the sanctions as set out in RCW 51.32.110 shall be applied.

(5) In assisting the injured worker to become employable at gainful employment, the provider is to follow the priorities as set out in RCW 51.32.095. Vocational rehabilitation providers actually assisting the injured worker shall have the burden of showing that they meet the qualifications to be a vocational rehabilitation counselor as set out in these rules. The vocational rehabilitation provider shall comply with all the rules in chapter 296-18A WAC and Title 51 RCW, whether the injured worker is referred by the department or a self-insurer under the following criteria:

(a) Develop a formal program to assist the eligible injured worker to become employable at gainful employment;

(b) Maintain accurate records that will be periodically reviewed by department staff;

(c) Notify the referral source of noncooperative behavior on the part of the injured worker;

(d) Keep all parties informed of the progress and development of the formal program; and

(e) Assist/instruct any person, company, or firm utilized in a formal program and/or job modification in the proper procedure for requesting a provider number and completing and submitting the appropriate bill for services.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-480, filed 6/25/90, effective 8/1/90. Statutory Authority: RCW 51.16.120(3) and 51.32.095. 88-21-022 (Order 88-24), § 296-18A-480, filed 10/10/88. Statutory Authority: RCW 51.04.020(4) and 51.040.030 [51.04.030]. 87-08-004 (Order 87-09), § 296-18A-480, filed 3/20/87. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-480 (codified as WAC 296-18A-480), filed 8/13/85.]

WAC 296-18A-490 Billing for vocational services. (1) Vocational rehabilitation providers must comply with the rules contained in chapter 296-20 WAC as they pertain.

(2) Vocational rehabilitation providers must carry general liability insurance, automobile liability insurance, errors and omission/malpractice insurance, and industrial insurance if required by Title 51 RCW.

(3) All vocational services must be prior authorized by the referral source, except immediate job placement. If immediate job placement activities exceed thirty days, authorization must be obtained for further services.

(4) Charges for the following are considered overhead and will not be paid:

(a) Administrative and supervisory salaries and related personnel expenses;

(b) Office rent;

(c) Depreciation;

(d) Equipment purchase and rental;

(e) Telephone expenses including long distance phone call charges;

(f) Postage;

(g) Shipping;

(h) Expendable supplies;

(i) Printing costs;

(j) Copier costs;

(k) Maintenance and repair;

(l) Taxes;

(m) Automobile costs and maintenance;

(n) Insurance;

(o) Dues and subscriptions;

(p) Professional services;

(q) Vacation, sick leave, and other expenses of a similar nature;

(r) Internal staffing time;

(s) Filing of material in case files, setting up files;

(t) Activities associated with reports other than writing or dictating original draft of the report (e.g., editing, filing, distribution, revising, typing, and mailing);

(u) Generating and keeping internal recordkeeping forms;

(v) Time spent on any administrative and clerical activity, including typing, copying, mailing, distributing, filing, payroll, recordkeeping, delivering mail, picking up mail;

(w) Activities associated with counselor training, general discussion regarding office procedures, internal case file reviews by supervisors, meetings, and seminars;

(x) Unanswered phone calls; and

(y) Any other item or service not specifically identified and separately billable.

(5) All bills must be itemized on referral source approved bill forms. The billed charges must be justified in the provider's case records and be consistent with written reports. If charges are not documented, or justified, or consistent, payment may be reduced, denied, or recouped.

(6) Vocational services must be billed using procedure codes, fees, and methods provided by the department of labor and industries. The department will publish codes, fees, and procedures and provide this information to all vocational rehabilitation providers receiving department referrals. Fees shall be established by the department and reviewed at regular intervals.

[Statutory Authority: RCW 51.32.095, 51.04.030, 51.36.100 and 51.36.110. 87-10-072 (Order 87-15), § 296-18A-490, filed 5/6/87. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-490 (codified as WAC 296-18A-490), filed 8/13/85.]

WAC 296-18A-500 Self-insurers. (1) No later than paying ninety continuous days of time loss following the initial filing or reopening of a claim, the self-insurer shall notify the self-insurance section as to whether or not vocational rehabilitation services are necessary and likely to enable the injured worker to become employable at gainful employment. Each of these cases will be reviewed by the self-insurance section. The criteria outlined in RCW 51.32.095, WAC 296-18A-420 and department guidelines must be followed to determine employability. If the injured worker is determined employable, the self-insurer will submit an employability assessment form which contains objective reasons why the injured worker is employable. Within twenty calendar days of receipt of an employability assessment form, the supervisor's designee within the self-insurance section will inform the self-insurer and the injured worker as to whether or not self-insurers determination of employability is approved. If an employability determination cannot be made due to medical instability, the self-insured shall request an extension by notifying the self-insurance section of the injured worker's condition and when a determination can be made. If the request for extension is not approved, notice will be sent within fifteen calendar days of receipt.

(2) The supervisor's designee within the self-insurance section of the department will receive from the self-insurer the vocational rehabilitation plan signed by the injured worker and employer. Within ten calendar days of receipt of the vocational plan, the supervisor's designee will inform the self-insurer, the vocational rehabilitation counselor and the injured worker that the plan has been received. A review of the vocational rehabilitation plan by the supervisor's designee will be initiated upon request by the employer or the injured worker. Reasons for the review must be stated in writing. A request for a plan review must be made prior to completion or termination of the plan. If necessary, conflict resolution techniques, such as conferences and fact-finding, will be used in order to resolve problems with the plan in as fair and expedient manner as possible. The supervisor's designee shall notify the parties of the plan review results no later than sixty days from the date the request was received.

Disputes of the supervisor's designee's determination must be submitted to the director in accordance with WAC 296-18A-470.

(3) Upon completion of the formal program, the self-insurer will submit to the self-insurance section a closing report. Within ten calendar days of receipt of the closing

report, the supervisor's designee shall inform the injured worker and employer that vocational services have concluded.

(4) The self-insurer shall provide the self-insurance section with a rehabilitation outcome report on a form prescribed by the department. The rehabilitation outcome report shall be attached to the final self-insurer's report on occupational injury or disease (SIF-5) or, in the case of medical only claims, with the self-insurers accident report (SIF-2), which is submitted at the time of claim closure. A rehabilitation outcome report will be submitted on all claims where vocational rehabilitation services have been provided.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-500, filed 6/25/90, effective 8/1/90; 88-12-096 (Order 88-07), § 296-18A-500, filed 6/1/88. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-500 (codified as WAC 296-18A-500), filed 8/13/85.]

WAC 296-18A-510 Vocational rehabilitation counselor qualifications. (1) All vocational rehabilitation counselors who are registered by the department, will be placed on a list and be eligible to receive referrals. The referral source may only refer to vocational counselors on the list. The department is not obligated to make referrals to anyone on this list.

(2) When it is determined an injured worker is eligible for vocational rehabilitation services, the referral source shall authorize such services. Selection of the appropriate provider of vocational services is at the sole discretion of the referral source. Selected vocational rehabilitation counselors must meet one or more of the following categories of experience and education:

(a) A doctorate or masters degree in rehabilitation counseling, psychology, counseling and guidance, social work, or educational psychology; and a minimum of one year of experience in vocational counseling, job placement, vocational assessment, or other documented areas of vocational rehabilitation services with industrially injured workers;

(b) A masters degree with twenty-four credit hours in a combination of rehabilitation philosophy, rehabilitation history, rehabilitation ethics, medical aspects of disability, psychological aspects of disability, job placement, occupational information, counseling theory, personal and vocational adjustment, work evaluation, practicum in subjects listed in this subsection, or coursework relating to counseling and subjects listed in this subsection; and a minimum of two years of experience in vocational counseling, job placement, vocational assessment, or other documented areas of vocational rehabilitation services with industrially injured workers;

(c) A bachelors degree in rehabilitation counseling, psychology, counseling and guidance, social work, or educational psychology; and a minimum of two years of experience in vocational counseling, job placement, vocational assessment, or other documented areas of vocational rehabilitation services with industrially injured workers; or

(d) A bachelors degree with twenty-four credit hours in a combination of rehabilitation philosophy, rehabilitation history, rehabilitation ethics, medical aspects of disability, psychological aspects of disability, job placement, occupational information, counseling theory, personal and vocational adjustment, work evaluation, practicum in subjects listed in this subsection, or coursework relating to counseling and subjects listed in this subsection; and a minimum of three years of experience in vocational counseling, job placement, vocational assessment, or other documented areas of vocational rehabilitation services; with industrially injured workers.

(3) An intern is an individual who meets the minimum educational requirements as set forth in subsection (2)(a) through (d) of this section, but not the experience requirements. When the intern is employed, the vocational rehabilitation provider shall provide the name of the intern's supervisor. The intern supervisor will be responsible for all rehabilitation work done by the intern. The intern supervisor will cosign all reports submitted by the intern. The intern must be designated as such on all reports. At the end of the time requirement the intern may apply for or identification number as a fully qualified vocational rehabilitation counselor.

The period of internship shall be not less than one year during which the intern shall satisfactorily complete a training curriculum as approved by the department. At the completion of this curriculum and a satisfactory performance evaluation from the intern's supervisor, the intern may petition to the department to be registered as a fully qualified vocational rehabilitation counselor.

(4) In order to receive or maintain a provider account number, the provider shall submit an application form provided by the department. The owner or legal representative of the provider must sign the application form. The provider shall also submit the names and signatures of all counselors working for the provider. The provider shall also submit official sealed copies of each counselor's college transcripts unless the counselor is already on the department's vocational rehabilitation counselor list, the department having completed a check of qualifications and having sent written notice of their acceptance. If counselors employed by the provider are not on the department's vocational rehabilitation counselor list, completed applications signed by each counselor must be submitted on a form provided by the department. The application form must include a statement of each counselor's experience providing vocational rehabilitation to industrially injured workers and the names of former and current employers and supervisors.

(5) It is the responsibility of the vocational counselor and provider to be familiar with the industrial insurance rules and laws of the state of Washington. The vocational counselor and provider must act in a professional manner and comply with the code of professional ethics for vocational rehabilitation counselors.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-510, filed 6/25/90, effective 8/1/90. Statutory Authority: RCW 51.32.095. 87-10-073 (Order 87-16), § 296-18A-510, filed 5/6/87; 85-17-022 (Order 85-20), § 296-18-510 (codified as WAC 296-18A-510), filed 8/13/85.]

WAC 296-18A-515 Period of registration. (1) The period of registration for vocational rehabilitation counselors shall be two years.

(2) In order to maintain his or her registration with the department, the vocational rehabilitation counselor must complete forty continuing education units (CEUs) within the two-year registration period.

(a) The forty continuing education units must relate to the field of vocational rehabilitation; and

(b) Are subject to approval by the department.

(3) Any vocational rehabilitation counselor that has not provided vocational rehabilitation services to a Washington state industrially injured worker, and has not completed the forty continuing education units as stated in subsection (2) of this section within each two-year period, shall have his/her registration with the department terminated.

(a) For new vocational rehabilitation counselors the two-year time period shall start upon approval of their application by the department.

(b) For vocational rehabilitation counselors who are registered at the time this rule takes effect, the two-year time period shall start on their next birthday.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-515, filed 6/25/90, effective 8/1/90.]

WAC 296-18A-520 Job modification assistance. (1) As provided for in section 13, chapter 63, Laws of 1982 (RCW 51.32.250), the supervisor or supervisor's designee in his or her discretion may pay job modification costs in an amount not to exceed five thousand dollars from the department per worker per job modification. This payment is intended to be a cooperative participation with the employer and funds shall be taken from the appropriate account within the second injury fund. The employer may add to this amount with their own contribution.

(2) An employer requesting job modification assistance must submit to the department a job modification assistance application.

(3) The job modification assistance application shall include, but not be limited to:

(a) A document supporting the need for job modification;

(b) A description of the job modification; and

(c) An itemized account of each expense to be incurred in the job modification. Job modification assistance applications shall be submitted on a form prescribed by the department.

(4) The supervisor or supervisor's designee shall accept, reject, or modify the job modification application within thirty days of receipt. Notification of the supervisor's acceptance, rejection, or modification shall be in writing.

(5) No employer/employee relationship need exist if the modification is used to assist in the successful completion of vocational rehabilitation services as authorized by chapter 51.32 RCW.

[Statutory Authority: RCW 51.04.020. 90-14-009, § 296-18A-520, filed 6/25/90, effective 8/1/90. Statutory Authority: Chapters 51.08 and 51.32 RCW. 88-14-011 (Order 88-13), § 296-18A-520, filed 6/24/88. Statutory Authority: RCW 51.32.095. 85-17-022 (Order 85-20), § 296-18-520 (codified as WAC 296-18A-520), filed 8/13/85.]

Chapter 296-20 WAC
MEDICAL AID RULES

WAC

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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-20-040 Modalities not requiring prior authorization after sixty days. [Order 68-7, § 296-20-040, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71.

296-20-050 Periodical clinical reports. [Order 68-7, § 296-20-050, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-061.

296-20-060 Fees for concurrent treatment. [Order 68-7, § 296-20-060, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-071.

296-20-061 Periodic clinical progress reports. [Order 71-6, § 296-20-061, filed 6/1/71; Order 70-12, § 296-20-061, filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-050.] Repealed by Order 74-39, filed 11/22/74.

296-20-070 Consultations. [Order 68-7, § 296-20-070, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-051.

296-20-080 Private room—Special nurses. [Order 68-7, § 296-20-080, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-091.

296-20-085 Isolation of infected cases. [Order 71-6, § 296-20-085, filed 6/1/71; Order 70-12, § 296-20-085, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-085, filed 11/27/68, effective 1/1/69.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3).

296-20-090 Reopenings. [Order 68-7, § 296-20-090, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-097.

296-20-095 Unrelated elective surgery. [Order 68-7, § 296-20-095, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71. Later promulgation, see WAC 296-20-081.

296-20-105 Laboratory. [Order 68-7, § 296-20-105, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71.

296-20-115 Flat fees. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-115, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-115, filed 6/1/71; Order 70-12, § 296-20-115, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-115, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-20-12502 Physician assistant modifiers. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-12502, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-12502, filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-12502, filed 11/30/79, effective 1/1/80.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-20-130 Medical aid contracts. [Order 74-7, § 296-20-130, filed 1/30/74; Order 70-12, § 296-20-130, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-130, filed 11/27/68, effective 1/1/69.] Repealed by Order 77-27, filed 11/30/77, effective 1/1/78.

296-20-131 Advance authorization required for nonstandard treatment. [Order 74-7, § 296-20-131, filed 1/30/74.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-20-140 Conversion factor table—Anesthesia. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-004 (Order 86-45), § 296-20-140, filed 1/8/87; 83-24-016 (Order 83-35), § 296-20-140, filed 11/30/83, effective 1/1/84; 82-24-050 (Order 82-39), § 296-20-140, filed 11/29/82, effective 7/1/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-140, filed 11/30/81, effective 1/1/82; 80-18-033 (Order 80-24), § 296-20-140, filed 12/1/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-140, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-20-140, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-140, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-140, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-20-140, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-20-140, filed 1/30/74.] Repealed by 88-24-011 (Order 88-28), filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-20-14001 Conversion factor table—Hospital. [Order 75-39, § 296-20-14001, filed 11/28/75, effective 1/1/76.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-20-145 Conversion factor table—Surgery. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-004 (Order 86-45), § 296-20-145, filed 1/8/87; 83-24-016 (Order 83-35), § 296-20-145, filed 11/30/83, effective 1/1/84; 82-24-050 (Order 82-39), § 296-20-145, filed 11/29/82, effective 7/1/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-145, filed 11/30/81, effective 1/1/82; 80-18-033 (Order 80-24), § 296-20-145, filed 12/1/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-145, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-20-145, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-145, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-145, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-145, filed 1/30/74.] Repealed by 88-24-011 (Order 88-28), filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-20-150 Conversion factor table—Radiology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-004 (Order 86-45), § 296-20-150, filed 1/8/87; 83-24-016 (Order 83-35), § 296-20-150, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-150, filed 11/30/81, effective 1/1/82; 80-18-033 (Order 80-24), § 296-20-150, filed 12/1/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-150, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-20-150, filed 11/30/77, effective 1/1/78; Order 76-34, §

296-20-150, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-150, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-150, filed 1/30/74.] Repealed by 88-24-011 (Order 88-28), filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-20-155 Conversion factor table—Pathology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-004 (Order 86-45), § 296-20-155, filed 1/8/87; 83-24-016 (Order 83-35), § 296-20-155, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-155, filed 11/30/81, effective 1/1/82; 80-18-033 (Order 80-24), § 296-20-155, filed 12/1/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-155, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-20-155, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-155, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-20-155, filed 1/30/74.] Repealed by 88-24-011 (Order 88-28), filed 12/1/88, effective 1/1/89. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-20-17003 Fees. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-20-17003, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 80-18-033 (Order 80-24), § 296-20-17003, filed 12/1/80, effective 1/1/81; Order 77-27, § 296-20-17003, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-17003, filed 11/24/76, effective 1/1/77.] Repealed by 95-16-031, filed 7/21/95, effective 8/22/95. Statutory Authority: RCW 51.04.030, 70.14.050 and 51.04.020(4).

WAC 296-20-010 General information. (1) The following rules are promulgated pursuant to RCW 51.04.020 and 51.04.030. The department or self-insurer may purchase necessary physician and other provider services according to the fee schedules. The fee schedules shall be established in consultation with interested persons and updated at times determined by the department in consultation with those interested persons. Prior to the establishment or amendment of the fee schedules, the department will give at least thirty calendar days notice by mail to interested persons who have made timely request for advance notice of the establishment or amendment of the fee schedules. To request advance notice of the establishment or amendment of the fee schedules, interested persons must contact the department at the following address:

Department of Labor and Industries
Health Services Analysis
Interested Person's Mailing List for the Fee Schedules
P.O. Box 44322
Olympia, WA 98504-4322

The department or self-insurer will require the current version of the federal Health Care Financing Administration's Common Procedure Coding System (HCPCS) Level I (or CPT) and II codes on January 1, of each new year. CPT refers to the American Medical Association's Physicians' Current Procedural Terminology codes.

The department and self-insurer will allow a "grace period" in which codes deleted each year may be submitted for payment. This grace period will start on January 1 of each year and the length of time will be determined by department policy.

The adoption of these codes on an annual basis is designed to reduce the administrative burden on providers and lead to more accurate reporting of services. However, the inclusion of a service, product or supply within these new codes does not necessarily imply coverage, reimbursement or endorsement, by the department or self-insurer. The department will make coverage and reimbursement decisions for these new codes on an individual basis.

If there are any services, procedures or narrative text contained in the new HCPCS Level I and II codes that conflict with the medical aid rules or fee schedules, the department's rules and policies take precedence.

Copies of the HCPCS Level I and II codes are available for public inspection. These documents are available in each of the department's service locations.

Copies of the HCPCS Level II codes may be purchased from:

The Superintendent of Documents
United States Government Printing Office
Washington, DC 20402
(202) 783-3238

Copies of the Level I (or CPT) codes may be purchased from:

The American Medical Association
Chicago, Illinois 60601
(800) 621-8335

In addition to the sources listed above, both the Level I and II codes may be purchased from a variety of private sources.

(2) The fee schedules are intended to cover all services for accepted industrial insurance claims. All fees listed are the maximum fees allowable. Practitioners shall bill their usual and customary fee for services. **If a usual and customary fee for any particular service is lower to the general public than listed in the fee schedules, the practitioner shall bill the department or self-insurer at the lower rate.** The department or self-insurer will pay the lesser of the billed charge or the fee schedules' maximum allowable.

(3) The rules contained in the introductory section pertain to *all* practitioners regardless of specialty area or limitation of practice. Additional rules pertaining to specialty areas will be found in the appropriate section of the medical aid rules.

(4) The methodology for making conversion factor cost of living adjustments is listed in WAC 296-20-132. The conversion factors are listed in WAC 296-20-135.

(5) No fee is payable for missed appointments unless the appointment is for an examination arranged by the department or self-insurer.

(6) When a claim has been accepted by the department or self-insurer, no provider or his/her representative may bill the worker for the difference between the allowable fee and the usual and customary charge. Nor can the worker be charged a fee, either for interest or completion of forms, related to services rendered for the industrial injury or condition. Refer to chapter 51.04 RCW.

(7) Practitioners must maintain documentation in claimant medical or health care service records adequate to verify the level, type, and extent of services provided to claimants. A health care practitioner's bill for services, appointment book, accounting records, or other similar methodology do

not qualify as appropriate documentation for services rendered. Refer to chapter 296-20 WAC and department policy for reporting requirements.

(8) Except as provided in WAC 296-20-055 (Limitation of treatment and temporary treatment of unrelated conditions when retarding recovery), practitioners shall bill, and the department or self-insurer shall pay, only for proper and necessary medical care required for the diagnosis and curative or rehabilitative treatment of the accepted condition.

(9) When a worker is being treated concurrently for an unrelated condition the fee allowable for the service(s) rendered must be shared proportionally between the payors.

(10) Correspondence: Correspondence pertaining to state fund and department of energy claims should be sent to: Department of Labor and Industries, Claims Administration, P.O. Box 44291, Olympia, Washington 98504-4291.

Accident reports should be sent to: Department of Labor and Industries, P.O. Box 44299, Olympia, Washington 98504-4299.

Send provider bills by type (UB-92) to: Department of Labor and Industries, P.O. Box 44266, Olympia, Washington 98504-4266.

Adjustments, Home Nursing and Miscellaneous to: Department of Labor and Industries, P.O. Box 44267, Olympia, Washington 98504-4267.

Pharmacy to: Department of Labor and Industries, P.O. Box 44268, Olympia, Washington 98504-4268.

HFCA to: Department of Labor and Industries, P.O. Box 44269, Olympia, Washington 98504-4269.

State fund claims have six digit numbers preceded by a letter other than "S, " "T, " or "V."

Department of energy claims have seven digit numbers with no letter prefix.

All correspondence and billings pertaining to *crime victims* claims should be sent to Crime Victims Division, Department of Labor and Industries, P.O. Box 44520, Olympia, Washington 98504-4520.

Crime victim claims have six digit numbers preceded by a "V."

All correspondence and billings pertaining to self-insured claims should be sent directly to the employer or the service representative as the case may be.

Self-insured claims are six digit numbers preceded by a "S, " or "T."

Communications to the department or self-insurer must show the patient's full name and claim number. If the claim number is unavailable, providers should contact the department or self-insurer for the number, indicating the patient's name, Social Security number, the date and the nature of the injury, and the employer's name. A communication should refer to one claim only. Correspondence must be legible and reproducible, as department records are microfilmed. Correspondence regarding specific claim matters should be sent directly to the department in Olympia or self-insurer in order to avoid rehandling by the service location.

(11) The department's various local service locations should be utilized by providers to obtain information, supplies, or assistance in dealing with matters pertaining to industrial injuries.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 96-10-086, § 296-20-010, filed 5/1/96, effective 7/1/96. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-14-044, § 296-20-010, filed 6/29/94, effective 7/30/94; 93-16-072, § 296-20-010, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-20-010, filed 12/1/92, effective 1/1/93; 90-04-057, § 296-20-010, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-20-010, filed 11/30/87, effective 1/1/88; 86-20-074 (Order 86-36), § 296-20-010, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-20-010, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-010, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-010, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-010, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-010, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-010, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-010, filed 1/30/74; Order 70-12, § 296-20-010, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-010, filed 11/27/68, effective 1/1/69.]

WAC 296-20-0100 Chiropractic advisory committee. (1) The director or the director's designee shall appoint a chiropractic advisory and utilization review committee.

(2) The committee will function as an advisor to the department with respect to policies affecting chiropractic care, quality assurance, clinical management of cases, utilization review, and the establishment of rules. It shall advise and assist the department in the department's relationship with providers of chiropractic care, and assist the department in ensuring that injured workers receive good quality chiropractic care in a safe and effective manner.

(3) The chiropractic advisory committee shall:

(a) Advise the department on standards as to what constitutes effective and accepted chiropractic treatment, for use by attending chiropractors and for chiropractic consultants to use in reviewing cases referred for consultation;

(b) Advise the department on standards and minimum credentials for chiropractic consultants and the content of consultant reports; and

(c) Review the performance of individual chiropractors and chiropractic consultants for conformance with standards and requirements and advise the department of instances where standards and requirements have not been met.

The department shall review the advice and recommendations of the committee and shall promulgate those standards and requirements which it chooses to adopt. The department shall review the advice from the committee on the performance of chiropractors and shall act upon this advice at its sole discretion.

(4) The committee will meet on a monthly basis or as needed. The department will reimburse members of the committee for travel and incidental expenses related to the meetings.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 88-24-011 (Order 88-28), § 296-20-0100, filed 12/1/88, effective 1/1/89.] New 1989

WAC 296-20-01001 Medical advisory industrial insurance committee. (1) The Washington state medical association shall appoint an advisory and utilization review committee composed of nine members, one of whom shall be an osteopathic physician nominated by the Washington state osteopathic medical association. The remaining members should be selected from the following specialty groups: Family or general practice, orthopaedics, neurology or neuro-

surgery, general surgery, physical medicine and rehabilitation, psychiatry, internal medicine, and industrial medicine.

(2) The committee will function as an advisor to the department with respect to policies affecting medical care and rehabilitation, quality control and supervision of medical care, and the establishment of rules and regulations. It shall also advise and assist the department in the resolution of controversies, disputes and problems between the department and the providers of medical care. It will also advise and assist the department in the education of members of the medical community with regard to the roles of the physician, the department and the employer in providing the needs and care of the injured worker.

(3) The committee shall normally meet on a monthly basis or as necessity dictates. The department will reimburse members of the committee for each meeting.

[Order 77-27, § 296-20-01001, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-20-01001, filed 12/1/77; Emergency Order 77-16, § 296-20-01001, filed 9/6/77; Order 76-34, § 296-20-01001, filed 11/24/76, effective 1/1/77.]

WAC 296-20-01002 Definitions. Termination of treatment: When treatment is no longer required and/or the industrial condition is stabilized, a report indicating the date of stabilization should be submitted to the department or self-insurer. This is necessary to initiate closure of the industrial claim. The patient may require continued treatment for conditions not related to the industrial condition; however, financial responsibility for such care must be the patient's.

Unusual or unlisted procedure: Value of unlisted services or procedures should be substantiated "by report" (BR).

"**By report**": BR (by report) in the value column of the fee schedules indicates that the value of this service is to be determined by report (BR) because the service is too unusual, variable or new to be assigned a unit value. The report shall provide an adequate definition or description of the services or procedures that explain why the services or procedures (e.g., operative, medical, radiological, laboratory, pathology, or other similar service report) are too unusual, variable, or complex to be assigned a relative value unit, using any of the following as indicated:

(1) Diagnosis;

(2) Size, location and number of lesion(s) or procedure(s) where appropriate;

(3) Surgical procedure(s) and supplementary procedure(s);

(4) Whenever possible, list the nearest similar procedure by number according to the fee schedules;

(5) Estimated follow-up;

(6) Operative time;

(7) Describe in detail any service rendered and billed using an "unlisted" procedure code.

The department or self-insurer may adjust BR procedures when such action is indicated.

"**Independent or separate procedure**": Certain of the fee schedule's listed procedures are commonly carried out as an integral part of a total service, and as such do not warrant a separate charge. When such a procedure is carried out as a separate entity, not immediately related to other services, the indicated value for "independent procedure" is applicable.

Chart notes: This type of documentation may also be referred to as "office" or "progress" notes. Providers must maintain charts and records in order to support and justify the services provided. "Chart" means a compendium of medical records on an individual patient. "Record" means dated reports supporting bills submitted to the department or self-insurer for medical services provided in an office, nursing facility, hospital, outpatient, emergency room, or other place of service. Records of service shall be entered in a chronological order by the practitioner who rendered the service. For reimbursement purposes, such records shall be legible, and shall include but are not limited to:

(1) Date(s) of service;

(2) Patient's name and date of birth;

(3) Claim number;

(4) Name and title of the person performing the service;

(5) Chief complaint or reason for each visit;

(6) Pertinent medical history;

(7) Pertinent findings on examination;

(8) Medications and/or equipment/supplies prescribed or provided;

(9) Description of treatment (when applicable);

(10) Recommendations for additional treatments, procedures, or consultations;

(11) X-rays, tests, and results; and

(12) Plan of treatment/care/outcome.

Attending doctor report: This type of report may also be referred to as a "60 day" or "special" report. The following information must be included in this type of report. Also, additional information may be requested by the department as needed.

(1) The condition(s) diagnosed including ICD-9-CM codes and the objective and subjective findings.

(2) Their relationship, if any, to the industrial injury or exposure.

(3) Outline of proposed treatment program, its length, components, and expected prognosis including an estimate of when treatment should be concluded and condition(s) stable. An estimated return to work date should be included. The probability, if any, of permanent partial disability resulting from industrial conditions should be noted.

(4) If the worker has not returned to work, the attending doctor should indicate whether a vocational assessment will be necessary to evaluate the worker's ability to return to work and why.

(5) If the worker has not returned to work, a doctor's estimate of physical capacities should be included with the report. If further information regarding physical capacities is needed or required, a performance-based physical capacities evaluation can be requested. Performance-based physical capacities evaluations should be conducted by a licensed occupational therapist or a licensed physical therapist. Performance-based physical capacities evaluations may also be conducted by other qualified professionals who provided performance-based physical capacities evaluations to the department prior to May 20, 1987, and who have received written approval to continue supplying this service based on formal department review of their qualifications.

Consultation examination report: The following information must be included in this type of report. Addi-

tional information may be requested by the department as needed.

(1) A detailed history to establish:

(a) The type and severity of the industrial injury or occupational disease.

(b) The patient's previous physical and mental health.

(c) Any social and emotional factors which may effect recovery.

(2) A comparison history between history provided by attending doctor and injured worker, must be provided with exam.

(3) A detailed physical examination concerning all systems affected by the industrial accident.

(4) A general physical examination sufficient to demonstrate any preexisting impairments of function or concurrent condition.

(5) A complete diagnosis of all pathological conditions including ICD-9-CM codes found to be listed:

(a) Due solely to injury.

(b) Preexisting condition aggravated by the injury and the extent of aggravation.

(c) Other medical conditions neither related to nor aggravated by the injury but which may retard recovery.

(d) Coexisting disease (arthritis, congenital deformities, heart disease, etc.).

(6) Conclusions must include:

(a) Type treatment recommended for each pathological condition and the probable duration of treatment.

(b) Expected degree of recovery from the industrial condition.

(c) Probability, if any, of permanent disability resulting from the industrial condition.

(d) Probability of returning to work.

(7) Reports of necessary, reasonable x-ray and laboratory studies to establish or confirm the diagnosis when indicated.

Bundled codes: When a bundled code is covered, payment for them is subsumed by the payment for the codes or services to which they are incident. (An example is a telephone call from a hospital nurse regarding care of a patient. This service is not separately payable because it is included in the payment for other services such as hospital visits.) Bundled codes and services are identified in the fee schedules.

Fee schedules or maximum fee schedule(s): The fee schedules consist of, but are not limited to the following:

(a) Health Care Financing Administration's Common Procedure Coding System Level I and II Codes, descriptions and modifiers that describe medical and other services, supplies and materials.

(b) Codes, descriptions and modifiers developed by the department.

(c) Relative value units (RVUs), calculated or assigned dollar values, percent-of-allowed-charges (POAC), or diagnostic related groups (DRGs), that set the maximum allowable fee for services rendered.

(d) Billing instructions or policies relating to the submission of bills by providers and the payment of bills by the department or self-insurer.

(e) Average wholesale price (AWP), baseline price (BLP), and policies related to the purchase of medications.

Average wholesale price (AWP): A pharmacy reimbursement formula by which the pharmacist is reimbursed for the cost of the product plus a mark-up. The AWP is an industry benchmark which is developed independently by companies that specifically monitor drug pricing.

Baseline price (BLP): Is derived by calculating the mean average for all NDC's (National Drug Code) in a specific product group, determining the standard deviation, and calculating a new mean average using all prices within one standard deviation of the original mean average. "Baseline price" is a drug pricing mechanism developed and updated by First Data Bank.

Medical aid rules: The Washington Administrative Codes (WACs) that contain the administrative rules for medical and other services rendered to workers.

Modified work status: The worker is not able to return to their previous work, but is physically capable of carrying out work of a lighter nature. Workers should be urged to return to modified work as soon as reasonable as such work is frequently beneficial for body conditioning and regaining self confidence.

Under RCW 51.32.090, when the employer has modified work available for the worker, the employer must furnish the doctor and the worker with a statement describing the available work in terms that will enable the doctor to relate the physical activities of the job to the worker's physical limitations and capabilities. The doctor shall then determine whether the worker is physically able to perform the work described. The employer may not increase the physical requirements of the job without requesting the opinion of the doctor as to the worker's ability to perform such additional work. If after a trial period of reemployment the worker is unable to continue with such work, the worker's time loss compensation will be resumed upon certification by the attending doctor.

If the employer has no modified work available, the department should be notified immediately, so vocational assessment can be conducted to determine whether the worker will require assistance in returning to work.

Regular work status: The injured worker is physically capable of returning to his/her regular work. It is the duty of the attending doctor to notify the worker and the department or self-insurer, as the case may be, of the specific date of release to return to regular work. Compensation will be terminated on the release date. Further treatment can be allowed as requested by the attending doctor if the condition is not stationary and such treatment is needed and otherwise in order.

Total temporary disability: Full-time loss compensation will be paid when the worker is unable to return to any type of reasonably continuous gainful employment as a direct result of an accepted industrial injury or exposure.

Temporary partial disability: Partial time loss compensation may be paid when the worker can return to work on a limited basis or return to lesser paying job is necessitated by the accepted injury or condition. The worker must have a reduction in wages of more than five percent before consideration of partial time loss can be made. No partial time loss compensation can be paid after the worker's condition is stationary.

All time loss compensation must be certified by the attending doctor based on objective findings.

Permanent partial disability: Any anatomic or functional abnormality or loss after maximum rehabilitation has been achieved, which is determined to be stable or nonprogressive at the time the evaluation is made. When the attending doctor has reason to believe a permanent impairment exists, the department or self-insurer should be notified. Specified disabilities (amputation or loss of function of extremities, loss of hearing or vision) are to be rated utilizing a nationally recognized impairment rating guide. Unspecified disabilities (internal injuries, spinal injuries, mental health, etc.) are to be rated utilizing the category system detailed under WAC 296-20-200 et al. for injuries occurring on or after October 1, 1974. **Under Washington law disability awards are based solely on physical or mental impairment due to the accepted injury or conditions without consideration of economic factors.**

Total permanent disability: Loss of both legs or arms, or one leg and one arm, total loss of eyesight, paralysis or other condition permanently incapacitating the worker from performing any work at any gainful employment. When the attending doctor feels a worker may be totally and permanently disabled, the attending doctor should communicate this information immediately to the department or self-insurer. A vocational evaluation and an independent rating of disability may be arranged by the department prior to a determination as to total permanent disability. Coverage for treatment does not usually continue after the date an injured worker is placed on pension.

Fatal: When the attending doctor has reason to believe a worker has died as a result of an industrial injury or exposure, the doctor should notify the nearest department service location or the self-insurer immediately. Often an autopsy is required by the department or self-insurer. If so, it will be authorized by the service location manager or the self-insurer. Benefits payable include burial stipend and monthly payments to the surviving spouse and/or dependents.

Doctor: For these rules, means a person licensed to practice one or more of the following professions: Medicine and surgery; osteopathic medicine and surgery; chiropractic; naturopathic physician; podiatry; dentistry; optometry.

Only those persons so licensed may sign report of accident forms and time loss cards except as provided in chapter 296-20 WAC.

Health services provider or provider: For these rules means any person, firm, corporation, partnership, association, agency, institution, or other legal entity providing any kind of services related to the treatment of an industrially injured worker. It includes, but is not limited to, hospitals, medical doctors, dentists, chiropractors, vocational rehabilitation counselors, osteopathic physicians, pharmacists, podiatrists, physical therapists, occupational therapists, massage therapists, psychologists, naturopathic physicians, and durable medical equipment dealers.

Practitioner: For these rules, means any person defined as a "doctor" under these rules, or licensed to practice one or more of the following professions: Audiology; physical therapy; occupational therapy; pharmacy; prosthetics; orthotics; psychology; nursing; physician or osteopathic assistant; and massage therapy.

Physician: For these rules, means any person licensed to perform one or more of the following professions: Medicine and surgery; or osteopathic medicine and surgery.

Acceptance, accepted condition: Determination by a qualified representative of the department or self-insurer that reimbursement for the diagnosis and curative or rehabilitative treatment of a claimant's medical condition is the responsibility of the department or self-insurer. The condition being accepted must be specified by one or more diagnosis codes from the current edition of the International Classification of Diseases, Clinically Modified (ICD-CM).

Authorization: Notification by a qualified representative of the department or self-insurer that specific medically necessary treatment, services, or equipment provided for the diagnosis and curative or rehabilitative treatment of an accepted condition will be reimbursed by the department or self-insurer.

Medically necessary: Those health services are medically necessary which, in the opinion of the director or his or her designee, are:

(a) Proper and necessary for the diagnosis and curative or rehabilitative treatment of an accepted condition; and

(b) Reflective of accepted standards of good practice within the scope of the provider's license or certification; and

(c) Not delivered primarily for the convenience of the claimant, the claimant's attending doctor, or any other provider; and

(d) Provided at the least cost and in the least intensive setting of care consistent with the other provisions of this definition.

In no case shall services which are inappropriate to the accepted condition or which present hazards in excess of the expected medical benefits be considered medically necessary. Services which are controversial, obsolete, experimental, or investigational are presumed not to be medically necessary, and shall be authorized only as provided in WAC 296-20-03002(6).

Utilization review: The assessment of a claimant's medical care to assure that it is medically necessary and of good quality. This assessment typically considers the appropriateness of the place of care, level of care, and the duration, frequency or quantity of services provided in relation to the accepted condition being treated.

Emergent hospital admission: Placement of the worker in an acute care hospital for treatment of a work related medical condition of an unforeseen or rapidly progressing nature which if not treated in an inpatient setting, is likely to jeopardize the worker's health or treatment outcome.

Nonemergent (elective) hospital admission: Placement of the worker in an acute care hospital for medical treatment of an accepted condition which may be safely scheduled in advance without jeopardizing the worker's health or treatment outcome.

Attendant care: Those personal care services that assist a worker with dressing, feeding, and personal hygiene to facilitate self-care and are provided in order to maintain the worker in their place of temporary or permanent residence consistent with their needs, abilities, and safety. These ser-

vices may be provided by but are not limited to, registered nurses, licensed practical nurses, registered nursing assistants, and other individuals such as family members.

Home nursing: Those nursing services that are medically necessary to maintain the worker in their place of temporary or permanent residence consistent with their needs, abilities, and safety. These services may be provided by but are not limited to, home health care, and hospice agencies on either an hourly or intermittent basis.

[Statutory Authority: RCW 51.04.030, 70.14.050 and 51.04.020(4). 95-16-031, § 296-20-01002, filed 7/21/95, effective 8/22/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-01002, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-20-01002, filed 12/1/92, effective 1/1/93; 92-05-041, § 296-20-01002, filed 2/13/92, effective 3/15/92. Statutory Authority: RCW 51.04.020. 90-14-009, § 296-20-01002, filed 6/25/90, effective 8/1/90. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-01002, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-20-01002, filed 11/30/87, effective 1/1/88; 86-20-074 (Order 86-36), § 296-20-01002, filed 10/1/86, effective 11/1/86; 83-24-016 (Order 83-35), § 296-20-01002, filed 11/30/83, effective 1/1/84; 83-16-066 (Order 83-23), § 296-20-01002, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-01002, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-01002, filed 12/23/80, effective 3/1/81.]

WAC 296-20-015 Who may treat. (1) In order to treat workers under the Industrial Insurance Act, a health care provider must qualify as an approved provider under the department's rules. The department must approve the health care provider through the issuance of a provider number before the health care provider is eligible for payment for services.

(2) Para-professionals, who are not independently licensed, must practice under the direct supervision of a licensed health care professional whose scope of practice and specialty training includes the service provided by the para-professional. The department may deny direct reimbursement to the para-professional for services rendered, and may instead directly reimburse the licensed and supervising health care professional for covered services. Payment rules for para-professionals may be determined by department policy.

(3) Procedures and evaluations requiring specialized skills and knowledge will be limited to board certified or board qualified physicians, or osteopathic physicians as specified by the American Medical Association or the American Osteopathic Association.

(4) The department as a trustee of the medical aid fund has a duty to supervise provision of proper and necessary medical care that is delivered promptly, efficiently, and economically. The department can deny, revoke, suspend, limit, or impose conditions on a health care provider's authorization to treat workers under the Industrial Insurance Act. Reasons for denying issuance of a provider number or imposing any of the above restrictions include, but are not limited to the following:

(a) Incompetence or negligence, which results in injury to a worker or which creates an unreasonable risk that a worker may be harmed.

(b) The possession, use, prescription for use, or distribution of controlled substances, legend drugs, or addictive, habituating, or dependency-inducing substances in any way other than for therapeutic purposes.

(c) Any temporary or permanent probation, suspension, revocation, or type of limitation of a practitioner's license to practice by any court, board, or administrative agency.

(d) The commission of any act involving moral turpitude, dishonesty, or corruption relating to the practice of the provider's profession. The act need not constitute a crime. If a conviction or finding of such an act is reached by a court or other tribunal pursuant to plea, hearing, or trial, a certified copy of the conviction or finding is conclusive evidence of the violation.

(e) The failure to comply with the department's orders, rules, or policies.

(f) The failure, neglect, or refusal to:

(i) Provide records requested by the department pursuant to a health care services review or an audit.

(ii) Submit complete, adequate, and detailed reports or additional reports requested or required by the department regarding the treatment and condition of a worker.

(g) The submission or collusion in the submission of false or misleading reports or bills to any government agency.

(h) Billing a worker for:

(i) Treatment of an industrial condition for which the department has accepted responsibility; or

(ii) The difference between the amount paid by the department under the maximum allowable fee set forth in these rules and any other charge.

(i) Repeated failure to notify the department immediately and prior to burial in any death, where the cause of the death is not definitely known and possibly related to an industrial injury or occupational disease.

(j) Repeated failure to recognize emotional and social factors impeding recovery of a worker who is being treated under the Industrial Insurance Act.

(k) Repeated unreasonable refusal to comply with the recommendations of board certified or qualified specialists who have examined a worker.

(l) Repeated use of:

(i) Treatment of controversial or experimental nature;

(ii) Contraindicated or hazardous treatment; or

(iii) Treatment past stabilization of the industrial condition or after maximum curative improvement has been obtained.

(m) Declaration of mental incompetency by a court or other tribunal.

(n) Failure to comply with the applicable code of professional conduct or ethics.

(o) Failure to inform the department of any disciplinary action issued by order or formal letter taken against the provider's license to practice.

(p) The finding of any peer group review body of reason to take action against the provider's practice privileges.

(q) Misrepresentation or omission of any material information in the application for authorization to treat workers. (chapter 51.04 RCW.)

(5) If the department finds reason to take corrective action, the department may also order one or more of the following:

(a) Recoupment of payments made to the provider, including interest; (chapter 51.04 RCW.)

(b) Denial or reduction of payment;

(c) Assessment of penalties for each action that falls within the scope of subsection (4) (a) through (q) of this section; (chapter 51.48 RCW.)

(d) Placement of the provider on a prepayment review status requiring the submission of supporting documents prior to payment;

(e) Requirement to satisfactorily complete remedial education courses and/or programs; and

(f) Imposition of other appropriate restrictions or conditions on the provider's privilege to be reimbursed for treating workers under the Industrial Insurance Act.

(6) The department shall forward a copy of any corrective action taken against a provider to the applicable disciplinary authority.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-015, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-015, filed 2/2/90, effective 3/5/90; 86-20-074 (Order 86-36), § 296-20-015, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-20-015, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-015, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-015, filed 11/24/76; effective 1/1/77; Order 74-4, § 296-20-015, filed 1/30/74; Order 71-6, § 296-20-015, filed 6/1/71; Order 70-12, § 296-20-015, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-015, filed 11/27/68, effective 1/1/69.]

WAC 296-20-01501 Physician's assistant rules. (1) Physicians' assistants may perform only those medical services in industrial injury cases, for which the physician's assistant is trained and licensed, under the control and supervision of a licensed physician. Such control and supervision shall not be construed to require the personal presence of the supervising physician.

(2) Physicians' assistants may perform those medical services which are within the scope of their physician's assistant license for industrial injury cases within the limitations of subsection (3) of this section.

(3) Advance approval must be obtained from the department to treat industrial injury cases. To be eligible to treat industrial injuries, the physician's assistant must:

(a) Provide the department with a copy of his/her license.

(b) Provide the name and address and specialty of the supervising physician.

(c) Provide the department with the evidence of a reliable and rapid system of communication with the supervising physician.

(4) Physicians' assistants may prepare report of accident, time loss cards, and progress reports for the supervising physician's signature. Physicians' assistants cannot submit such information under his/her signature.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-01501, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-01501, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-01501, filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-01501, filed 11/30/79, effective 1/1/80.]

WAC 296-20-01505 Provider types and services not covered. The department will not pay for services performed by the following practitioners:

Acupuncturists
Herbalists
Christian Science practitioners or theological healers
Homeopathists
Noncertified physician assistants
Operating room technicians
Certified surgical technicians
Certified surgical assistants

Any other licensed or unlicensed practitioners not otherwise specifically provided for by the department.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-14-044, § 296-20-01505, filed 6/29/94, effective 7/30/94.]

WAC 296-20-020 Acceptance of rules and fees. The filing of an accident report or the rendering of treatment to a worker who comes under the department's or self-insurer's jurisdiction, as the case may be, constitutes acceptance of the department's medical aid rules and compliance with its rules and fees.

In accordance with RCW 51.28.020 of the industrial insurance law, when a doctor renders treatment to a worker entitled to benefits under the law, "it shall be the duty of the physician to inform the worker of his rights under this title and to lend all necessary assistance in making the application for compensation and such proof of other matters as required by the rules of the department without charge to the worker, " a worker shall not be billed for treatment rendered for his accepted industrial injury or occupational disease.

The department or self-insurer must be notified immediately, when an unrelated condition is being treated concurrently with an industrial injury. See WAC 296-20-055 for specific information required.

When there is questionable eligibility, (i.e., service is not usually allowed for industrial injuries or investigation is pending, etc.) the provider may require the worker to pay for the treatment rendered.

In cases of questionable eligibility where the provider has billed the worker or other insurance, and the claim is subsequently allowed, the provider shall refund the worker or insurer in full and bill the department or self-insurer for services rendered using billing instructions, codes, and policies as listed in the medical aid rules and fee schedules.

Cases in which there is a question of medical ethics or quality of medical care, will be referred to the Washington state medical association's medical advisory and utilization review committee to the department of labor and industries for recommendations.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-020, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-020, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-020, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-020, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-020, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-20-020, filed 11/22/74, effective 1/1/75; Order 71-6, § 296-20-020, filed 6/1/71; Order 70-12, § 296-20-020, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-020, filed 11/27/68, effective 1/1/69.]

WAC 296-20-02001 Penalties. The department has the right to assess penalties against providers. See chapter 51.48 RCW.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-02001, filed 2/2/90, effective 3/5/90. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-

20-02001, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-02001, filed 11/24/76, effective 1/1/77.]

WAC 296-20-02005 Keeping of records. A health services provider who requests from the department payment for providing services shall maintain all records necessary for the director's authorized auditors to audit the provision of services. A provider shall keep all records necessary to disclose the extent of services the provider furnishes to industrially injured workers. At a minimum, these records must provide and include prompt and specific documentation of the level and type of service for which payment is sought. Records must be maintained for audit purposes for a minimum of five years.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-20-02005, filed 10/1/86, effective 11/1/86.]

WAC 296-20-02010 Review of health services providers. (1) The department may review providers' patient and billing related records to ensure workers are receiving proper and necessary medical care and to ensure providers' compliance with the department's medical aid rules, fee schedules, and policies. A records review may be the basis for corrective action against the provider.

(2) The department may review records before, during, or after delivery of health services. Records reviews may be for cause or at random and may include the utilization of statistical sampling methodologies and projections based upon sample findings. Records reviews may be conducted at or away from the provider's places of business, at the department's discretion.

(3) The department will give ten working days' written notification to any provider, except as authorized in WAC 296-18A-460, that the provider's patient and billing related records will be reviewed by an auditor at the provider's place(s) of business to determine compliance with medical aid rules and standards.

(4) The department may request legible copies of providers' records. Providers shall furnish copies of the requested records within thirty calendar days of receipt of the request.

(5) The department will not remove original records from provider's premises.

(6) For information regarding the formal appeals process refer to chapter 51.52 RCW.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-02010, filed 2/2/90, effective 3/5/90; 86-20-074 (Order 86-36), § 296-20-02010, filed 10/1/86, effective 11/1/86.]

WAC 296-20-02015 Interest on excess payments. (1) When a provider of health services receives a payment to which that provider is not entitled, the provider must repay the excess payment, plus accrued interest, without regard to whether the excess payment occurred due to provider or department error or oversight, except as provided in subsection (2) of this section.

(2) When a provider:

(a) Accepts in good faith a determination by the department that a worker is eligible for benefits under Title 51 RCW;

(b) Provides, bills, and receives payment for services to that worker and the department later determines that the worker was ineligible for services during that period no interest will begin to accrue until notification is received by the provider that the worker was ineligible.

(3) Interest accrues on excess payments at the rate of one percent per month or portion of a month beginning on the thirty-first day after payment was made. Where partial repayment of an excess payment is made, interest accrues on the remaining balance.

(4) The department reserves the option of either requesting the provider to remit the amount of the excess payment and accrued interest to the department or offsetting excess payments and accrued interest against future payments due to the provider.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-20-02015, filed 10/1/86, effective 11/1/86.]

WAC 296-20-022 Payment of out-of-state providers. (1) Beginning February 1, 1987, providers of health services in the bordering states of Oregon and Idaho shall bill and be paid according to the medical aid rules of the state of Washington.

(2) Providers of health services in other states and other countries shall be paid at rates which take into account:

(a) Payment levels allowed under the state of Washington medical aid rules;

(b) Payment levels allowed under workers compensation programs in the provider's place of business; and

(c) The usual, customary, and reasonable charges in the provider's state of business.

(3) In all cases these payment levels are the maximum allowed to providers of health services to workers. Should a health services provider's charge exceed the payment amount allowed under the state of Washington medical aid rules, the provider is prohibited from charging the injured worker for the difference between the provider's charge and the allowable rate. Providers violating this provision are ineligible to treat injured workers as provided by WAC 296-20-015 and are subject to other applicable penalties.

(4) Only those diagnostic and treatment services authorized under the state of Washington medical aid rules may be allowed by the department or self-insurer. As determined by the department of labor and industries, the scope of practice of providers in bordering states may be recognized for payment purposes, except that in all cases WAC 296-20-03002 (Treatment not authorized) shall apply. Specifically, services permitted under workers compensation programs in the provider's state or country of business, but which are not allowed under the medical aid rules of the state of Washington, may not be reimbursed. When in doubt, the provider should verify coverage of a service with the department or self-insurer.

(5) Out-of-state hospitals will be paid according to WAC 296-23A-165.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-022, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-20-022, filed 11/30/87, effective 1/1/88; 87-03-004 (Order 86-45), § 296-20-022, filed 1/8/87.]

WAC 296-20-023 Third party settlement—Excess recoveries. (1) In cases where a third party settlement has been made resulting in an excess recovery subject to offset from the worker's future benefits or compensation due, the department or self-insurer is not liable for payment for services rendered by providers.

(2) The worker should be treated and billed in accordance with the department's medical aid rules and maximum fee schedules. When bills are processed against the amount of the excess recovery, the department will notify the provider on the remittance advice.

(3) The department or self-insurer will resume financial responsibility to or on behalf of the worker when the amount of such excess has been reduced to zero.

[Statutory Authority: Chapters 51.04, 51.08, 51.12, 51.24 and 51.32 RCW and 117 Wn.2d 122 and 121 Wn.2d 304. 93-23-060, § 296-20-023, filed 11/15/93, effective 1/1/94. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-023, filed 2/28/86, effective 4/1/86.]

WAC 296-20-024 Utilization management. The department, as a trustee of the medical aid fund, has a duty to supervise the provision of proper and necessary medical care that is delivered promptly, efficiently, and economically. Toward this end, the department will institute programs of utilization management. These programs are designed to monitor and control the proper and necessary use and cost of, health care services. These programs include, but are not limited to, managed care contracting, prior authorization for services, and alternative reimbursement systems.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-024, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-20-024, filed 11/30/87, effective 1/1/88.]

WAC 296-20-025 Initial treatment and report of accident. It is the responsibility of the worker to notify the practitioner when the worker has reason to believe his injury or condition is industrial in nature. Conversely, if the attending doctor discovers a condition which he believes to be work related or has reason to believe an injury is work related, he must so notify the worker. Once such determination is made by either the claimant or the attending doctor, a report of accident must be filed.

Failure to comply with this responsibility can result in penalties as outlined in WAC 296-20-02001.

It is the practitioner's responsibility to ascertain whether he is the first attending practitioner. If so, he will take the following action:

(1) Give emergency treatment.

(2) Immediately complete and forward the report of accident, to the department and the employer or self-insurer. Instruct and give assistance to the injured worker in completing his portion of the report of accident. In filing a claim, the following information is necessary so there is no delay in adjudication of the claim or payment of compensation.

(a) Complete history of the industrial accident or exposure.

(b) Complete listing of positive physical findings.

(c) Specific diagnosis with ICD-9-CM code(s) and narrative definition relating to the injury.

(d) Type of treatment rendered.

(e) Known medical, emotional or social conditions which may influence recovery or cause complications.

(f) Estimate time loss due to the injury.

(3) If the patient remains under his care continue with necessary treatment in accordance with medical aid rules. If the practitioner is *not* the original attending doctor, he should question the injured worker to determine whether a report of accident has been filed for the injury or condition. If no report of accident has been filed, it should be completed immediately and forwarded to the department or self-insurer, as the case may be, with information as to the name and address of original practitioner if known, so that he/she may be contacted for information if necessary.

If a report of accident has been filed, it is necessary to have the worker complete a request for transfer as outlined in WAC 296-20-065, if the worker and practitioner agree that a change in attending doctor is desirable.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-025, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-025, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-025, filed 6/1/71; Order 70-12, § 296-20-025, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-025, filed 11/27/68, effective 1/1/69.]

WAC 296-20-030 Treatment not requiring authorization for accepted conditions. (1) A maximum of twenty office calls for the treatment of the industrial condition, during the first sixty days, following injury. Subsequent office calls must be authorized. Reports of treatment rendered must be filed at sixty day intervals to include number of office visits to date. See chapter 296-20 WAC and department policies for report requirements and further information.

(2) Initial diagnostic x-rays necessary for evaluation and treatment of the industrial injury or condition. See WAC 296-20-121 for further information.

(3) The first twelve physical therapy treatments as provided by chapters 296-21, 296-23, and 296-23A WAC, upon consultation by the attending doctor or under his direct supervision. Additional physical therapy treatment must be authorized and the request substantiated by evidence of improvement. In no case will the department or self-insurer pay for inpatient hospitalization of a claimant to receive physical therapy treatment only. USE OF DIAPULSE, THERMATIC (standard model only), SPECTROWAVE AND SUPERPULSE MACHINES AND IONTOPHORESIS IS NOT AUTHORIZED FOR WORKERS ENTITLED TO BENEFITS UNDER THE INDUSTRIAL INSURANCE ACT.

(4) Routine laboratory studies reasonably necessary for diagnosis and/or treatment of the industrial condition. Other special laboratory studies require authorization.

(5) Routine standard treatment measures rendered on an emergency basis or in connection with minor injuries not otherwise requiring authorization.

(6) Consultation with specialist when indicated. See WAC 296-20-051 for consultation guidelines.

(7) Nonscheduled drugs and medications during the acute phase of treatment for the industrial injury or condition.

(8) Scheduled drugs and other medications known to be addictive, habit forming or dependency inducing may be prescribed in quantities sufficient for treatment for a maximum

of twenty-one days. If drug therapy extends beyond thirty days, see WAC 296-20-03003 regarding management.

(9) Injectable scheduled and other drugs known to be addictive, habit forming, or dependency inducing may be provided only on an in-patient basis. Hospital admission for administration of drugs for relief of chronic pain only will not be allowed.

(10) Diagnostic or therapeutic nerve blocks. See WAC 296-20-03001 for restrictions.

(11) Intra-articular injections. See WAC 296-20-03001 for restrictions.

(12) Myelogram if prior to emergency surgery.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-030, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-030, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-030, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-030, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-030, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-030, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-030, filed 1/30/74; Order 71-6, § 296-20-030, filed 6/1/71; Order 70-12, § 296-20-030, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-030, filed 11/27/68, effective 1/1/69.]

WAC 296-20-03001 Treatment requiring authorization. Certain treatment procedures require authorization by the department or self-insurer. Requests for authorization must include a statement of: The condition(s) diagnosed; ICD-9-CM codes; their relationship, if any, to the industrial injury/exposure; an outline of the proposed treatment program, its length and components, procedure codes, and expected prognosis; and an estimate of when treatment would be concluded and condition stable.

(1) Office calls in excess of the first twenty visits or sixty days whichever occurs first.

(2) The department may designate those inpatient hospital admissions that require prior authorization.

(3) X-ray and radium therapy.

(4) Diagnostic studies other than routine x-ray and blood or urinalysis laboratory studies.

(5) Myelogram and discogram in nonemergent cases.

(6) Physical therapy treatment beyond initial twelve treatments as outlined in chapters 296-21, 296-23, and 296-23A WAC.

(7) Diagnostic or therapeutic injection. Epidural or caudal injection of substances other than anesthetic or contrast solution will be authorized under the following conditions only:

(a) When the worker has experienced acute low back pain or acute exacerbation of chronic low back pain of no more than six months duration.

(b) The worker will receive no more than three injections in an initial thirty-day treatment period, followed by a thirty-day evaluation period. If significant pain relief is demonstrated one additional series of three injections will be authorized. No more than six injections will be authorized per acute episode.

(8) Home nursing or convalescent center care must be authorized per provision outlined in WAC 296-20-091.

(9) Provision of prosthetics, orthotics, surgical appliances, special equipment for home or transportation vehicle; custom made shoes for ankle/foot injuries resulting in permanent deformity or malfunction of a foot; TNS units; masking devices; hearing aids; etc., must be authorized in advance as per WAC 296-20-1101 and 296-20-1102.

(10) Biofeedback program; pain clinic; weight loss program; psychotherapy; rehabilitation programs; and other programs designed to treat special problems must be authorized in advance. Refer to the department's medical aid rules and fee schedules for details.

(11) Prescription or injection of vitamins for specific therapeutic treatment of the industrial condition(s) when the attending doctor can demonstrate that published clinical studies indicate vitamin therapy is the treatment of choice for the condition. Authorization for this treatment will require presentation of facts to and review by department medical consultant.

(12) Injections of anesthetic and/or anti-inflammatory agents into the vertebral facet joints will be authorized to qualified specialists in orthopedics, neurology, and anesthesia, or other physicians who can demonstrate expertise in the procedure, AND who can provide certification their hospital privileges include the procedure requested under the following conditions:

(a) Rationale for procedure, treatment plan, and request for authorization must be presented in writing to the department or self-insurer.

(b) Procedure must be performed in an accredited hospital under radiographic control.

(c) Not more than four facet injection procedures will be authorized in any one patient.

(13) The long term prescription of medication under the specific conditions and circumstances in (a) and (b) are considered corrective therapy rather than palliative treatment and approval in advance must be obtained.

(a) Nonsteroidal anti-inflammatory agents for the treatment of degenerative joint conditions aggravated by occupational injury.

(b) Anticonvulsive agents for the treatment of seizure disorders caused by trauma.

(14) Intra-muscular and trigger point injections of steroids and other nonscheduled medications are limited to three injections per patient. The attending doctor must submit justification for an additional three injections if indicated with a maximum of six injections to be authorized for any one patient.

(15) The department may designate those diagnostic and surgical procedures which can be performed in other than a hospital inpatient setting. Where a worker has a medical condition which necessitates a hospital admission, prior approval of the department or self-insurer must be obtained.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-03001, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-03001, filed 2/2/90, effective 3/5/90; 86-20-074 (Order 86-36), § 296-20-03001, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-20-03001, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-03001, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-03001, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-03001, filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-03001, filed 11/30/79, effective 1/1/80; Order 76-34, § 296-20-03001, filed 11/24/76, effective 1/1/77.]

WAC 296-20-03002 Treatment not authorized. The department or self-insurer will not allow nor pay for following treatment:

(1) **Use of diapulse, thermatic (standard model only), spectrowave and superpulse machines on workers entitled to benefits under the Industrial Insurance Act.**

(2) Iontophoresis; prolotherapy; acupuncture; injections of colchicine; injections of fibrosing or sclerosing agents; and injections of substances other than anesthetic or contrast into the subarachnoid space (intra-thecal injections).

(3) Treatment to improve or maintain general health (i.e., prescriptions and/or injection of vitamins or referrals to special programs such as health spas, swim programs, exercise programs, athletic-fitness clubs, diet programs, social counseling).

(4) Continued treatment beyond stabilization of the industrial condition(s), i.e., maintenance care, except where necessary to monitor prescription of medication necessary to maintain stabilization i.e., anti-convulsive, anti-spasmodic, etc.

(5) After consultation and advice to the department or self-insurer, any treatment measure deemed to be dangerous or inappropriate for the injured worker in question.

(6) Treatment measures of an unusual, controversial, obsolete, or experimental nature (see WAC 296-20-045). Under certain conditions, treatment in this category may be approved by the department or self-insurer. Approval must be obtained prior to treatment. Requests must contain a description of the treatment, reason for the request with benefits and results expected.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-03002, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-03002, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-03002, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-03002, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-03002, filed 11/24/76, effective 1/1/77.]

WAC 296-20-03003 Drugs and medication. (1) **General principles.** There has been a significant increase in the incidence of drug dependence in workers covered under the industrial insurance program of this state. The industrial insurance committee of the Washington state medical association has recommended that the medical aid rules should contain reasonable and appropriate guidelines for the prescription of controlled substances, psychotropics, and injectables with the intent to improve prescribing practices and the general level of medical care for claimants.

The physician's record should include the reason for the medication, the dosage and the amount prescribed. With repeated prescriptions, the record should make clear the plan and the need for continuing medication.

Because of the dangers inherent in prescriptions for large amounts of psychotropic drugs, the following rules will set forth guidelines for the prescription of psychotropic drugs and benzodiazepines.

(2) **Coverage.** Prescriptions are to be written only for injuries and diseases accepted under the claim.

(3) **Initial rx-all medication.** Initial prescription of medication shall be for quantities sufficient for twenty-one days or less. Refills shall be in accordance with the physician's treatment plan and the additional rules which follow.

(4) **OTC drugs over-the-counter.** Prescriptions for the over-the-counter items may be paid. Special compounding fees for over-the-counter items are not payable.

(5) **Pension cases.** The industrial insurance statute prohibits department or self-insurer payment for controlled substances for claimants on pension. Payment for other medications for pensioners is dependent upon a special order on the individual claim.

(6) **Controlled substances and other analgesics.** Prescriptions for controlled substances may not be for quantities for more than twenty-one days. Refills of prescriptions for controlled substances will be contingent upon the attending physician's reevaluation of the claimant. Directions should be on time contingent rather than a PRN basis.

Schedule II substances and other analgesics (including but not limited to Stadol, Nubaine, etc.), may be used to relieve pain during hospitalization and the acute stage of an injury or illness. The prescription of the above beyond reasonable recovery periods, or for chronic pain, pain behavior or suffering is prohibited. Injectable narcotics or analgesics are not permitted or paid in the outpatient setting except an emergency basis.

(7) **Methadone for narcotic maintenance or withdrawal.** Prescriptions for Methadone or "pain cocktails" containing Methadone for narcotic addiction, maintenance or detoxification are prohibited by Federal Public Law 93-281. Methadone for withdrawal purposes may be dispensed only by agencies licensed by the drug enforcement administration. Those agencies in the state of Washington are:

Veteran's Administration Hospital (Seattle);
Evergreen Treatment Center (Seattle);
Center for Addiction Services (Seattle);
Therapeutic Health Services (Seattle);
Tacoma Pierce County Health Service (Tacoma);
Mid-Columbia Mental Health (Pasco);
Central Washington Mental Health (Yakima); and
Youth Help Association (Spokane).

The department is required to notify the drug enforcement administration when Methadone is prescribed for detoxification purposes by persons other than agencies licensed by the drug enforcement administration.

(8) **Nonsteroidal anti-inflammatory agents.** Prescriptions for anti-inflammatory agents are exempt from the rule prohibiting palliative treatment. Nonsteroidal anti-inflammatory agents may be prescribed if high dose enteric coated aspirin trial is unsuccessful.

Prescriptions for ulcer medications such as H_2 blockers (Tagamet and Zantac) and ulcer adherent complexes (Carafate) written on a prophylactic basis in connection with prescriptions for analgesic, anti-inflammatory, and steroidal agents may be allowed when:

(a) Peptic ulcer disease has been documented; or

(b) Intensive treatment with steroidal agents is being utilized; or

(c) The physician certifies that prescription with meals or with an alternative NSAID (nonsteroidal anti-inflammatory drug) has failed to control the abdominal distress.

(9) **Sedatives**. Sedatives including but not limited to short acting barbiturates such as Seconal or Nembutal, and nonbarbiturate sedatives such as Noctec and Dalmane are prohibited and will not be paid during the chronic stage of any occupational injury or illness. Doriden (Glutethimide) and Quaalude (Methaqualone) are prohibited and will not be paid at any time.

(10) **Anticonvulsants for chronic pain**. Anticonvulsants including but not limited to Dilantin and Tegretol, may be prescribed on a trial basis for chronic pain if all of the precautions regarding their use are observed. Long-term prescription of anticonvulsants may be allowed if concurring opinion is obtained from a physician with special training in the pain field.

(11) **Psychotropics**. Because of the dangers inherent, prescriptions for psychotropic drugs such as Phenothiazines, butyrophenones, tri-or-quadricyclic antidepressants must be in compliance with published indications, contraindications, precautions, and warnings. Prescriptions should not exceed a lethal dose (for example maximum of one hundred 50 mg. tablets of Amitriptyline (Elavil)).

(12) **Benzodiazepies**. Prescriptions for Benzodiazepies including but not limited to Valium, Tranxene, Serax, Librium, etc., are limited to the following types of patients: Hospitalized patients, claimants with accepted psychiatric disorders, and to outpatients for not more than twenty-one days.

(13) **Rx for nonrelated**. The department or self-insurer may consider temporary coverage of conditions not related to the industrial injury when such conditions are retarding recovery. However, prescriptions for treatment of such conditions must have prior authorization per WAC 296-20-055.

(14) **Injectables**. Prescriptions for injectable narcotics, sedatives, analgesics, antihistamines, tranquilizers, psychotropics, vitamins, minerals, food supplements, and hormones (except Insulin and Heparin) are not covered. Such drugs may be administered for inpatients or during emergency treatment of a life-threatening condition/injury or during outpatient treatment of burns or fractures when needed for dressing or cast changes. They may not be administered for chronic pain. Prescriptions for syringes and needles are prohibited and will not be paid except for Insulin and Heparin.

(15) **Generic drugs**. Prescriptions are to be written for generic drugs only unless the patient cannot tolerate substitution. Pharmacists are instructed to fill with generic drugs unless the attending physician specifically indicates substitution is not permitted.

(16) **Provider number**. Prescriptions for department claims must include the department assigned provider account number of the prescribing physician and legible physician signature.

(17) The department realizes that management of chronic pain cases is most difficult subjecting the physician to extreme pressures. With this in mind, the following guidelines are suggested with the intent that they will help the doctor cope with the pressures and assist in the management of these difficult cases:

(a) Keep a drug summary on all claimants.

(b) Determine if pain complaints are consistent with the amount of injury.

(c) Write specific instructions for the use of sedatives and analgesics.

(d) Treat the natural depression in injured workers properly, avoiding tranquilizers, and sedatives which increase depression.

(e) Evaluate recovery time frequently, and allow patient to regain self-esteem by returning to work.

(f) If a patient is requiring these drugs in amounts sufficient to cause concern about habituation or addiction or for longer than sixty days, the attending physician should:

(i) Revise the treatment plan and withdraw the drugs.

(ii) If unable to treat addiction or habituation himself, refer the patient to a physician or an institution experienced in drug withdrawal.

(iii) If (i) and (ii) are not acceptable or appropriate, obtain unbiased concurring opinion, and justify an alternate course in writing to the department of labor and industries or self-insurer and the Federal Drug Enforcement Administration.

(18) The department or self-insurer will inform the attending physician when it is concerned about the amount of these drugs the patient is receiving and will provide information regarding physicians and institutions experienced in drug withdrawal.

(19) As per RCW 51.36.010, when a worker is placed on pension the department cannot pay for Schedule I, II, III or IV substances.

(20) Physician failure to reduce or terminate prescription of controlled substances, habit forming or addicting medications, or dependency inducing medications, after department or self-insurer request to do so for an injured worker may result in a transfer of the worker to another physician of the worker's choice. Refusal of the worker to select another doctor can result in department or self-insurer selection of new attending doctor. (See WAC 296-20-065 regarding transfer.)

(21) Should the attending doctor or the injured worker refuse to comply with the department or self-insurer request to discontinue certain medications, the department or self-insurer, after providing adequate prior notice to the worker, doctor, and pharmacy/s involved, may discontinue payment for the medication.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-03003, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-03003, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-03003, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-03003, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-20-03003, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-03003, filed 11/24/76, effective 1/1/77.]

WAC 296-20-03004 Chemonucleolysis. Chymopapain injections may be authorized in the treatment of lumbar disc disease under the following limitations and criteria:

(1) Only physicians (a) who routinely care for patients with herniated lumbar intervertebral discs, (b) who are qualified by training and experience to diagnose lumbar disc disease and to perform laminectomy, discectomy or other spinal procedures, (c) who have received specialized training in chemonucleolysis, may administer the procedure for industrial injured workers covered under state industrial insurance fund or self-insurance.

(2) Preadministration work-up shall include but is not limited to (a) a concurring opinion from a physician familiar with the procedure and qualified by training and experience to diagnose and treat lumbar disc disease, (b) diagnostic studies indicative of level of disc herniation i.e., myelogram, a high resolution CT scan, discogram, etc., (c) other diagnostic studies including sedimentation rate (anaphylaxis has occurred primarily in females with sedimentation rates in excess of 20 mm per hour) as indicated for the individual patient.

(3) Procedure will be authorized (a) one time only in the treatment life of any given patient, (b) maximum of two levels per patient (Generally only one level will be authorized. Indications for a second level are infrequent. However, authorization may be granted if diagnostic studies and/or concurring opinion so indicates.), (c) only for patients who have had no previous lumbar surgery at that level.

(4) Procedure must be carried out in hospital setting under radiographic or fluoroscopic control, with a permanent x-ray record maintained.

(5) **Prior authorization from the department or the self-insurer must be obtained before procedure is scheduled.**

(6) These rules were formulated based upon the recommendations of the Federal Food and Drug Administration, the drug manufacturer, and the industrial insurance committee of the Washington state medical association.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-20-03004, filed 8/2/83.]

WAC 296-20-03005 Inoculation or immunological treatment for exposure to infectious occupational disease. Authorization for inoculation or other immunological treatment for occupational disease shall be given only in cases in which a work related activity has resulted in probable exposure of the worker to a potential infectious occupational disease. In no case shall such inoculation or immunological treatment be authorized until such time as a work related activity has resulted in such probable exposure. Inoculation or other treatment required as a condition for employment or otherwise obtained prior to the worker's performing a work related activity resulting in probable exposure to an occupational disease shall not be authorized. For purposes of this section, probable exposure is an incident which gives rise to a clear and immediate likelihood of contracting an occupational disease process.

[Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.36.010. 86-18-025 (Order 86-34), § 296-20-03005, filed 8/27/86, effective 11/1/86.]

WAC 296-20-035 Treatment in cases that remain open beyond sixty days. Conditions requiring treatment beyond sixty days are indicative of a major industrial condition or complication by other conditions. Except in cases of severe and extensive injuries, i.e., quadriplegia, paraplegia, multiple fractures, etc., when the worker requires treatment beyond sixty days following injury, a complete examination is necessary to determine and/or establish need for continued treatment and/or payment of time loss compensation. This may be accomplished either by the attending doctor or a consultation exam. In either case, a detailed exam report must be provided to the department or self-insurer. Refer to chapter 296-20 WAC (including the definition section) and department policy for the type of information that must be included in these reports.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-035, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.040.030 [51.04.030]. 87-08-004 (Order 87-09), § 296-20-035, filed 3/20/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-035, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-035, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-035, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-035, filed 6/1/71; Order 70-12, § 296-20-035, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-035, filed 11/27/68, effective 1/1/69.]

WAC 296-20-045 Consultation requirements. In the event of complication, controversy, or dispute over the treatment aspects of any claim, the department or self-insurer will not authorize treatment until the attending doctor has arranged a consultation with a qualified doctor with experience and expertise on the subject, and the department or self-insurer has received notification of the findings and recommendations of the consultant.

This consultation must be arranged in accordance with WAC 296-20-051.

Consultations are also required in the following situations:

(1) All nonemergent major surgery on a patient with serious medical, emotional or social problems which are likely to complicate recovery.

(2) All procedures of a controversial nature or type not in common use for the specific condition.

(3) Surgical cases where there are complications or unfavorable circumstances such as age, preexisting conditions or interference with occupational requirements, etc.

(4) If the attending doctor, the department, self-insurer, or authorized department representative requests a consultation.

(5) Conservative care, (e.g., nonsurgical cases) extending past one hundred twenty days following initial visit. Such consultation may be with a chiropractic or a medical or osteopathic consultant.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-045, filed 2/2/90, effective 3/5/90. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-045, filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-045, filed 11/30/79, effective 1/1/80; Order 71-6, § 296-20-045, filed 6/1/71; Order 70-12, § 296-20-045, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-045, filed 11/27/68, effective 1/1/69.]

WAC 296-20-051 Consultations. In cases presenting diagnostic or therapeutic problems to the attending doctor, consultation with a specialist will be allowed without prior authorization. The consultant must submit his findings and recommendations immediately to the attending doctor and the department or self-insurer. Refer to chapter 296-20 WAC and department policy for reporting requirements.

Whenever possible, the referring doctor should make his x-rays and records available to the consultant to avoid unnecessary duplication. The department's consultation referral form may be used to convey information to the consultant.

Consultants may proceed with indicated and reasonable x-rays or laboratory work and reasonable diagnostic studies as permitted within their scope of practice.

Consultations will be held with a specialist within a reasonable geographic area. Whenever possible, consultation should be made with a doctor outside the referring doctor's office or partnership.

The attending doctor will not arrange a consultation if he has received notification that a special or commission examination is being arranged by the department or self-insurer. If he has had recent consultation and is notified that the department or self-insurer is arranging an examination, he must immediately advise the department or self-insurer of the consultation.

The consultation fee will be paid only if a consultation report is complete and contains all pathological findings as well as all pertinent negative or normal findings. The report must be received in the department within fifteen days from the date of the consultation. No fee is paid to the consultant if the worker fails the appointment.

The consultant may not order, prescribe, or provide treatment without the approval of the attending doctor and the injured worker. No transfer will be made to the consultant without the prior approval of the attending doctor and the injured worker.

Consultation services will not be reimbursed for workers who are currently, or have been under the physician's care within the last three years. Such services should be billed as follow up visits, as listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-051, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-051, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-051, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-051, filed 6/1/71; Order 70-12, § 296-20-051, filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-070.]

WAC 296-20-055 Limitation of treatment and temporary treatment of unrelated conditions when retarding recovery. Conditions preexisting the injury or occupational disease are not the responsibility of the department. When an unrelated condition is being treated concurrently with the industrial condition, the attending doctor must notify the department or self-insurer immediately and submit the following:

(1) Diagnosis and/or nature of unrelated condition.

(2) Treatment being rendered.

(3) The effect, if any, on industrial condition.

Temporary treatment of an unrelated condition may be allowed, upon prior approval by the department or self-insurer, provided these conditions directly retard recovery of the accepted condition. The department or self-insurer will not approve or pay for treatment for a known preexisting unrelated condition for which the claimant was receiving treatment prior to his industrial injury or occupational disease, which is not retarding recovery of his industrial condition.

A thorough explanation of how the unrelated condition is affecting the industrial condition must be included with the request for authorization.

The department or self-insurer will not pay for treatment of an unrelated condition when it no longer exerts any influence upon the accepted industrial condition. When treatment of an unrelated condition is being rendered, reports must be submitted monthly outlining the effect of treatment on both the unrelated and the accepted industrial conditions.

The department or self-insurer will not pay for treatment for unrelated conditions unless specifically authorized. This includes prescription of drugs and medicines.

[Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-055, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-055, filed 6/1/71; Order 70-12, § 296-20-055, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-055, filed 11/27/68, effective 1/1/69.]

WAC 296-20-06101 Reporting requirements. The department or self-insurer requires several kinds of reports at various stages of the claim in order to authorize treatment, time loss compensation, and treatment bills. For additional information refer to the medical aid rules and fee schedules.

Initial report of accident: The first report required is the report of accident. The report of accident qualifies as the office note or report of the initial visit for Level 1 or 2 office calls. In addition to the office call charge, the doctor may bill for the filing of the accident report. Reimbursement of these services will be paid if the claim is allowed by the department or self-insurer. If the initial visit is a transfer case, a report is required. Billing for a Level 3, 4, or 5 initial visit may require submission of additional reports as required by department policy.

Office notes: Legible copies of office or progress notes are required for all follow-up visits. Office notes are not acceptable in lieu of requested narrative reports.

Sixty-day narrative reports: When conservative treatment is to continue beyond sixty days, submission of a narrative report is required to substantiate the need for continued care. A narrative report must contain basic information contained in chapter 296-20 WAC, or as determined by department policy. For this narrative report, the department or self-insurer will pay at a rate determined by department policy for a routine report in addition to a routine office call if the call is needed to provide the information. If the doctor supplies additional comprehensive information in the report, payment of a charge submitted in excess of the allowed fee will be considered. In most cases, payment for a narrative report in addition to a Level 3, 4, or 5 office visit will not be considered as the fee for those services includes a comprehensive report. A narrative report should be described as a "sixty-day report."

Consultations reports: Following one hundred twenty days of conservative care (nonsurgical cases), a consultation with the doctor of the attending doctor's choice is required to substantiate further treatment authorization. No prior authorization is required for such consultations. The department or self-insurer should be notified via a consultation referral form (LI-210-299). The consultant is responsible for submitting a copy of the report as outlined in chapter 296-20 WAC, or as determined by department policy, along with the bill to the department or self-insurer.

Follow-up reports: Following the one-hundred twenty day consultation, narrative reports are required at sixty-day

intervals as outlined in chapter 296-20 WAC. The department or self-insurer will request additional consultations and/or special exams as warranted by the individual case.

Hospital reports: When workers are hospitalized it is the responsibility of the doctor to submit the reports to the hospital for submission with the hospital billing. The doctor may bill for hospital visits without attaching copies of the reports. However, billing for operative procedures requires a copy of the operative report.

Reopening application: On claims closed over sixty days, the department or self-insurer will pay for completion of a reopening application, an office visit and diagnostic studies necessary to complete the application. (See chapter 296-20 WAC.) **No other benefits will be paid until the adjudication decision is rendered.**

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-06101, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-06101, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-06101, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-06101, filed 12/23/80, effective 3/1/81; Order 74-39, § 296-20-06101, filed 11/22/74, effective 1/1/75.]

WAC 296-20-065 Transfer of doctors. All transfers from one doctor to another must be approved by the department or self-insurer. Normally transfers will be allowed only after the worker has been under the care of the attending doctor for sufficient time for the doctor to: Complete necessary diagnostic studies, establish an appropriate treatment regimen, and evaluate the efficacy of the therapeutic program.

Under RCW 51.36.010 the worker is entitled to free choice of treating doctor. Except as provided under subsections (1) through (7) of this section, no reasonable request for transfer will be denied. The worker must be advised when and why a transfer is denied.

When a transfer is approved, the new attending doctor must be provided with a copy of the worker's treatment record by the previous attending doctor. X-rays in the possession of the previous attending doctor must be immediately forwarded to the new attending doctor for his or her retention as long as the worker remains under his or her care. Copies of x-rays and other records may be provided in lieu of originals.

The department or self-insurer reserves the right to require a worker to select another doctor or specialist for treatment, under the following conditions:

(1) When more conveniently located doctors, qualified to provide the necessary treatment, are available.

(2) When the attending doctor fails to cooperate in observance and compliance with the department rules.

(3) In time loss cases where reasonable progress towards return to work is not shown.

(4) Cases requiring specialized treatment, which the attending doctor is not qualified to render, or is outside the scope of the attending doctor's license to practice.

(5) Where the department or self-insurer finds a transfer of doctor to be appropriate and has requested the worker to transfer in accordance with this rule, the department or self-insurer may select a new attending doctor if the worker unreasonably refuses or delays in selecting another attending doctor.

(6) In cases where the attending doctor is not qualified to treat each of several accepted conditions. This does not preclude concurrent care where indicated. See WAC 296-20-071.

(7) No transfer will be approved to a consultant or special examiner without the approval of the attending doctor and the worker.

Transfers will be authorized for the foregoing reasons or where the department or self-insurer in its discretion finds that a transfer is in the best interest of returning the worker to a productive role in society.

When a worker's care is transferred to another doctor each doctor must submit a separate bill to the department or self-insurer for their portion of the care. Payment will be made at rates determined by department policy.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-065, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-065, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-065, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-20-065, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-20-065, filed 12/1/77; Emergency Order 77-16, § 296-20-065, filed 9/6/77; Order 75-39, § 296-20-065, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-065, filed 1/30/74; Order 71-6, § 296-20-065, filed 6/1/71; Order 70-12, § 296-20-065, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-065, filed 11/27/68, effective 1/1/69.]

WAC 296-20-071 Concurrent treatment. In some cases, treatment by more than one practitioner may be allowed. The department or self-insurer will consider concurrent treatment when the accepted conditions resulting from the injury involve more than one system and/or require specialty or multidisciplinary care.

When requesting consideration for concurrent treatment, the attending doctor must provide the department or self-insurer with the following:

The name, address, discipline, and specialty of all other practitioners assisting in the treatment of the injured worker and an outline of their responsibility in the case and an estimate of the length of the period of concurrent care.

When concurrent treatment is allowed, the department or self-insurer will recognize one primary attending doctor, who will be responsible for prescribing all medications; directing the over-all treatment program; providing copies of all reports and other data received from the involved practitioners and, in time loss cases, providing adequate certification evidence of the worker's inability to work.

The department or self-insurer will approve concurrent care on a case-by-case basis. Consideration will be given to all factors in the case including availability of providers in the worker's geographic location.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-071, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-071, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-20-071, filed 11/28/75, effective 1/1/76; Order 70-12, § 296-20-071, filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-060.]

WAC 296-20-075 Hospitalization. (1) Hospitalization will be paid for proper and necessary medical treatment of the accepted condition(s). The department may develop and implement utilization management criteria which will be

used to review inpatient hospital admissions. Reimbursement for hospitalization is limited to proper and necessary care for an accepted condition. Failure to comply with these criteria may result in delayed or reduced reimbursement to the provider as allowed under chapter 51.48 RCW. Ward or semi-private accommodations will be paid, unless the worker's condition requires special care.

(2) Discharge from the hospital shall be at the earliest date possible consistent with proper health care. If transfer to a convalescent center or nursing home is indicated, prior arrangements should be made with the department or self-insurer. See WAC 296-20-091 for further information. The department may designate those diagnostic and surgical procedures which will be reimbursed only if performed in an outpatient setting. When procedures so designated must be performed in an inpatient setting for reasons of medical necessity, prior authorization must be obtained.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-20-075, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-20-075, filed 11/30/87, effective 1/1/88; 86-20-074 (Order 86-36), § 296-20-075, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-20-075, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-075, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-075, filed 6/1/71; Order 70-12, § 296-20-075, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-075, filed 11/27/68, effective 1/1/69.]

WAC 296-20-081 Unrelated concurrent nonemergent surgery. Elective surgery for an unrelated condition is not normally permitted during hospitalization for an industrial condition. Under some circumstances unrelated elective surgery may be permitted through prior agreement and approval by the department provided the unrelated surgery is not more extensive than the procedure for the industrial condition. The requesting doctor must submit a written request and identify which services are needed due to the industrial injury and which are needed due to unrelated conditions, along with an estimate of what effect, if any, the unrelated surgery will have on the accepted conditions and recovery time from surgery.

[Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-081, filed 12/23/80, effective 3/1/81; Order 70-12, § 296-20-081, filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-095.]

WAC 296-20-091 Home nursing or attendant care. A worker temporarily totally disabled or permanently totally disabled may either temporarily or permanently require home nursing or attendant care. A physician's request and prior department authorization are required for home nursing and attendant care.

Home health, hospice, and home care agency providers shall be licensed.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-05-041, § 296-20-091, filed 2/13/92, effective 3/15/92. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-091, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-091, filed 6/1/71; Order 70-12, § 296-20-091, filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-080.]

WAC 296-20-097 Reopenings. When a claim has been closed by the department or self-insurer by written order and notice for sixty days, submission of a formal "application to reopen claim for aggravation of condition" form (LI 210-79) is necessary. The department or self-insurer is responsible for customary charges for examinations, diagnostic studies, and determining whether or not time-loss is payable regardless of the final action taken on the reopening application. Reopening applications should be submitted immediately. When reopening is granted, the department or self-insurer can pay time loss and treatment benefits only for a period not to exceed sixty days *prior* to date the application is received by the department or self-insurer. Necessary treatment should not be deferred pending a department or self-insurer adjudication decision. However, should reopening be denied treatment costs become the financial responsibility of the worker.

[Statutory Authority: RCW 51.32.190 and 51.32.210. 90-22-054, § 296-20-097, filed 11/5/90, effective 12/6/90. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-097, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-097, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-097, filed 6/1/71; Order 70-12, § 296-20-095 (codified as WAC 296-20-097), filed 12/1/70, effective 1/1/71. Formerly WAC 296-20-090.]

WAC 296-20-09701 Request for reconsideration. On occasion, a claim may be closed prematurely or in error or other adjudication action may be taken, which may seem inappropriate to the doctor or injured worker. When this occurs the attending doctor should submit immediately in writing his request for reconsideration of the adjudication action, supported by an outline of:

(1) The claimant's current condition.

(2) The treatment program being received.

(3) The prognosis of when stabilization will occur.

All requests for reconsideration must be received by the department or self-insurer within sixty days from date of the order and notice of closure. Request for reconsideration of other department or self-insurer orders or actions must be made in writing by either the doctor or the injured worker within sixty days of the date of the action or order.

[Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-09701, filed 12/23/80, effective 3/1/81.]

WAC 296-20-100 Eye glasses and refractions. The department or self-insurer will be responsible one time for replacement of glasses or contact lenses only to the extent of the cost of restoring damaged item to its condition at the time of the accident. This benefit applies only if the worker was wearing the glasses or contact lens when the industrial accident occurred.

If glasses are repairable and a worker determines that he/she prefers a replacement, the department or self-insurer is responsible only for the cost of the repairs and the worker is responsible for the difference between repair and replacement costs.

Refraction to replace a broken or lost lens is only payable when it is substantiated that the prescription was not available from the broken lens or any other source. If the prescription is available, and the patient needs a new refraction, he is responsible for the costs of such exam.

If a refractive error is the result of the industrial injury or occupational disease condition, refraction and glasses or contact lenses will be authorized and paid by the department or self-insurer.

When broken or lost glasses or contact lenses are the only injury or condition suffered, the doctor's portion of the report of accident can be completed by an optometrist or other vendor furnishing the replacement. A report of accident must be received by the department or self-insurer in order to adjudicate the claim.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-100, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-100, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-100, filed 6/1/71; Order 70-12, § 296-20-100, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-100, filed 11/27/68, effective 1/1/69.]

WAC 296-20-110 Dental. Only dentists, oral surgeons or dental specialists licensed in the state in which they practice are eligible to treat workers entitled to benefits under the industrial insurance law.

If only a dental injury is involved, the doctor's portion of the report of accident must be completed by the dentist to whom the worker first reports. See WAC 296-20-025 for further information.

If the accident report has been submitted by another doctor, the dentist's report should be made by letter. In addition to the information required under WAC 296-20-025, the dentist should outline the extent of the dental injury and the treatment program necessary to repair damage due to the injury. Dental x-rays should be retained by the attending dentist for a period of not less than ten years. The department or self-insurer does not require submission of the actual films except upon specific request.

The department or self-insurer is responsible only for repair or replacement of teeth injured or dentures broken as a result of an industrial accident. Any dental work needed due to underlying conditions unrelated to the industrial injury is the responsibility of the worker. It is the responsibility of the dentist to advise the worker accordingly.

In cases presenting complication, controversy, or diagnostic or therapeutic problems, consultation by another dentist may be requested to support authorization for restorative repairs.

Bills covering the cost of dentures should be submitted for the denture only and should not include the cost for subsequent relining. If relining becomes necessary, authorization for relining must be obtained in advance from the department or self-insurer.

Bills must be submitted to the department or self-insurer within one year from the date the service is rendered. Bills must itemize the service rendered, including the current HCPCS Level II codes, the materials used and the injured tooth number(s). See WAC 296-20-125 and department policy for further billing rules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-14-044, § 296-20-110, filed 6/29/94, effective 7/30/94; 93-16-072, § 296-20-110, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-110, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-110, filed 12/23/80, effective 3/1/81; Order 70-12, § 296-20-110, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-110, filed 11/27/68, effective 1/1/69.]

WAC 296-20-1101 Hearing aids and masking devices. The department or self-insurer is responsible for replacement or repair of hearing aids damaged or lost due to an industrial accident only to the extent of restoring the damaged item to its condition at time of the accident. If the hearing aid is repairable and the worker determines he prefers replacement, the department or self-insurer is responsible only to the extent of the cost to repair the original and the worker is responsible for the difference between repair and replacement costs.

When the department or self-insurer has accepted a hearing loss condition either as a result of industrial injury or occupational exposure, the department or self-insurer will furnish a hearing aid (hearing aids when bilateral loss is present) when prescribed or recommended by a physician.

The department or self-insurer will bear the cost of repairs or replacement due to normal wear and the cost of battery replacement for the life of the hearing aid.

In cases of accepted tinnitus, the department or self-insurer may provide masking devices under the same provisions as outlined for hearing aids due to hearing loss.

Provision of masking devices and hearing aids require prior authorization.

[Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-1101, filed 12/23/80, effective 3/1/81.]

WAC 296-20-1102 Special equipment rental and purchase prosthetic and orthotics equipment. The department or self-insurer will authorize and pay rental fee for equipment or devices if the need for the equipment will be for a short period of treatment during the acute phase of condition. Rental extending beyond sixty days requires prior authorization. If the equipment will be needed on long term basis, the department or self-insurer will consider purchase of the equipment or device. The department's or self-insurer's decision to rent or purchase an item of medical equipment will be based on a comparison of the projected rental costs of the item with its purchase price. An authorized representative of the department or self-insurer will decide whether to rent or purchase certain items, provided they are appropriate and medically necessary for treatment of the worker's accepted industrial condition. Decisions to rent or purchase items will be based on the following information:

(1) Purchase price of the item.

(2) Monthly rental fee.

(3) The prescribing doctor's estimate of how long the item will be needed.

The prescribing doctor must obtain prior authorization from the department or self-insurer, for rental or purchase of special equipment or devices. Also, all equipment (rentals and purchases), prosthetics, and orthotics must be billed using the appropriate codes, and billing forms, as determined by the medical aid rules and fee schedules.

The department or self-insurer will authorize and pay for prosthetics and orthotics as needed by the worker and substantiated by attending doctor. If such items are furnished by the attending doctor, the department or self-insurer will reimburse the doctor his cost for the item. See chapter 296-20 WAC (including WAC 296-20-124) and the fee schedules for information regarding replacement of such items on closed claims.

The department or self-insurer will repair or replace originally provided damaged, broken, or worn-out prosthetics, orthotics, or special equipment devices upon documentation and substantiation from the attending doctor.

Provision of such equipment requires prior authorization.

THE GRAVITY GUIDING SYSTEM, GRAVITY LUMBAR REDUCTION DEVICE, BACKSWING AND OTHER INVERSION TRACTION EQUIPMENT MAY ONLY BE USED IN A SUPERVISED SETTING. RENTAL OR PURCHASE FOR HOME USE WILL NOT BE ALLOWED NOR PAID BY THE DEPARTMENT OR SELF-INSURER.

EQUIPMENT NOT REQUIRING PRIOR AUTHORIZATION INCLUDES CRUTCHES, CERVICAL COLLARS, LUMBAR AND RIB BELTS, AND OTHER COMMONLY USED ORTHOTICS OF MINIMAL COST.

PERSONAL APPLIANCES SUCH AS VIBRATORS, HEATING PADS, HOME FURNISHINGS, HOT TUBS, WATERBEDS, EXERCISE BIKES, EXERCISE EQUIPMENT, JACUZZIES, PILLOWS, CASSETTE TAPES, EDUCATIONAL MATERIALS OR BOOKS, AND OTHER SIMILAR ITEMS WILL NOT BE AUTHORIZED OR PAID.

In no case will the department or self-insurer pay for rental fees once the purchase price of the rented item has been reached.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-1102, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-22-052 (Order 87-22), § 296-20-1102, filed 11/2/87; 86-06-032 (Order 86-19), § 296-20-1102, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-1102, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-1102, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-1102, filed 12/23/80, effective 3/1/81.]

WAC 296-20-1103 Travel expense. The department or self-insurer will reimburse travel expense incurred by workers for the following reasons: (1) Examinations at department's or self-insurer's request; (2) vocational services at department's or self-insurer's request; (3) treatment at department rehabilitation center; (4) fitting of prosthetic device; and (5) upon *prior authorization* for treatment when worker must travel more than ten miles one-way from the worker's home to the nearest point of adequate treatment. Travel expense *is not* payable when adequate treatment is available within ten miles of injured worker's home, yet the injured worker prefers to report to an attending doctor outside the worker's home area.

Travel expenses will be reimbursed at the current department rate.

Receipts are required for all expenses except parking expenses under ten dollars.

Claims for reimbursement of travel expenses must be received by the department or self-insurer within one year after the date expenses are incurred. Refer to WAC 296-20-125 and to department policy for additional rules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-1103, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020. 91-12-010, § 296-20-1103, filed 5/30/91, effective 7/1/91. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-20-1103, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-1103, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-1103, filed 12/23/80, effective 3/1/81.]

WAC 296-20-120 Procedures not listed in this schedule. Procedures not specifically listed will be given values comparable to those of the listed procedures of closest similarity. Refer to chapter 296-20 WAC (including the definition section) and the fee schedules for required billing documentation.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-120, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-120, filed 12/23/80, effective 3/1/81; Order 71-6, § 296-20-120, filed 6/1/71; Order 70-12, § 296-20-120, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-120, filed 11/27/68, effective 1/1/69.]

WAC 296-20-12050 Special programs. (1) The department or self-insurer may from time to time enter into special agreements for services provided by, or under the direction of, licensed providers authorized to bill the department. Special agreements are for services other than routine services covered under the fee schedule, and may include multi-disciplinary or inter-disciplinary programs such as pain management, work hardening, and physical conditioning.

(2) The department shall establish payment rates for special agreements, and may establish outcome criteria, measures of effectiveness, minimum staffing levels, certification requirements, special reporting requirements and such other criteria as will ensure injured workers receive good quality and effective services at a prudent cost.

(3) Special agreements shall be purchased at the discretion of the department or self-insurer. The department may terminate special programs from the industrial insurance program upon thirty days notice to the provider.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-20-12050, filed 11/30/87, effective 1/1/88.]

WAC 296-20-121 X-rays. Recognizing the greatest need for access to x-rays lies with the attending doctor, the department or self-insurer requires only submission of x-ray findings and does not require submission of the actual films except upon specific request when needed for purposes of permanent disability rating, other administrative or legal decisions, or in litigation cases. The department or self-insurer requires the attending doctor retain x-rays for a period of not less than ten years. In transfer cases, the x-rays in the possession of the current attending doctor must be made available to the new attending doctor.

When requesting consultation, the attending doctor should make any x-rays in his possession available to the consultant.

When a special exam has been arranged for the worker by the department or self-insurer, the worker's existing x-rays should be provided to the special examiner. The worker may carry such x-rays to the exam.

When the doctor's office is closed because of death, retirement or leaving the state, arrangements must be made with the department or self-insurer regarding custody of x-rays to insure availability on request. When submitting billing for x-ray service, a copy of the x-ray findings is required. No payment will be made for excessive or unnecessary x-rays. No payment will be made on closed or rejected claims, except under conditions outlined in WAC 296-20-124.

Prior authorization is required for x-rays subsequent to the initial study. Repeat or serial radiology examinations may be performed only upon adequate clinical justification to confirm changes in the condition(s) accepted. The subjective complaints and the objective findings substantiating the repeat study must be submitted by the practitioner in the request for authorization to the department or self-insurer.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-121, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-121, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-20-121, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-20-121, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-20-121, filed 12/1/77; Emergency Order 77-16, § 296-20-121, filed 9/6/77; Order 74-39, § 296-20-121, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-20-121, filed 1/30/74.]

WAC 296-20-124 Rejected and closed claims. (1) No payment will be made for treatment or medication on rejected claims or for services rendered after the date of claim closure.

(2) When the department or self-insurer has denied responsibility for an alleged injury or industrial condition the only services which will be paid are those which were carried out at the specific request of the department or the self-insurer and/or those examination or diagnostic services which served as a basis for the adjudication decision. Following the date of the order and notice of claim closure, the department or self-insurer will be responsible only for those services specifically requested or those examinations, and diagnostic services necessary to complete and file a reopening application.

(3) Periodic medical surveillance examinations will be covered by the department or self-insurer for workers with closed claims for asbestos-related disease, to include chest x-ray abnormalities, without the necessity of filing a reopening application when such examinations are recommended by accepted medical protocol.

(4) Replacement of prosthetics, orthotics, and special equipment can be provided on closed claims after prior authorization. See WAC 296-20-1102 for further information.

[Statutory Authority: Chapters 34.04 [34.05], 51.04, 51.32 and 51.36 RCW. 90-04-007, § 296-20-124, filed 1/26/90, effective 2/26/90. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-124, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-20-124, filed 11/24/76, effective 1/1/77.]

WAC 296-20-125 Billing procedures. All services rendered must be in accordance with the medical aid rules, fee schedules, and department policy. The department or self-insurer may reject bills for services rendered in violation of these rules. Workers may not be billed for services rendered in violation of these rules.

(1) Bills must be itemized on department or self-insurer forms or other forms which have been approved by the department or self-insurer. Bills may also be transmitted electronically using department file format specifications. Providers using any of the electronic transfer options must follow department instructions for electronic billing. Physicians, osteopaths, advanced registered nurse practitioners, chiropractors, naturopaths, podiatrists, psychologists, and registered physical therapists use the national standard HCFA 1500 health insurance claim form with the bar code placed 2/10 of an inch from the top and 1 1/2 inches from the left side of the form. Hospitals use the UB-92 billing form for institution services and the national standard HCFA 1500 health insurance claim form with the bar code placed 2/10 of an inch from the top and 1 1/2 inches from the left side of the form for professional services. Hospitals should refer to chapter 296-23A WAC for billing rules pertaining to institution, or facilities, charges. Pharmacies use the department's statement for pharmacy services. Dentists, equipment suppliers, transportation services, vocational services, and massage therapists use the department's statement for miscellaneous services. When billing the department for home health services, providers should use the "statement for home nursing services." Providers may obtain billing forms from the department's local service locations.

(2) Bills must specify the date and type of service, the appropriate procedure code, the condition treated, and the charges for each service.

(3) Bills submitted to the department must be completed to include the following:

(a) Worker's name and address;

(b) Worker's claim number;

(c) Date of injury;

(d) Referring doctor's name and L & I provider account number;

(e) Area of body treated, including ICD-9-CM code(s), identification of right or left, as appropriate;

(f) Dates of service;

(g) Place of service;

(h) Type of service;

(i) Appropriate procedure code, hospital revenue code, or national drug code;

(j) Description of service;

(k) Charge;

(l) Units of service;

(m) Tooth number(s);

(n) Total bill charge;

(o) The name and address of the practitioner rendering the services and the provider account number assigned by the department;

(p) Date of billing;

(q) Submission of supporting documentation required under subsection (6) of this section.

(4) Responsibility for the completeness and accuracy of the description of services and charges billed rests with the practitioner rendering the service, regardless of who actually completes the bill form;

(5) Vendors are urged to bill on a monthly basis. Bills must be received within one year of the date of service to be considered for payment.

(6) The following supporting documentation is required when billing for services:

(a) Laboratory and pathology reports;

(b) X-ray findings;

(c) Operative reports;

(d) Office notes;

(e) Consultation reports;

(f) Special diagnostic study reports;

(g) For BR procedures - see chapter 296-20 WAC for requirements; and

(h) Special or closing exam reports.

(7) The claim number must be placed on each bill and on each page of reports and other correspondence in the upper right-hand corner.

(8) The following considerations apply to rebills.

(a) If you do not receive payment or notification from the department within one hundred twenty days, services may be rebilled.

(b) Rebills must be submitted for services denied if a claim is closed or rejected and subsequently reopened or allowed. In these instances, the rebills must be received within one year of the date the final order is issued which subsequently reopens or allows the claim.

(c) Rebills should be identical to the original bill: Same charges, codes, and billing date.

(d) In cases where vendors rebill, please indicate "REBILL" on the bill.

(9) The department or self-insurer will adjust payment of charges when appropriate. The department or self-insurer must provide the health care provider or supplier with a written explanation as to why a billing or line item of a bill was adjusted at the time the adjustment is made. A written explanation is not required if the adjustment was made solely to conform with the maximum allowable fees as set by the department. Any inquiries regarding adjustment of charges must be received in the required format within ninety days from the date of payment to be considered. Refer to the medical aid rules for additional information.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-125, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-20-125, filed 7/23/87; 86-20-074 (Order 86-36), § 296-20-125, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-20-125, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-20-125, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-125, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-20-125, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-20-125, filed 12/1/77; Emergency Order 77-16, § 296-20-125, filed 9/6/77; Order 75-39, § 296-20-125, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-20-125, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-20-125, filed 1/30/74; Order 71-6, § 296-20-125, filed 6/1/71; Order 70-12, § 296-20-125, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-20-125, filed 11/27/68, effective 1/1/69.]

WAC 296-20-12501 Physician assistant billing procedure. Billing for physician assistant services can be made only by the supervising physician at ninety percent of the value listed in the fee schedules. Payment will be made directly to the supervising physician. All physician assistant services must be identified by using physician assistant modifiers, as listed in chapter 296-21 WAC and the fee schedules.

(1) Bills must be itemized on department or self-insurer forms, as the case may be, specifying: The date, type of service and the charges for each service.

(2) The bill form must be completed in detail to include the claim number. While the name of the physician's assistant rendering service must be included on the bill, all bills must be submitted under the supervising physician account number. Bills will be accepted when signed by other than the practitioner rendering services. When bills are prepared by someone else, the responsibility for the completeness and accuracy of the description of services and charges rests with the supervising physician.

(3) For a bill to be considered for payment, it must be received in the department or by the self-insurer within one year from the date each specific treatment and/or service was rendered or performed. Whenever possible, bills should be submitted monthly.

(4) Bills cannot be paid for services rendered while a claim is closed.

(5) The department or self-insurer may deny payment of bills for services rendered in violation of the medical aid rules or department policy. Workers may not be billed for services rendered in violation of these rules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-12501, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-12501, filed 11/30/79, effective 1/1/80.]

WAC 296-20-132 Determination of conversion factor adjustments. Adjustments to the conversion factors for providers and services covered by the fee schedules and by department policy may occur annually following prior public hearings.

Such adjustments will be based on the estimated increase/decrease in the state's average wage for the current year and on other factors as determined by department policy. The following calendar year's estimate, of the average state wage will be adjusted to reflect the actual increase/decrease in the state's average wage for the preceding year.

The total percentage change for any one calendar year for the conversion factors may not exceed the total of the estimated increase/decrease in the current year, plus or minus the actual adjustment for the preceding calendar year.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 96-10-086, § 296-20-132, filed 5/1/96, effective 7/1/96. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-132, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 88-24-011 (Order 88-28), § 296-20-132, filed 12/1/88, effective 1/1/89; 82-24-050 (Order 82-39), § 296-20-132, filed 11/29/82, effective 1/1/84.]

WAC 296-20-135 Conversion factors. (1) Conversion factors are used to calculate payment levels for services reimbursed under the Washington resource based relative value scale (RBRVS), and for anesthesia services payable with base and time units.

(2) **Washington RBRVS** services have a conversion factor of $47.61. The fee schedules list the reimbursement levels for these services.

(3) **Anesthesia services** that are paid with base and time units have a conversion factor of $2.02 per minute. The base units and payment policies can be found in the fee schedules.

(4) Services that do **not** use a conversion factor to establish reimbursement levels have dollar values, not relative values listed in the fee schedules.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 98-09-125, § 296-20-135, filed 4/22/98, effective 7/1/98; 97-10-017, § 296-20-135, filed 4/28/97, effective 7/1/97. Statutory Authority: RCW 51.04.020 and 51.04.030. 96-19-060. §296-20-135, filed 9/16/96, effective 10/17/96; 96-10-086, § 296-20-135, filed 5/1/96, effective 7/1/96; 95-17-001 § 296-20-135, filed 8/2/95, effective 10/1/95; 95-05-072, § 296-20-135, filed 2/15/95, effective 3/18/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-02-045 and 94-03-008, § 296-20-135, filed 12/30/93 and 1/6/94, effective 3/1/94; 93-16-072, § 296-20-135, filed 8/1/93, effective 9/1/93.

Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-02-063, § 296-20-135, filed 12/28/90, effective 1/28/91; 88-24-011 (Order 88-28), § 296-20-135, filed 12/1/88, effective 1/1/89; 87-03-004 (Order 86-45), § 296-20-135, filed 1/8/87; 83-24-016 (Order 83-35), § 296-20-135, filed 11/30/83, effective 1/1/84; 82-24-050 (Order 82-39), § 296-20-135, filed 11/29/82, effective 7/1/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-20-135, filed 11/30/81, effective 1/1/82; 80-18-033 (Order 80-24), § 296-20-135, filed 12/1/80, effective 1/1/81. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-135, filed 11/30/79, effective 1/1/80; Order 77-27, § 296-20-135, filed 11/30/77, effective 1/1/78; Order 76-34, § 296-20-135, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-20-135, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-20-135, filed 1/30/74; Order 71-6, § 296-20-135, filed 6/1/71; Order 68-7, § 296-20-135, filed 11/27/68, effective 1/1/69.]

WAC 296-20-170 Pharmacy—Acceptance of rules and fees. Acceptance and filling of a prescription for a worker entitled to benefits under the industrial insurance law, constitutes acceptance of the department's rules and fees. When there is questionable eligibility, (i.e., no claim number, prescription is for medication other than usually prescribed for industrial injury; or pharmacist has reason to believe claim is closed or rejected), the pharmacist may require the worker to pay for the prescription. In these cases, the pharmacist must furnish the worker with a signed receipt and a non-negotiable copy of the prescription including national drug code and quantity or a completed department pharmacy bill form signed in the appropriate areas verifying worker has paid for the prescribed item(s) in order for the worker to bill the department or self-insurer for reimbursement. The worker may not be charged more than the amount allowable by the department or self-insurer. The worker must submit such reimbursement request within one year of the date of service.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-170, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-170, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 80-18-033 (Order 80-24), § 296-20-170, filed 12/1/80, effective 1/1/81; Order 76-34, § 296-20-170, filed 11/24/76, effective 1/1/77.]

WAC 296-20-17001 Allowance and payment for medication. The department or self-insurer will pay for medications or supplies dispensed for the treatment of conditions resulting from an industrial injury and/or conditions which are retarding the recovery from the industrial injury, for which the department or self-insurer has accepted temporary responsibility.

Approved generics are to be substituted for brand name pharmaceuticals in all cases unless the worker's condition will not tolerate a generic preparation and the prescribing physician indicates no substitution is permitted. A list of approved generics and their base cost will be published periodically by the department.

Items not normally paid include: Syringes, injectables, heating pads, vibrators, personal appliances, oral nutritional supplements, anorexiants, and medications normally prescribed for systemic conditions. These items may be authorized to certain individuals in unusual circumstances; prior approval from the department or self-insurer is mandatory.

Rental or purchase of medical equipment must be prior authorized by the department or self-insurer.

No bills will be paid for medication dispensed after the date of order and notice of claim closure, on an accepted claim; nor, on rejected claims; nor for conditions unrelated to the industrial condition.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-17001, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-20-17001, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 80-18-033 (Order 80-24), § 296-20-17001, filed 12/1/80, effective 1/1/81; Order 76-34, § 296-20-17001, filed 11/24/76, effective 1/1/77.]

WAC 296-20-17002 Billing. In addition to the billing procedures described in WAC 296-20-125 and in department policy the current national drug code number for each prescribed drug, followed by the average wholesale price to the pharmacy must be entered on each prescription. The department's statement for pharmacy services must be used when billing the department for NDC medications and supplies. The department's statement for miscellaneous services must be used when billing the department for non-NDC medications and supplies. In addition, the claimant's name, claim number, date of injury, prescribing doctor's name and department of labor and industries provider number; and the assigned department provider number for the pharmacy must be on the bill. Bills for medication not containing this information will be returned to the pharmacy. Billing must be made within one year of the date of service. It is requested bills be presented on a monthly basis.

When billing the department for compound prescriptions, providers must use the "Statement for Compound Prescriptions."

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-20-17002, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-20-17002, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-20-17002, filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 80-18-033 (Order 80-24), § 296-20-17002, filed 12/1/80, effective 1/1/81; Order 76-34, § 296-20-17002, filed 11/24/76, effective 1/1/77.]

WAC 296-20-200 General information. (1) The department of labor and industries has promulgated the following rules and categories to provide a comprehensive system of classifying unspecified permanent partial disabilities in the proportion they reasonably bear to total bodily impairment. The department's objectives are to reduce litigation and establish more certainty and uniformity in the rating of unspecified permanent partial disabilities pursuant to RCW 51.32.080(2).

(2) The following system of rules and categories directs the examiner's attention to the actual conditions found and establishes a uniform system for conducting rating examinations and reporting findings and conclusions in accord with broadly accepted medical principles.

The evaluation of bodily impairment must be made by experts authorized to perform rating examinations. This system recognizes and provides for this. After conducting the examination, the examiner will choose the appropriate category for each bodily area or system involved in the particular claim and include this information in the report. The examiner will, therefore, in addition to describing the worker's condition in the report, submit the conclusions as to the rela-

tive severity of the impairment by giving it in terms of a defined condition rather than a personal opinion as to a percentage figure. In the final section of this system of categories and rules are some rules for determining disabilities and the classification of disabilities in bodily impairment is listed for each category. These last provisions are for the department's administrative use in acting upon the expert opinions which have been submitted to it.

(3) In preparing this system, the department has complied with its duty to enact rules classifying unspecified disabilities in light of statutory references to nationally recognized standards or guides for determining various bodily impairments. Accordingly, the department has obtained and acted upon sound established medical opinion in thus classifying unspecified disabilities in the reasonable proportion they bear to total bodily impairment. In framing descriptive language of the categories and in assigning a percentage of disability, careful consideration has been given to nationally recognized medical standards and guides. Both are matters calling for the use of expert medical knowledge. For this reason, the meaning given the words used in this set of categories and accompanying rules, unless the text or context clearly indicates the contrary, is the meaning attached to the words in normal medical usage.

(4) The categories describe levels of physical and mental impairment. Impairment is anatomic or functional abnormality or loss of function after maximum medical rehabilitation has been achieved. This is the meaning of "impairment" as the word is used in the guides mentioned above. This standard applies to all persons equally, regardless of factors other than loss of physical or mental function. Impairment is evaluated without reference to the nature of injury or the treatment therefore, but is based on the functional loss due to the injury or occupational disease. The categories have been framed to include conditions in other bodily areas which derive from the primary impairment. The categories also include the presence of pain, tenderness and other complaints. Workers with comparable loss of function thus receive comparable awards.

(5) These rules and categories (WAC 296-20-200 through 296-20-690) shall only be applicable to compensable injuries occurring on or after the effective date of these rules and categories.

(6) These rules and categories (WAC 296-20-200 through 296-20-690) shall be applicable only to cases of permanent partial disability. They have no applicability to determinations of permanent total disability.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-20-200, filed 4/14/97 effective 5/15/97. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-20-200, filed 3/8/91, effective 5/1/91; Order 74-32, § 296-20-200, filed 6/21/74, effective 10/1/74.]

WAC 296-20-210 General rules. These general rules establish a uniform standard for conducting examinations and submitting reports of examinations. These general rules must be followed by doctors who make examinations or evaluations of permanent bodily impairment.

(1) Examinations for the determination of the extent of permanent bodily impairment shall be made only by doctors currently licensed in medicine and surgery (including osteopathic and podiatric) or dentistry, and department-approved chiropractors. A chiropractic evaluation of permanent impairment may be performed only where the worker has been clinically managed by a chiropractor.

(2) Whenever an examination is made, the examiner shall record, among other pertinent information, the complete history as obtained from the person examined; the complete history of past injuries and diseases; the complaints; the age, sex, height and weight; x-ray findings and diagnostic tests made or reviewed in connection with the examination; the diagnosis; and all findings, including negative findings, in all bodily areas and systems where a detailed review of systems reveals past or present complaints. The examiner shall record his conclusions as to: Whether the residuals of the injury are fixed; whether treatment is required for the injury and, if so, any treatment shall be described. If the examiner finds residuals of the injury are fixed, he shall record the appropriate category or categories of permanent impairment for diagnoses attributable to the industrial injury or occupational disease. Conditions or impairments not attributable to the industrial injury or occupational disease shall be described and diagnosed in the report, with a description of how they affect the person examined and the appropriate category of permanent impairment where possible.

(3) The examiner shall not assign a percentage figure for permanent bodily impairment described in the categories established herein.

(4) Reports shall specify diagnoses and medical terms as listed in current procedural terminology (CPT), current medical information and terminology (CMIT), international classification of diseases adopted (ICDA), or standard nomenclature of disease, except when otherwise specified in these rules.

(5) Workers who are scheduled for disability examinations are allowed to bring with them an accompanying person to be present during the physical examination. The accompanying person cannot be compensated in any manner, except that language interpreters may be necessary for the communication process and may be reimbursed for interpretative services.

The department may designate those conditions under which the accompanying person is allowed to be present during the disability examination process.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-20-210, filed 4/14/97 effective 5/15/97. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 88-14-012 (Order 88-09), § 296-20-210, filed 6/24/88; Order 74-32, § 296-20-210, filed 6/21/74, effective 10/1/74.]

WAC 296-20-220 Special rules for evaluation of permanent bodily impairment. (1) Evaluations of permanent bodily impairment using categories require uniformity in procedure and terminology. The following rules have been enacted to produce this uniformity and shall apply to all evaluations of permanent impairment of an unspecified nature.

(a) Gradations of relative severity shall be expressed by the words "minimal, " "mild, " "moderate" and "marked" in an ascending scale. "Minimal" shall describe deviations from normal responses which are not medically significant. "Mild," "moderate" and "marked" shall describe ranges of medically significant deviations from normal responses.

"Mild" shall describe the least severe third. "Moderate" shall describe the middle third. "Marked" shall describe the most severe third.

(b) "Permanent" describes those conditions which are fixed, lasting and stable, and from which within the limits of medical probability, further recovery is not expected.

(c) "Impairment" means a loss of physical or mental function.

(d) "Total bodily impairment, " as used in these rules, is the loss of physical or mental function which is essentially complete short of death.

(e) The examiner shall not assign a percentage figure for permanent bodily impairment described in the categories established herein.

(f) The method of evaluating impairment levels is by selection of the appropriate level of impairment. These descriptive levels are called "categories." Assessments of the level of impairment are to be made by comparing the condition of the injured workman with the conditions described in the categories and selecting the most appropriate category.

These rules and categories for various bodily areas and systems provide a comprehensive system for the measurement of disabling conditions which are not already provided for in the list of specified permanent partial disabilities in RCW 51.32.080(1). Disabilities resulting from loss of central visual acuity, loss of an eye by enucleation, loss of hearing, amputation or loss of function of the extremities will continue to be evaluated as elsewhere provided in RCW 51.32.080.

The categories have been classified in percentages in reasonable proportion to total bodily impairment for the purpose of determining the proper award. Provision has been made for correctly weighing the overall impairment due to particular injuries or occupational disease in cases in which there are preexisting impairments.

(g) The categories of the various bodily areas and systems are listed in the order of increasing impairment except as otherwise specified. Where several categories are given for the evaluation of the extent of permanent bodily impairment, the impairments in the higher numbered categories, unless otherwise specified, include the impairments in the lesser numbered categories. No category for a condition due to an injury shall be selected unless that condition is permanent as defined by these rules.

The examiner shall select the one category which most accurately indicates the overall degree of permanent impairment unless otherwise instructed. Where there is language in more than one category which may appear applicable, the category which most accurately reflects the overall impairment shall be selected.

The categories include appropriate subjective complaints in an ascending scale in keeping with the severity of objective findings, thus a higher or lower category is not to be selected purely on the basis of unusually great or minor complaints.

(h) When the examination discloses a preexisting permanent bodily impairment in the area of the injury, the examiner shall report the findings and any category of impairment appropriate to the worker's condition prior to the industrial injury in addition to the findings and the categories appropriate to the worker's condition after the injury.

(i) Objective physical or clinical findings are those findings on examination which are independent of voluntary action and can be seen, felt, or consistently measured by examiners.

(j) Subjective complaints or symptoms are those perceived only by the senses and feelings of the person being examined which cannot be independently proved or established.

(k) Muscle spasm as used in these rules is an involuntary contraction of a muscle or group of muscles of a more than momentary nature.

(l) An involuntary action is one performed independently of the will.

(m) These special rules for evaluation of permanent bodily impairment shall apply to all examinations for the evaluation of impairment, in accordance with RCW 51.32.080, for the body areas or systems covered by or enumerated in WAC 296-20-230 through 296-20-660.

(n) The rules for evaluation of each body area or system are an integral part of the categories for that body area or system.

(o) In cases of injury or occupational disease of bodily areas and/or systems which are not included in these categories or rules and which do not involve loss of hearing, loss of central visual acuity, loss of an eye by enucleation or loss of the extremities or use thereof, examiners shall determine the impairment of such bodily areas and/or systems in terms of percentage of total bodily impairment.

(p) The words used in the categories of impairments, in the rules for evaluation of specific impairments, the general rules, and the special rules shall be deemed, unless the context indicates the contrary, to have their general and accepted medical meanings.

(q) The rating of impairment due to total joint replacement shall be in accordance with the limitation of motion guidelines as set forth in the "Guides to the Evaluation of Permanent Impairment" of American Medical Association, with department of labor and industries acknowledgement of responsibility for failure of prostheses beyond the seven year limitation.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-20-220, filed 4/14/97 effective 5/15/97. Statutory Authority: RCW 51.04.030 and 51.16.035. 79-12-086 (Order 79-18), § 296-20-220, filed 11/30/79, effective 1/1/80; Order 74-32, § 296-20-220, filed 6/21/74, effective 10/1/74.]

WAC 296-20-230 Cervical and cervico-dorsal impairments. (1) Rules for evaluation of cervical and cervico-dorsal impairments are as follows:

(a) Muscle spasm or involuntary guarding, bony or fibrous fusion, any arthritic condition, internal fixation devices or other physical finding shall be considered, in selecting the appropriate category, only insofar as productive of cervical or cervico-dorsal impairment.

(b) Gradations of clinical findings of cervico-dorsal impairments in terms of "mild, " "moderate" or "marked" shall be based on objective medical tests.

(c) Categories 2, 3, 4 and 5 include the presence of complaints of whatever degree in the neck or extremities.

(d) Bladder and/or bowel sphincter impairments deriving from cervical and cervico-dorsal impairment shall be evaluated separately.

(e) Neck as used in these rules and categories shall include the cervical and adjacent areas.

[Order 74-32, § 296-20-230, filed 6/21/74, effective 10/1/74.]

WAC 296-20-240 Categories of permanent cervical and cervico-dorsal impairments. (1) No objective clinical findings are present. Subjective complaints may be present or absent.

(2) Mild cervico-dorsal impairment, with objective clinical findings of such impairment with neck rigidity substantiated by x-ray findings of loss of anterior curve, without significant objective neurological findings.

This and subsequent categories include the presence or absence of pain locally and/or radiating into an extremity or extremities. This and subsequent categories also include the presence or absence of reflex and/or sensory losses. This and subsequent categories also include objectively demonstrable herniation of a cervical intervertebral disc with or without discectomy and/or fusion, if present.

(3) Mild cervico-dorsal impairment, with objective clinical findings of such impairment, with neck rigidity substantiated by x-ray findings of loss of anterior curve, narrowed intervertebral disc spaces and/or osteoarthritic lipping of vertebral margins, with significant objective findings of mild nerve root involvement.

This and subsequent categories include the presence or absence of any other neurological deficits not otherwise specified in these categories with the exception of bladder and/or bowel sphincter impairments.

(4) Moderate cervico-dorsal impairment, with objective clinical findings of such impairment, with neck rigidity substantiated by x-ray findings of loss of anterior curve, narrowed intervertebral disc spaces and/or osteoarthritic lipping of vertebral margins, with objective findings of moderate nerve root involvement with weakness and numbness in one or both upper extremities.

(5) Marked cervico-dorsal impairment, with marked objective clinical findings of such impairment, with neck rigidity substantiated by x-ray findings of loss of anterior curve, narrowed intervertebral disc spaces and/or osteoarthritic lipping of vertebral margins, with objective findings of marked nerve root involvement with weakness and numbness in one or both upper extremities.

[Order 74-32, § 296-20-240, filed 6/21/74, effective 10/1/74.]

WAC 296-20-250 Impairments of the dorsal area. (1) Rules for evaluation of permanent dorsal area impairments are as follows:

(a) Muscle spasm or involuntary guarding, bony or fibrous fusion, any arthritic condition, internal fixation devices or other physical finding shall be considered, in selection of the appropriate category, only insofar as productive of dorsal area impairment.

(b) Gradations of clinical findings of dorsal impairments in terms of "mild, " "moderate" or "marked" shall be based on objective medical tests.

(c) Categories 2 and 3 include the presence of complaints of whatever degree.

(d) Bladder and/or bowel sphincter impairments deriving from impairments of the dorsal area shall be evaluated separately.

(e) Impairments which also involve the cervical or lumbar areas shall be evaluated only under the cervical and cervico-dorsal or dorsolumbar and lumbosacral categories.

[Order 74-32, § 296-20-250, filed 6/21/74, effective 10/1/74.]

WAC 296-20-260 Categories of permanent dorsal area impairments. (1) No objective clinical findings are present. Subjective complaints may be present or absent.

(2) Mild or moderate dorsal impairment, with objective clinical findings of such impairment, without significant objective neurological findings, with or without x-ray changes of narrowed intervertebral disc spaces and/or osteoarthritic lipping of intervertebral margins. Includes the presence or absence of reflex and/or sensory losses.

This and the subsequent category include the presence or absence of pain, locally or radiating from the dorsal area.

(3) Marked dorsal impairment, with marked objective clinical findings, with marked x-ray findings of narrowed intervertebral disc spaces and/or osteoarthritic lipping of vertebral margins, with significant objective neurological deficits, complaints and/or findings, deriving from dorsal impairment.

[Order 74-32, § 296-20-260, filed 6/21/74, effective 10/1/74.]

WAC 296-20-270 Dorso-lumbar and lumbosacral impairments. (1) Rules for evaluation of permanent dorso-lumbar and lumbosacral impairments are as follows:

(a) Muscle spasm or involuntary guarding, bony or fibrous fusion, any arthritic condition, internal fixation devices or other physical finding shall be considered, in selecting the appropriate category, only insofar as productive of low back impairment.

(b) Gradations of clinical findings of low back impairments in terms of "mild, " "moderate" or "marked" shall be based on objective medical tests.

(c) All of the low back categories include the presence of complaints of whatever degree.

(d) Any and all neurological deficits, complaints, and/or findings in other bodily areas or systems which are the result of dorso-lumbar and lumbosacral impairments, except for objectively demonstrated bladder and/or bowel sphincter impairments, shall be evaluated by the descriptions contained in the categories of dorso-lumbar and lumbosacral impairments.

(e) Bladder and/or bowel sphincter impairments deriving from dorso-lumbar and lumbosacral impairments shall be evaluated separately.

(f) Low back as used in these rules and categories includes the lumbar and adjacent areas.

[Order 74-32, § 296-20-270, filed 6/21/74, effective 10/1/74.]

WAC 296-20-280 Categories of permanent dorso-lumbar and lumbosacral impairments. (1) No objective

clinical findings. Subjective complaints and/or sensory losses may be present or absent.

(2) Mild low back impairment, with mild intermittent objective clinical findings of such impairment but no significant x-ray findings and no significant objective motor loss. Subjective complaints and/or sensory losses may be present.

(3) Mild low back impairment, with mild continuous or moderate intermittent objective clinical findings of such impairment but without significant x-ray findings or significant objective motor loss.

This and subsequent categories include: The presence or absence of reflex and/or sensory losses; the presence or absence of pain locally and/or radiating into an extremity or extremities; the presence or absence of a laminectomy or discectomy with normally expected residuals.

(4) Mild low back impairment, with mild continuous or moderate intermittent objective clinical findings of such impairment, with mild but significant x-ray findings and with mild but significant motor loss objectively demonstrated by atrophy and weakness of a specific muscle or muscle group.

This and subsequent categories include the presence or absence of a surgical fusion with normally expected residuals.

(5) Moderate low back impairment, with moderate continuous or marked intermittent objective clinical findings of such impairment, with moderate x-ray findings and with mild but significant motor loss objectively demonstrated by atrophy and weakness of a specific muscle or muscle group.

(6) Marked low back impairment, with marked intermittent objective clinical findings of such impairment, with moderate or marked x-ray findings and with moderate motor loss objectively demonstrated by atrophy and weakness of a specific muscle or muscle group.

(7) Marked low back impairment, with marked continuous objective clinical findings of such impairment, with marked x-ray findings and with marked motor loss objectively demonstrated by marked atrophy and weakness of a specific muscle or muscle group.

(8) Essentially total loss of low back functions, with marked x-ray findings and with marked motor loss objectively demonstrated by marked atrophy and weakness of a muscle group or groups.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-20-280, filed 8/2/83; Order 74-32, § 296-20-280, filed 6/21/74, effective 10/1/74.]

WAC 296-20-290 Impairments of the pelvis. (1) Rules for impairment of the pelvis:

(a) All of these categories include the presence of complaints of whatever degree.

(b) Categories 2, 5, 6 and 7 describe separate entities and more than one may be selected when appropriate. Category 9 includes the findings described in Category 3, and Category 8 includes the findings described in Category 4.

[Order 74-32, § 296-20-290, filed 6/21/74, effective 10/1/74.]

WAC 296-20-300 Categories of permanent impairments of the pelvis. (1) Healed pelvic fractures without displacement, without residuals; healed fractures with displacement without residuals, of: Single ramus, bilateral rami, ilium, innominate or coccyx; or healed fracture of single rami with displacement with deformity and residuals.

(2) Healed fractures with displacement with deformity and residuals of ilium.

(3) Healed fractures of symphysis pubis, without separation with displacement without residuals.

(4) Healed fractures of sacrum with displacement without residuals.

(5) Healed fracture of bilateral rami with displacement with deformity and residuals.

(6) Excision or nonunion of fractures of coccyx.

(7) Healed fractures of innominate, displaced one inch or more, with deformity and residuals.

(8) Healed fractures of sacrum extending into sacroiliac joint with deformity and residuals.

(9) Healed fractures of symphysis, displaced or separated, with deformity and residuals.

[Order 74-32, § 296-20-300, filed 6/21/74, effective 10/1/74.]

WAC 296-20-310 Convulsive neurological impairments. (1) Rules for evaluation of convulsive neurological impairments:

(a) The description of Categories 2, 3 and 4 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-310, filed 6/21/74, effective 10/1/74.]

WAC 296-20-320 Categories of permanent convulsive neurological impairments. (1) No electroencephalogram findings of convulsive neurological disorder. Subjective complaints may be present or absent.

(2) Electroencephalogram findings of convulsive neurological disorder, but on appropriate medication there are no seizures.

(3) Electroencephalogram findings of convulsive neurological disorder, and on appropriate medication there are each year either one through four major seizures or one through twelve minor seizures.

(4) Electroencephalogram findings of convulsive neurological disorder, and on appropriate medication there are each year either more than four major seizures or more than twelve minor seizures.

[Order 74-32, § 296-20-320, filed 6/21/74, effective 10/1/74.]

WAC 296-20-330 Impairments of mental health. (1) Rules for evaluation of permanent impairment of mental health:

(a) Mental illness means malfunction of the psychic apparatus that significantly interferes with ordinary living.

(b) Each person has a pattern of adjustment to life. The pattern of adjustment before the industrial injury or occupational disease serves as a base line for all assessments of whether there has been a permanent impairment due to the industrial injury or occupational disease.

(c) To determine the preinjury pattern of adjustment, all evaluations of mental health shall contain a complete preinjury history including, but not necessarily limited to: Family background and the relationships with parents or other nurturing figures; extent of education and reaction to it; military experience, if any; problems with civil authorities; any his-

tory of prolonged illness, and difficulty with recovery; any history of drug abuse or alcoholism; employment history, the extent of and reaction to responsibility, and relationships with others at work; capacity to make and retain friends; relationships with spouses and children; nature of daily activities, including recreation and hobbies; and lastly, some summary statement about the sources of the patient's self-esteem and sense of identity. Both strengths and vulnerabilities of the person shall be included.

(d) Differences in adjustment patterns before and after the industrial injury or occupational disease shall be described, and the report shall contain the examining physician's opinion as to whether any differences: (1) Are the result of the industrial injury or occupational disease and its sequelae, in the sense they would not have occurred had there not been the industrial injury or occupational disease; (2) are permanent or temporary; (3) are more than the normal, self-correcting and expectable response to the stress of the industrial injury or occupational disease; (4) constitute an impairment psychosocially or physiologically; and (5) are susceptible to treatment, and, if so, what kind. The presence of any unrelated or coincidental mental impairment shall always be mentioned.

(e) All reports of mental health evaluations shall use the diagnostic terminology listed in the *Diagnostic and Statistical Manual of Mental Disorders of the American Psychiatric Association.*

(f) No classification of impairment shall be made for complaints where the quality of daily life does not differ substantially from the preinjury pattern. A patient not currently employed may not engage in the same activities as when working, but the level and variety of his activities and zest for them shall distinguish the purely situational difference from cases of regression and withdrawal. In cases where some loss of use of body member is claimed, no category or impairment shall be assigned unless there are objective findings of physiologic regression or consistent evidence of altered adaptability.

(g) The physician shall identify the schizoid, antisocial, inadequate, sociopathic, passive, hysterical, paranoid, or dependent personality types. Patients with these longstanding character disorders may show problem behavior that seems more related to current stress than it is, sometimes unconsciously insinuating themselves into difficult situations of which they then complain. Emotional reactions to an injury and subsequent events must be carefully evaluated in these patients. It must be medically probable that such reactions are permanent before a category of impairment can be attributed to the injury; temporary reactions or preexisting psychopathology must be differentiated.

[Order 74-32, § 296-20-330, filed 6/21/74, effective 10/1/74.]

WAC 296-20-340 Categories for evaluation of permanent impairments of mental health. (1) Nervousness, irritability, worry or lack of motivation following an injury and commensurate with it and/or other situational responses to injury that do not alter significantly the life adjustment of the patient may be present.

(2) Any and all permanent worsenings of preexisting personality traits or character disorders where aggravation of preexisting personality trait or character disorder is the major diagnosis; mild loss of insight, mildly deficient judgment, or rare difficulty in controlling behavior, anxiety with feelings of tension that occasionally limit activity; lack of energy or mild apathy with malaise; brief phobic reactions under usually avoidable conditions; mildly unusual and overly rigid responses that cause mild disturbance in personal or social adjustment; rare and usually self-limiting psycho-physiological reactions; episodic hysterical or conversion reactions with occasional self-limiting losses of physical functions; a history of misinterpreted conversations or events, which is not a preoccupation; is aware of being absentminded, forgetful, thinking slowly occasionally or recognizes some unusual thoughts; mild behavior deviations not particularly disturbing to others; shows mild over-activity or depression; personal appearance is mildly unkempt. Despite such features, productive activity is possible most of the time. If organicity is present, some difficulty may exist with orientation; language skills, comprehension, memory; judgment; capacity to make decisions; insight; or unusual social behavior; but the patient is able to carry out usual work day activities unassisted.

(3) Episodic loss of self-control with risk of causing damage to the community or self; moments of morbid apprehension; periodic depression that disturbs sleep and eating habits or causes loss of interest in usual daily activities but self-care is not a problem; fear-motivated behavior causing mild interference with daily life, frequent emotogenic organ dysfunctions requiring treatment; obsessive-compulsive reactions which limit usual activity; periodic losses of physical function from hysterical or conversion reactions; disturbed perception in that patient does not always distinguish daydreams from reality; recognizes his fantasies about power and money are unusual and tends to keep them secret; thought disturbances cause patient to fear the presence of serious mental trouble; deviant social behavior can be controlled on request; exhibits periodic lack of appropriate emotional control; mild disturbance from organic brain disease such that a few work day activities require supervision.

(4) Very poor judgment, marked apprehension with startle reactions, foreboding leading to indecision, fear of being alone and/or insomnia; some psychomotor retardation or suicidal preoccupation; fear-motivated behavior causing moderate interference with daily life; frequently recurrent and disruptive organ dysfunction with pathology of organ or tissues; obsessive-compulsive reactions causing inability to work with others or adapt; episodic losses of physical function from hysterical or conversion reactions lasting longer than several weeks; misperceptions including sense of persecution or grandiosity which may cause domineering, irritable or suspicious behavior; thought disturbance causing memory loss that interferes with work or recreation; periods of confusion or vivid daydreams that cause withdrawal or reverie; deviations in social behavior which cause concern to others; lack of emotional control that is a nuisance to family and associates; moderate disturbance from organic brain disease such as to require a moderate amount of supervision and direction of work day activities.

(5) Marked apprehension so as to interfere with memory and concentration and/or to disturb markedly personal relationships; depression causing marked loss of interest in daily

activities, loss of weight, unkempt appearance, marked psycho-motor retardation, suicidal preoccupation or attempts, or marked agitation as well as depression; marked phobic reactions with bizarre and disruptive behavior; psychophysiological reactions resulting in lasting organ or tissue damage; obsessive-compulsive reactions that preclude patient's usual activity; frequent or persistent loss of function from conversion or hysterical reactions with regressive tissue or organ change; defects in perception including frank illusions or hallucinations occupying much of the patient's time; behavior deviations so marked as to interfere seriously with the physical or mental well-being or activities of others; lack of emotional control including marked irritability or overactivity.

[Order 74-32, § 296-20-340, filed 6/21/74, effective 10/1/74.]

WAC 296-20-350 Cardiac impairments. (1) Rule for evaluation of permanent cardiac impairments:

(a) Classification of impairment using the following categories shall be based upon a carefully obtained history, thorough physical examination and the use of appropriate laboratory aids.

[Order 74-32, § 296-20-350, filed 6/21/74, effective 10/1/74.]

WAC 296-20-360 Categories of permanent cardiac impairments. (1) No objective findings are present. Subjective complaints may be present or absent.

(2) Objective findings of mild organic heart disease but no signs of congestive heart failure. No medically appropriate symptoms produced by prolonged exertion or intensive effort or marked emotional stress.

(3) Objective findings of mild organic heart disease but no signs of congestive heart failure. Medically appropriate symptoms produced by prolonged exertion or intensive effort, or marked emotional stress but not by usual daily activities.

(4) Objective findings of moderate organic heart disease but no signs of congestive heart failure. Medically appropriate symptoms produced by prolonged exertion or intensive effort or marked emotional stress but not by usual daily activities.

(5) Objective findings of marked organic heart disease with minimal signs of congestive heart failure with therapy. Medically appropriate symptoms produced by usual daily activities.

(6) Objective findings of marked organic heart disease with mild to moderate signs of congestive heart failure despite therapy. Medically appropriate symptoms produced by usual daily activities.

[Order 74-32, § 296-20-360, filed 6/21/74, effective 10/1/74.]

WAC 296-20-370 Respiratory impairments. (1) Rules for evaluation of permanent respiratory impairments:

(a) Definitions.

(i) "FEV1" means the forced expiratory volume in 1 second as measured by a spirometric test performed as described in the most current *American Thoracic Society Statement on Standardization of Spirometry*, and using equipment, methods of calibration, and techniques that meet American Thoracic Society (ATS) criteria including reproducibility. The measurement used must be taken from a spirogram which is technically acceptable and represents the patient's best effort. The measurement is to be expressed as both an absolute value and as a percentage of the predicted value. The predicted values are those listed in the most current edition of the *American Medical Association (AMA) Guidelines* for rating permanent respiratory impairment.

(ii) "FVC" means the forced vital capacity as measured by a spirometric test in accordance with criteria described in (a)(i) of this subsection.

(iii) "FEV1/FVC" is a ratio calculated based on the ATS Guides criteria as described in the most current *American Thoracic Society Statement on Standardization of Spirometry*.

(iv) "Significant improvement" means a fifteen percent or greater improvement in FEV1 (volume) after a post-bronchodilator pulmonary function test.

(v) "DLCO" means the diffusion capacity of carbon monoxide as measured by a test based on predicted values demonstrated to be appropriate to the techniques and equipment of the laboratory performing the test according to current ATS standards. DLCO may be considered for impairment rating only if accompanied by evidence of impaired gas exchange based on exercise testing.

(vi) "VO2 Max" means the directly measured oxygen consumption at maximum exercise capacity of an individual as measured by exercise testing and oxygen consumption expressed in ml/kilo/min corrected for lean bodyweight. Estimated values from treadmill or other exercise tests without direct measurement are not acceptable. The factor limiting the exercise must be identified.

(vii) "Preexisting impairment" shall be reported as described in WAC 296-20-220 (1)(h).

(viii) "Coexisting" is a disease or injury not due to or causally related to the work-related condition that impacts the overall respiratory disability.

(ix) "Apportionment" is an estimate of the degree of impairment due to the occupational injury/exposure when preexisting or coexisting conditions are present.

(x) "Dyspnea" is the subjective complaint of shortness of breath. Dyspnea alone must not be used to determine the level of respiratory impairment. Dyspnea unexplained by objective signs of impairment or spirometry requires more extensive testing (i.e., VO2 Max).

(xi) Copies of the *American Thoracic Society Statement on Standardization of Spirometry* and ATS standards for measuring D_{LCO} can be obtained by ordering *Pulmonary Function Testing* from The American Thoracic Society, 1740 Broadway, New York, NY 10019-4374, Attn: ATS Statements. Copies of this document are available for review in the section of the office of the medical director, department of labor and industries, Tumwater building.

These standards are also available through the following references: "American Thoracic Society Committee on Proficiency Standards for Pulmonary Function Laboratories: Standardization of spirometry-1987 update." *Am Rev Respir Dis* 1987; 136:1285-1298. "American Thoracic Society D_{LCO} Standardization Conference: Single breath carbon monoxide diffusing capacity (transfer factor): Recommendations for a

standard technique." *Am Rev Respir Dis* 1987; 136:1299-1307.

(b) Evaluation procedures. Each report of examination must include the following, at a minimum:

(i) Identification data: Worker's name, claim number, gender, age, and race.

(ii) Detailed occupational history: Job titles of all jobs held since employment began. A detailed description of typical job duties, protective equipment worn, engineering controls present (e.g., ventilation) as well as the specific exposures and intensity (frequency and duration) of exposures. More detail is required for jobs involving potential exposure to known respiratory hazards.

(iii) History of the present illness: Chief complaint and description of all respiratory symptoms present (e.g., wheezing, cough, phlegm, chest pain, paroxysmal nocturnal dyspnea, dyspnea at rest and on exertion) as well as the approximate date of onset, and duration of each symptom, and aggravating and relieving factors.

(iv) Past medical history: Past history of childhood or adult respiratory illness, hay fever, asthma, bronchitis, chest injury, chest surgery, respiratory infections, cardiac problems, hospitalizations for chest or breathing problems and current medications.

(v) Lifestyle and environmental exposures: Descriptive history of exposures clinically related to respiratory disease including, but not limited to, tobacco use with type and years smoked. Use of wood as a primary heat source at home or hobbies that involve potential exposure to known respiratory tract hazards, and other environmental exposures.

(vi) Family history: Family history of respiratory or cardiac disease.

(vii) Physical examination findings: Vital signs including a measured height without shoes, weight, and blood pressure. Chest exam shall include a description of the shape, breathing, breath sounds, cardiac exam, and condition of extremities (e.g., cyanosis, clubbing, or edema).

(viii) Diagnostic tests: A chest x-ray shall be obtained in all cases. When available, the x-ray should be obtained using International Labor Organization (ILO) standard techniques and interpreted using the ILO classification system. The presence or absence of pleural thickening or interstitial abnormalities shall be noted. Pulmonary function reports including a description of equipment used, method of calibration, and the predicted values used. A hard copy of all pulmonary function tracings must be available for review. The report must contain at a minimum FEV1 and FVC and a narrative summary of an interpretation of the test results and their validity.

(ix) The rating of respiratory impairment. The rating of respiratory impairment shall be based on the pulmonary function test most appropriate to the respiratory condition. A prebronchodilator and postbronchodilator test must be performed on and results reported for all patients with demonstrated airway obstruction. The largest FEV1 or FVC, on either the prebronchodilator or postbronchodilator trial must be used for rating the impairment. If the FEV1 and FEV1/FVC result in different categories of impairment, the value resulting in a higher category of impairment will be used.

(x) The rating of persisting variable respiratory impairment with abnormal baseline function. If resting FEV1 is "abnormal" (below eighty percent predicted) and shows significant bronchodilator improvement (a greater than or equal to fifteen percent improvement in FEV1) one category of impairment must be added to the given category rating, but only when the work-related disease being rated is obstructive in nature. If there is substantial variability from test to test (and good effort), the severity of impairment may be rated, using the best fit into the category system, as described in WAC 296-20-380.

(xi) The rating of persisting variable respiratory impairment with normal baseline spirometry. Variable respiratory impairment due to allergic or irritative disorder of the respiratory tract, such as bronchial asthma or reactive airway disease, caused or permanently aggravated by factors in the work place, shall be evaluated by detailed narrative report, including the casual relationship to work factors, a discussion of the relative importance of nonwork related cofactors, such as preexisting asthma, tobacco usage, or other personal habits, the need for regular medication to substantially improve or control the respiratory condition, and the prognosis. When tests of ventilatory function, done when the patient is in clinical steady state, are normal (one second forced expiratory volume eighty percent or greater of predicted), an appropriate provocative bronchial challenge test (i.e., methacholine or histamine) shall be done to demonstrate the presence of unusual respiratory sensitivity.

(xii) At the time of the rating, the patient shall be off theophylline for at least twenty-four hours, beta agonists for at least twelve hours, and oral and/or inhaled steroids or cromolyn for at least two weeks, in order to determine severity of air-flow obstruction, unattenuated by therapy. If withdrawal of medication would produce a hazardous or life threatening condition, then the impairment cannot be rated at this time, and the physician must provide a statement describing the patient's condition and the effect of medication withdrawal.

(xiii) The method for standardizing provocative bronchial challenge testing, using either histamine or methacholine, shall be used. The test drug may be given either by continuous tidal volume inhalation of known concentrations, using an updraft nebulizer, for two minutes, or by the technique of intermittent deep breaths of increasing test drug strengths either via a Rosenthal dosimeter or updraft nebulizer, and the results shall be expressed either as the mg/ml concentration of test drug, or the cumulative breath units (1 breath of a 1 mg/ml solution equals one breath unit) which result in a prompt and sustained (at least three minute) fall in the FEV1, greater than twenty percent below baseline FEV1. Medications that can blunt the effect of bronchoprovocation testing shall be withheld prior to testing. Once testing is complete, the results shall be expressed in terms of normal, mild, moderate, or marked bronchial reactivity, as described in WAC 296-20-385.

If multiple bronchoprovocative inhalation challenge tests have been done, the examining physician shall select the one category (normal, mild, moderate, or marked) which most accurately indicates the overall degree of permanent impairment at the time of rating.

If the results of serial pulmonary function testing are extremely variable and the clinical course and use of medica-

tion also indicate major impairment, then the physician must make a statement in the formulation and medical evaluation containing, at a minimum: Diagnosis and whether work related or nonwork related; nature and frequency of treatment; stability of condition and work limitations; impairment.

(xiv) Further treatment needs. In all cases, the examining physician shall indicate whether further treatment is indicated and the nature, type, frequency, and duration of treatment recommended.

[Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.32.080(2). 94-03-073, § 296-20-370, filed 1/17/94, effective 3/1/94. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-20-370, filed 11/29/82, effective 1/1/83; Order 74-32, § 296-20-370, filed 6/21/74, effective 10/1/74.]

WAC 296-20-380 Categories of permanent respiratory impairments. (1) The FVC and FEV1 are greater than or equal to eighty percent of predicted normal for the person's age, gender, and height. The FEV1/FVC ratio is greater than or equal to .70. Subjective complaints may be present or absent. If exercise testing is done, the maximum oxygen consumption is greater than 25cc/kilo/min.

(2) The FVC or FEV1 is from seventy to seventy-nine percent of predicted, and if obstruction is present, the FEV1/FVC ratio is .60 - .69. If exercise testing is done, the maximum oxygen consumption is 22.5-25cc/kilo/min.

(3) The FVC or FEV1 is from sixty to sixty-nine percent of predicted, and if obstruction is present, the FEV1/FVC ratio is .60 - .69. If exercise testing is done, the maximum oxygen consumption is 20-22.4cc/kilo/min.

(4) The FVC or FEV1 is from fifty-one to fifty-nine percent of predicted. The FEV1/FVC ratio is .51 - .59. If exercise testing is done, the maximum oxygen consumption is 17.5-19.9cc/kilo/min.

(5) FVC from fifty-one to fifty-nine percent of predicted, or the FEV1 from forty-one to fifty percent of predicted, and if obstruction is present, the FEV1/FVC ratio is .41 - .50. If exercise testing is done, the maximum oxygen consumption is 15-17.4cc/kilo/min.

(6) The FVC is equal to or less than fifty percent of predicted or the FEV1 is equal to or less than forty percent of predicted. The FEV1/FVC ratio is equal to or less than .40. If exercise testing is done, the maximum oxygen consumption is less than 15cc/kilo/min.

[Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.32.080(2). 94-03-073, § 296-20-380, filed 1/17/94, effective 3/1/94. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-20-380, filed 11/29/82, effective 1/1/83; Order 74-32, § 296-20-380, filed 6/21/74, effective 10/1/74.]

WAC 296-20-385 Categories of persisting variable respiratory impairment with normal baseline spirometry. (1) "Normal" bronchial reactivity is demonstrated by an insignificant (less than twenty percent) fall from baseline FEV1 at test doses of histamine or methacholine, up to 16 mg/ml (continuous inhalation method) or up to 160 breath units (cumulative, repeated deep breath technique).

(2) "Mild" bronchial hyperactivity (BHR) is a significant (equal to or greater than twenty percent) fall in the FEV1 at test doses of 2.1-16 mg/ml, or 21-160 breath units.

(3) "Moderate" BHR is a significant (equal to or greater than twenty percent) fall in the FEV1 at test doses of 0.26-2 mg/ml, or 2.6-20 breath units.

(4) "Marked" BHR is a significant (equal to or greater than twenty percent) fall in the FEV1 at test doses equal to or less than .25 mg/ml, or 2.5 breath units.

[Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.32.080(2). 94-03-073, § 296-20-385, filed 1/17/94, effective 3/1/94.]

WAC 296-20-390 Air passage impairments. (1) Rule for evaluation of permanent air passage impairments:

(a) Categories 2, 3, 4 and 5 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-390, filed 6/21/74, effective 10/1/74.]

WAC 296-20-400 Categories of permanent air passage impairments. (1) No objective findings are present. Subjective complaints may be present or absent.

(2) Objective findings of one or more of the following air passage defects: Partial obstruction of oropharynx, laryngopharynx, larynx, trachea, bronchi, complete obstruction of nasopharynx or of nasal passages bilaterally. No dyspnea caused by the air passage defect even on activity requiring prolonged exertion or intensive effort.

(3) Objective findings of one or more of the following air passage defects: Partial obstruction of oropharynx, laryngopharynx, larynx, trachea, bronchi, complete obstruction of nasopharynx or of nasal passages bilaterally, dyspnea caused by the air passage defect produced only by prolonged exertion or intensive effort.

(4) Objective findings of one or more of the following air passage defects: Partial obstruction of oropharynx, laryngopharynx, larynx, trachea, bronchi, complete obstruction of nasopharynx or of nasal passages bilaterally, with permanent tracheostomy or stoma, dyspnea caused by the air passage defect produced only by prolonged exertion or intensive effort.

(5) Objective findings of one or more of the following air passage defects: Partial obstruction of oropharynx, laryngopharynx, larynx, trachea, bronchi, with or without permanent tracheostomy or stoma if dyspnea is produced by moderate exertion.

(6) Objective findings of one or more of the following air passage defects: Partial obstruction of oropharynx, laryngopharynx, larynx, trachea, bronchi, with or without permanent tracheostomy or stoma if dyspnea is produced by mild exertion.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-20-400, filed 8/2/83; Order 74-32, § 296-20-400, filed 6/21/74, effective 10/1/74.]

WAC 296-20-410 Nasal septum impairments. (1) Rules for evaluation of permanent air passage impairments due to nasal septum perforation.

(a) These categories, if appropriate, are to be used in addition to the categories of permanent air passage impairment.

(b) Categories 1 and 2 include complaints of whatever degree.

[Order 74-32, § 296-20-410, filed 6/21/74, effective 10/1/74.]

WAC 296-20-420 Categories of permanent air passage impairment due to nasal septum perforations. (1) Perforation or perforations posterior to the cartilaginous septum.

(2) Perforation or perforations through or anterior to the cartilaginous septum.

[Order 74-32, § 296-20-420, filed 6/21/74, effective 10/1/74.]

WAC 296-20-430 Loss of taste and smell. (1) Rule for evaluation of permanent loss of taste and smell.

(a) If the person being examined can detect any odor or taste, even though it cannot be named, no category shall be assigned.

[Order 74-32, § 296-20-430, filed 6/21/74, effective 10/1/74.]

WAC 296-20-440 Categories of permanent loss of taste and smell. (1) Loss of sense of taste.

(2) Loss of sense of smell.

[Order 74-32, § 296-20-440, filed 6/21/74, effective 10/1/74.]

WAC 296-20-450 Speech impairments. (1) Rules for evaluation of permanent speech impairments.

(a) The physician making an examination for evaluation of permanent speech impairment should have normal hearing and the examination should be conducted in a reasonably quiet office which approximates the noise level conditions of everyday living.

(b) Selection of the appropriate category of permanent speech impairment shall be based on direct observation of the speech of the person being examined, including, but not limited to: Response to interview, oral reading, and counting aloud. The observation shall be made with the physician about eight feet from the person being examined both when he faces the physician and with his back to the physician.

[Order 74-32, § 296-20-450, filed 6/21/74, effective 10/1/74.]

WAC 296-20-460 Categories of permanent speech impairments. (1) No objective findings of significant speech impairment are present. Subjective complaints may be present or absent.

(2) Can produce speech of sufficient audibility, intelligibility and functional efficiency for most everyday needs, although this may require effort and occasionally exceed capacity; listeners may occasionally ask for repetition and it may be difficult to produce some elements of speech, and there may be slow speaking and hesitation.

(3) Can produce speech of sufficient audibility, intelligibility and functional efficiency for many everyday needs, is usually heard under average conditions but may have difficulty in automobiles, busses, trains, or enclosed areas; can give name, address, and be understood by a stranger, but may have numerous inaccuracies and have difficulty articulating; speech may be interrupted, hesitant or slow.

(4) Can produce speech of sufficient audibility, intelligibility and functional efficiency for some everyday needs such as close conversation, conversation with family and friends, but has considerable difficulty in noisy places; voice tires rapidly and tends to become inaudible in a few seconds, strangers may find patient difficult to understand; patient may be asked to repeat often, and often can only sustain consecutive speech for brief periods.

(5) Can produce speech of sufficient audibility, intelligibility and functional efficiency for few everyday needs; can barely be heard by a close listener or over the telephone; may be able to whisper audibly but has no voice; can produce some speech elements; may have approximation of a few words such as names of family members which are, however, unintelligible out of context; cannot maintain uninterrupted speech flow, speech is labored, and its rate is impractically slow.

(6) Is unable to produce speech of sufficient audibility, intelligibility and functional efficiency for any everyday needs.

[Order 74-32, § 296-20-460, filed 6/21/74, effective 10/1/74.]

WAC 296-20-470 Skin impairments. (1) Rules for evaluation of permanent skin impairments.

(a) Evaluation of permanent impairment of the skin shall be based upon actual loss of function and cosmetic factors shall not be considered.

(b) Categories 2, 3, 4, 5 and 6 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-470, filed 6/21/74, effective 10/1/74.]

WAC 296-20-480 Categories of permanent skin impairments. (1) Objective findings of skin disorder may be present or absent but there is no or minimal limitation in daily activities. Subjective complaints may be present or absent.

(2) Objective findings of skin disorder are present and there is discomfort and minimal limitation in the performance of daily activities.

(3) Objective findings of skin disorder are present and there is limitation in some daily activities, including avoidance of and protective measures against certain chemical or physical agents. Intermittent symptomatic treatment is required.

(4) Objective findings of skin disorder are present and there is limitation in many daily activities, including avoidance of and protective measures against certain chemical or physical agents. Continuous symptomatic treatment is required.

(5) Objective findings of skin disorder are present and there is limitation in most daily activities, including avoidance of and protective measures against certain chemical or physical agents. Continuous symptomatic treatment is required.

(6) Objective findings of skin disorder are present and there is limitation in all daily activities, including avoidance of and protective measures against certain chemical or physical agents. Continuous symptomatic treatment is required.

[Order 74-32, § 296-20-480, filed 6/21/74, effective 10/1/74.]

WAC 296-20-490 Impairment of the upper digestive tract, stomach, esophagus or pancreas. (1) Rule for evaluation of permanent impairments of the upper digestive tract, stomach, esophagus or pancreas.

(a) Categories 2, 3, 4 and 5 include complaints of whatever degree.

[Order 74-32, § 296-20-490, filed 6/21/74, effective 10/1/74.]

WAC 296-20-500 Categories of permanent impairments of the upper digestive tract, stomach, esophagus or pancreas. (1) No objective findings are present. Subjective complaints may be present or absent.

(2) There are objective findings of digestive tract impairment but no anatomic loss or alteration, continuous treatment is not required and weight can be maintained at the medically appropriate level.

(3) There are objective findings of digestive tract impairment, or there is anatomic loss or alteration. Dietary restrictions and drugs control symptoms, signs and/or nutritional state, and weight can be maintained at at least 90 percent of medically appropriate level.

(4) There are objective findings of digestive tract impairment, or there is anatomic loss or alteration. Dietary restrictions and drugs do not completely control symptoms, signs and/or nutritional state. Weight can be maintained at 80-90 percent of medically appropriate level.

(5) There are objective findings of digestive tract impairment, or there is anatomic loss or alteration. Dietary restrictions and drugs do not control symptoms, signs and/or nutritional state. Weight cannot be maintained as high as 80 percent of medically appropriate level.

[Order 74-32, § 296-20-500, filed 6/21/74, effective 10/1/74.]

WAC 296-20-510 Lower digestive tract impairments. (1) Rule for evaluation of permanent lower digestive tract impairments.

(a) Categories 2, 3 and 4 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-510, filed 6/21/74, effective 10/1/74.]

WAC 296-20-520 Categories of permanent lower digestive tract impairments. (1) No objective findings of impairment of lower digestive tract. Subjective complaints may be present or absent.

(2) The objective findings of lower digestive tract impairment are infrequent and of brief duration, and there is limitation of activities, but special diet or medication is not required, and there are neither systemic manifestations nor impairment of nutrition.

(3) There are objective findings of lower digestive tract impairment or anatomic loss or alteration and mild gastrointestinal symptoms with occasional disturbance of bowel function, accompanied by moderate pain and minimal restriction of diet; mild symptomatic therapy may be necessary; no impairment of nutrition.

(4) There are moderate to marked intermittent bowel disturbances with continual or periodic pain; there is restriction of activities and diet during exacerbations, there are constitutional manifestations such as fever, anemia or weight loss. Includes but is not limited to any permanent ileostomy or colostomy.

[Order 74-32, § 296-20-520, filed 6/21/74, effective 10/1/74.]

WAC 296-20-530 Impairment of anal function. (1) Rule for evaluation of permanent impairment of anal function.

(a) Categories 2, 3 and 4 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-530, filed 6/21/74, effective 10/1/74.]

WAC 296-20-540 Categories of permanent impairments of anal function. (1) No objective findings of impairment of anal function. Subjective complaints may be present or absent.

(2) There are objective findings of mild organic disease, anatomic loss or alteration with loss of anal function and mild incontinence involving gas and/or liquid stool.

(3) There are objective findings of moderate anal disease, anatomic loss or alteration with loss of anal function and moderate incontinence requiring continual care.

(4) There are objective findings of marked anal disease, anatomic loss, alteration and/or complete fecal incontinence.

[Order 74-32, § 296-20-540, filed 6/21/74, effective 10/1/74.]

WAC 296-20-550 Liver and biliary tract impairments. (1) Rule for evaluation of permanent liver and biliary tract impairments.

(a) Categories 2, 3, 4 and 5 include complaints of whatever degree.

[Order 74-32, § 296-20-550, filed 6/21/74, effective 10/1/74.]

WAC 296-20-560 Categories of permanent liver and biliary tract impairments. (1) There are no objective findings of impairment of the liver or biliary tract. Subjective complaints may be present or absent.

(2) There are objective findings on biochemical studies of minimal impairment of liver function with or without symptoms, or there are occasional episodes of loss of function of the biliary tract, but nutrition and strength are good.

(3) There are objective findings on biochemical studies of mild impairment of liver function without symptoms, or there is recurrent biliary tract impairment, but no ascites, jaundice or bleeding esophageal varices and nutrition and strength are good.

(4) There are objective findings on biochemical studies of moderate impairment of liver function with jaundice, ascites, bleeding esophageal varices or gastric varices and nutrition and strength may be affected; or there is irreparable obstruction of the common bile duct with recurrent cholangitis.

(5) There are objective findings on biochemical studies of marked impairment of liver function and nutritional state is poor; or persistent jaundice, bleeding esophageal varices or gastric varices.

[Order 74-32, § 296-20-560, filed 6/21/74, effective 10/1/74.]

WAC 296-20-570 Impairments of the spleen, loss of one kidney, and surgical removal of the bladder with urinary diversion. (1) Rule for evaluation of permanent impairments of the spleen, loss of one kidney, and surgical removal of bladder with urinary diversion.

(a) Categories 1, 2 and 3 include complaints of whatever degree.

[Order 74-32, § 296-20-570, filed 6/21/74, effective 10/1/74.]

WAC 296-20-580 Categories of permanent impairment of the spleen, loss of one kidney, and surgical removal of bladder with urinary diversion. (1) Loss of spleen by splenectomy after age eight.

(2) Loss of one kidney by surgery or complete loss of function of one kidney.

(3) Surgical removal of bladder with urinary diversion.

[Order 74-32, § 296-20-580, filed 6/21/74, effective 10/1/74.]

WAC 296-20-590 Impairment of upper urinary tract. (1) Rule for evaluation of permanent impairment of upper urinary tract.

(a) Categories 2, 3, 4 and 5 include the presence of complaints of whatever nature.

[Order 74-32, § 296-20-590, filed 6/21/74, effective 10/1/74.]

WAC 296-20-600 Categories of permanent impairments of upper urinary tract. (1) No objective findings of impairment of upper urinary tract. Subjective complaints may be present or absent.

(2) Loss of upper urinary function as evidenced by creatinine clearance of 75 to 90 liters/24 hr. (52 to 62.5 ml/min) and PSP excretion of 15 percent to 20 percent in 15 minutes; or if there are intermittent objective findings of upper urinary tract disease or dysfunction not requiring continuous treatment or surveillance.

(3) Loss of upper urinary tract function as evidenced by creatinine clearance of 60 to 75 liters/24 hr. (42 to 52 ml/min) and PSP excretion of 10 percent to 15 percent in 15 minutes; or although function is greater than these levels, there are objective findings of upper urinary tract disease or dysfunction requiring continuous surveillance and frequent symptomatic treatment.

(4) Loss of upper urinary tract function as evidenced by creatinine clearance of 40 to 60 liters/24 hr. (28 to 42 ml/min) and PSP excretion of 5 percent to 10 percent in 15 minutes; or although function is greater than these levels, there are objective findings of mild or moderate upper urinary tract disease or dysfunction which can be only partially controlled.

(5) Loss of upper urinary tract function as evidenced by creatinine clearance below 40 liters/24 hr. (28 ml/min) and PSP excretion below 5 percent in 15 minutes; or although function is greater than these levels there are objective findings of severe upper urinary tract disease or dysfunction which persists despite continuous treatment.

[Order 74-32, § 296-20-600, filed 6/21/74, effective 10/1/74.]

WAC 296-20-610 Additional permanent impairments of upper urinary tract due to surgical diversion. (1) Rule for evaluation of additional permanent impairments of upper urinary tract due to surgical diversion.

(a) These categories include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-610, filed 6/21/74, effective 10/1/74.]

WAC 296-20-620 Categories of additional permanent impairments of upper urinary tract due to surgical diversion. (1) Uretero-intestinal diversion or cutaneous ureterostomy without intubation.

(2) Nephrostomy or intubated ureterostomy.

[Order 74-32, § 296-20-620, filed 6/21/74, effective 10/1/74.]

WAC 296-20-630 Impairment of bladder function. (1) Rules for evaluation of permanent impairment of bladder function.

(a) In making examinations for evaluation of impairments of bladder function, physicians shall use objective techniques including, but not limited to, cystoscopy, cystography, voiding cystourethrography, cystometry, uroflometry, urinalysis and urine culture.

(b) Categories 2, 3, 4 and 5 include the presence of complaints of whatever degree.

[Order 74-32, § 296-20-630, filed 6/21/74, effective 10/1/74.]

WAC 296-20-640 Categories of permanent impairments of bladder function. (1) No objective findings are present. Subjective complaints may be present or absent.

(2) Objective findings of bladder dysfunction, intermittent treatment required, but there is no dysfunction between such intermittent attacks.

(3) Objective findings of bladder dysfunction, continuous treatment required or there is good bladder reflex activity but no voluntary control.

(4) Objective findings of bladder dysfunction, there is poor reflex activity with intermittent dribbling and no voluntary control.

(5) Objective findings of bladder dysfunction, there is no reflex or voluntary control and there is continuous dribbling.

[Order 74-32, § 296-20-640, filed 6/21/74, effective 10/1/74.]

WAC 296-20-650 Anatomical or functional loss of testes. (1) Rule for evaluation of permanent anatomical or functional loss of testes.

(a) Categories 2, 3, 4 and 5 include the presence of whatever complaints.

[Order 74-32, § 296-20-650, filed 6/21/74, effective 10/1/74.]

WAC 296-20-660 Categories of permanent anatomical or functional loss of testes. (1) No objective findings. Subjective complaints may be present or absent.

(2) Anatomical or functional loss of one testicle.

(3) Anatomical or functional loss of both testes after the age of 65.

(4) Anatomical or functional loss of both testes between the ages of 40 and 65.

(5) Anatomical or functional loss of both testes before the age of 40.

[Order 74-32, § 296-20-660, filed 6/21/74, effective 10/1/74.]

WAC 296-20-670 Disability. (1) The rules for determining disability are as follows:

(a) The determination of the percentage of disability in terms of total bodily impairment for any category is solely an administrative function and shall be done only in accordance

with the tables of disability listed in WAC 296-20-680 and 296-20-690, or as otherwise provided in this chapter.

(b) When the industrial injury or occupational disease has caused further impairment to a bodily area where permanent bodily impairment existed prior to the industrial injury or occupational disease, the department shall award the percentage difference between the disability for the category of impairment which preexisted the industrial injury or occupational disease and the disability for the category of permanent impairment existing after the industrial injury or occupational disease.

(c) Neither the combined values chart provided in the guides to the evaluation of permanent impairment nor any other formula for the combination of the disabilities to different body areas or organ systems used in any other nationally recognized guide for determining bodily impairments shall be applied in computing the amount of disabilities to be awarded under these rules.

(d) Except as otherwise specifically provided, a percentage of total bodily impairment in one body area or system shall not be added to or combined with a percentage of total bodily impairment from another body area or system; the percentages for each body area or system shall be stated separately.

[Order 74-32, § 296-20-670, filed 6/21/74, effective 10/1/74.]

WAC 296-20-680 Classification of disabilities in proportion to total bodily impairment.

(1) Permanent Cervical and Cervico-Dorsal Impairments

Category	1	0%
	2	10%
	3	20%
	4	25%
	5	35%

(2) Permanent Dorsal Region Impairments

Category	1	0%
	2	10%
	3	20%

(3) Permanent Dorso-Lumbar and Lumbosacral Impairments

Category	1	0%
	2	5%
	3	10%
	4	15%
	5	25%
	6	40%
	7	60%
	8	75%

(4) Permanent Impairments of the Pelvis

Category	1	0%
	2	2%
	3	5%
	4	5%
	5	5%
	6	5%
	7	10%
	8	10%
	9	15%

(5) Permanent Convulsive Neurologic Impairments

Category	1	0%
	2	10%
	3	35%
	4	60%

(6) Permanent Mental Health Impairments

Category	1	0%
	2	10%
	3	25%
	4	45%
	5	70%

(7) Permanent Cardiac Impairments

Category	1	0%
	2	10%
	3	20%
	4	35%
	5	50%
	6	65%

(8) Permanent Respiratory Impairments

Category	1	0%
	2	15%
	3	25%
	4	40%
	5	65%
	6	75%

(9) Permanent Variable Respiratory Impairment with Normal Baseline Spirometry

Category	1	0%
	2	5%
	3	10%
	4	15%

(10) Permanent Air Passage Impairments

Category	1	0%
	2	5%
	3	15%
	4	25%
	5	35%
	6	60%

(11) Permanent Air Passage Impairments Due to Nasal Septum Perforations

Category	1	0%
	2	2%

(12) Permanent Loss of Taste and Smell

Category	1	3%
	2	3%

(13) Permanent Speech Impairments

Category	1	0%
	2	5%
	3	10%
	4	20%
	5	30%
	6	35%

(14) Permanent Skin Impairments

Category	1	0%
	2	5%
	3	10%
	4	25%
	5	40%
	6	60%

(15) Permanent Impairments of Upper Digestive Tract, Stomach, Esophagus or Pancreas

Category	1	0%
	2	5%
	3	10%
	4	35%
	5	60%

(16) Permanent Impairments of Lower Digestive Tract

Category	1	0%
	2	5%
	3	15%
	4	30%

(17) Permanent Impairments of Anal Function

Category	1	0%
	2	5%
	3	15%
	4	25%

(18) Permanent Impairments of Liver and Biliary Tract

Category	1	0%
	2	5%
	3	20%
	4	40%
	5	60%

(19) Permanent Impairments of the Spleen, Loss of One Kidney, and Surgical Removal of Bladder with Urinary Diversion

Category	1	15%
	2	10%
	3	20%

(20) Permanent Impairments of Upper Urinary Tract

Category	1	0%
	2	10%
	3	25%
	4	45%
	5	65%

(21) Additional Permanent Impairments of Upper Urinary Tract Due to Surgical Diversion

Category	1	10%
	2	15%

(22) Permanent Impairments of Bladder Function

Category	1	0%
	2	10%
	3	20%
	4	30%
	5	50%

(23) Permanent Anatomical or Functional Loss of Testes

Category	1	0%
	2	5%
	3	10%
	4	25%
	5	35%

[Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.32.080(2). 94-03-073, § 296-20-680, filed 1/17/94, effective 3/1/94. Statutory Authority: Chapters 34.04 [34.05], 51.04, 51.32 and 51.36 RCW. 90-04-007, § 296-20-680, filed 1/26/90, effective 2/26/90. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-20-680, filed 12/23/80, effective 3/1/81; Order 74-32, § 296-20-680, filed 6/21/74, effective 10/1/74.]

WAC 296-20-690 Permanent impairments of the cervico-dorsal (WAC 296-20-240) and lumbosacral regions (WAC 296-20-280) jointly.

(1) Permanent Cervical and Cervicodorsal Impairment Category 1 Plus Permanent Dorsolumbar and Lumbosacral Impairment

Category	1	0%
	2	5%
	3	10%
	4	15%
	5	25%
	6	40%
	7	60%
	8	75%

(2) Cervical-Cervicodorsal Category 2 Plus Dorsolumbar-Lumbosacral

Category	1	10%
	2	15%
	3	20%
	4	25%
	5	35%
	6	50%
	7	70%
	8	75%

(3) Cervical Cervicodorsal Category 3 Plus Dorsolumbar-Lumbosacral

Category	1	20%
	2	25%
	3	30%
	4	35%
	5	45%
	6	55%
	7	70%

	8	75%

(4) Cervical-Cervicodorsal Category 4 Plus Dorsolumbar-Lumbosacral

Category	1	25%
	2	30%
	3	35%
	4	40%
	5	45%
	6	55%
	7	70%
	8	80%

(5) Cervical-Cervicodorsal Category 5 Plus Dorsolumbar-Lumbosacral

Category	1	35%
	2	40%
	3	45%
	4	50%
	5	55%
	6	65%
	7	70%
	8	80%

[Order 74-32, § 296-20-690, filed 6/21/74, effective 10/1/74.]

Chapter 296-21 WAC

REIMBURSEMENT POLICIES: PSYCHIATRIC SERVICES, BIOFEEDBACK, PHYSICAL MEDICINE

WAC

REIMBURSEMENT POLICIES: PSYCHIATRIC SERVICES, BIOFEEDBACK, PHYSICAL MEDICINE

296-21-270 Psychiatric services.
296-21-280 Biofeedback rules.
296-21-290 Physical medicine.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-21-010 General information and instructions. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-010, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), §296-21-010, filed 12/23/80, effective 3/1/81; Order 74-7, §296-21-010, filed 1/30/74; Order 70-12, §296-21-010, filed 12/1/70, effective 1/1/71; Order 68-7, §296-21-010, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-011 Footnotes. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-21-011, filed 8/16/91, effective 9/30/91; 87-03-005 (Order 86-47), § 296-21-011, filed 1/8/87; 86-06-032 (Order 86-19), § 296-21-011, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-011, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-011, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-011, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-011, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-013 Special services and billing procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-013, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-21-013, filed 8/10/89, effective 9/10/89; 87-24-050 (Order 87-23), § 296-21-013, filed 11/30/87, effective 1/1/88; 87-16-004 (Order 87-18), § 296-21-013, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-013, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-013, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-013, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-013, filed 12/23/80, effective 3/1/81; Order 74-39, § 296-21-013, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-21-013, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-014 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-014, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-014, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-21-014, filed 11/24/76, effective 1/1/77.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-01401 Special report. [Order 76-34, § 296-21-01401, filed 11/24/76, effective 1/1/77.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-015 Office visits. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-015, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-21-015, filed 7/23/87. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-015, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-015, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-21-015, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-21-015, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-21-015, filed 1/30/74; Order 71-6, § 296-21-015, filed 6/1/71; Order 68-7, § 296-21-015, filed 11/27/68, effective 1/1/69.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-020 Home or nursing (convalescent) home visits. [Order 68-7, § 296-21-020, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-21-025 Hospital visits. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-21-025, filed 7/23/87. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-025, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-025, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-21-025, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-21-025, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-21-025, filed 1/30/74; Order 70-12, § 296-21-025, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-21-025, filed 11/27/68, effective 1/1/69.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-026 Extended care facility, convalescent hospital, and nursing home. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-21-026, filed 7/23/87; Order 76-34, § 296-21-026, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-21-026, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-21-026, filed 1/30/74.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-027 Emergency room service. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-027, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-21-027, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-027, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-027, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-027, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-21-027, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-21-027, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-21-027, filed 1/30/74.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-030 Consultations. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-030, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-21-030, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-030, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-030, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-030, filed 12/23/80, effec-

tive 3/1/81; Order 74-7, § 296-21-030, filed 1/30/74; Order 70-12, § 296-21-030, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-21-030, filed 11/27/68, effective 1/1/69.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-035 Independent medical examinations. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-001 (Order 89-01), § 296-21-035, filed 3/23/89, effective 9/1/89; 88-14-012 (Order 88-09), § 296-21-035, filed 6/24/88; 87-16-004 (Order 87-18), § 296-21-035, filed 7/23/87; Order 74-7, § 296-21-035, filed 1/30/74; Order 68-7, § 296-21-035, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-037 Examination reports. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-001 (Order 89-01), § 296-21-037, filed 3/23/89, effective 9/1/89.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-040 Independent medical examinations examiner. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-21-040, filed 8/16/91, effective 9/30/91; 89-08-001 (Order 89-01), § 296-21-040, filed 3/23/89, effective 9/1/89; 87-16-004 (Order 87-18), § 296-21-040, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-040, filed 2/28/86, effective 4/1/86; Order 75-39, § 296-21-040, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-21-040, filed 1/30/74; Order 68-7, § 296-21-040, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-045 Independent medical examinations—Two or more examiners. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-001 (Order 89-01), § 296-21-045, filed 3/23/89, effective 9/1/89; 87-16-004 (Order 87-18), § 296-21-045, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-045, filed 2/28/86, effective 4/1/86; Order 76-34, § 296-21-045, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-21-045, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-21-045, filed 1/30/74; Order 71-6, § 296-21-045, filed 6/1/71; Order 68-7, § 296-21-045, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-046 Immunization injections. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-046, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-21-046, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-046, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-046, filed 8/2/83.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-047 Therapeutic injections. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-047, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-21-047, filed 8/10/89, effective 9/10/89; 83-16-066 (Order 83-23), § 296-21-047, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-047, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-047, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-047, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-050 Psychiatric services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-050, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-21-050, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-050, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-050, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-050, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-050, filed 1/30/74; Order 68-7, § 296-21-050, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-0501 Biofeedback rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-0501, filed 3/8/91, effective 5/1/91; 86-20-074 (Order 86-36), § 296-21-0501, filed 10/1/86, effective 11/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-0501, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-0501, filed 12/23/80, effective 3/1/81.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-0502 Biofeedback. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-21-0502, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-21-0502, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-0502, filed 12/23/80, effective 3/1/81.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-055 Other services. [Order 70-12, § 296-21-055, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-21-055, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-21-057 Monitoring services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-057, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-21-057, filed 7/23/87; 83-16-066 (Order 83-23), § 296-21-057, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-057, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-057, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-057, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-060 Specific diagnostic services. [Order 68-7, § 296-21-060, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-21-062 Eye. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-062, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-062, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-062, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-062, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-062, filed 1/30/74. Formerly WAC 296-22-400 (part).] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-064 Ear. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-064, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-064, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-064, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-065 Nonsurgical operating room services. [Order 68-7, § 296-21-065, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-21-066 Cardiovascular. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-066, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-21-066, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-21-066, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-066, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-066, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-066, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-066, filed 1/30/74. Formerly WAC 296-21-060 (part).] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-070 Pulmonary. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-070, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-070, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-070, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-070, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-070, filed 1/30/74; Order 68-7, § 296-21-070, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-075 Allergy and clinical immunology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-075, filed 3/8/91, effective 5/1/91; 89-17-039 (Order

89-09), § 296-21-075, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-21-075, filed 7/23/87; 86-06-032 (Order 86-19), § 296-21-075, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-075, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-075, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-075, filed 1/30/74; Order 68-7, § 296-21-075, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-080 Neurology and neuromuscular. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-080, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-080, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-080, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-080, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-080, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-080, filed 1/30/74; Order 68-7, § 296-21-080, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-085 Specific therapeutic procedures—Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-085, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-085, filed 2/28/86, effective 4/1/86; Order 75-39, § 296-21-085, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-21-085, filed 1/30/74; Order 68-7, § 296-21-085, filed 11/27/68, effective 1/1/69.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-086 Chemotherapy injections. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-21-086, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-21-086, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-086, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-086, filed 8/2/83.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-090 Special dermatological procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-21-090, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-21-090, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-21-090, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-21-090, filed 1/30/74; Order 68-7, § 296-21-090, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-095 Physical medicine. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-21-095, filed 8/16/91, effective 9/30/91; 86-06-032 (Order 86-19), § 296-21-095, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-095, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-095, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-21-095, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-21-095, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-21-095, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-21-095, filed 1/30/74; Order 70-12, § 296-21-095, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-21-095, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-125 Anesthesia. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-21-125, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-21-125, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-125, filed 11/30/81, effective 1/1/82; Order 74-7, § 296-21-125, filed 1/30/74; Order 68-7, § 296-21-125, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-128 Special services and billing procedures—Anesthesia. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 88-04-052 (Order 87-29), § 296-21-128, filed 1/29/88; 86-06-032 (Order 86-19), § 296-21-128, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-21-128, filed 11/30/81, effective 1/1/82; Order 74-7, § 296-21-128, filed 1/30/74.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-130 Calculation of total anesthesia values. [Order 74-7, § 296-21-130, filed 1/30/74; Order 70-12, § 296-21-130, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-21-130, filed 11/27/68, effective 1/1/69.] Repealed by 92-24-066, filed 12/1/92, effective 1/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-21-140 Guidelines. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-140, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-150 Office or other outpatient services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-150, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-160 Hospital inpatient services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-160, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-170 Consultations. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-170, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-180 Emergency department services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-180, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-190 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-190, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-200 Critical care services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-200, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-210 Nursing facility services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-210, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-230 Case management services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-21-230, filed 12/1/92, effective 1/1/93.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-240 General instructions. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-240, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-250 Bundled services and supplies. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-250, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-260 Global surgery policy. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-260, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-300 HCPCS codes. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-300, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-310 HCPCS billing modifiers. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-

21-310, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-21-320 Provider types and services not covered. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-320, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

SPECIFIC THERAPEUTIC PROCEDURES

WAC 296-21-270 Psychiatric services. The following rules supplements information contained in the fee schedules regarding coverage and reimbursement for psychiatric services.

Treatment of mental conditions to workers is to be goal directed, time limited, intensive, and limited to conditions caused or aggravated by the industrial condition. Psychiatric services to workers are limited to those provided by psychiatrists and licensed psychologists, and according to department policy. For purposes of this rule, the term "psychiatric" refers to treatment by psychologists as well as psychiatrists.

Initial evaluation, and subsequent treatment must be authorized by department staff, as outlined by department policy. The report of initial evaluation, including test results, and treatment plan are to be sent to the worker's attending provider, as well as the department. A copy of sixty-day narrative reports to the department is also to be sent to the attending provider.

All providers are bound by the medical aid rules in chapter 296-20 WAC. Reporting requirements are defined in chapter 296-20 WAC. In addition, the following are required: Testing results with scores, scales, and profiles; report of raw data sufficient to allow reassessment by a panel or independent medical examiner. Use of the current Diagnostic and Statistical Manual of the American Psychiatric Association axis format in the initial evaluation and sixty-day narrative reports, and explanation of the numerical scales are required.

A report to the department will contain, at least, the following elements:

Subjective complaints;

Objective observations;

Assessment of the worker's condition and goals accomplished; and

Plan of care.

The codes, reimbursement levels, and other policies for psychiatric services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-270, filed 8/1/93, effective 9/1/93.]

WAC 296-21-280 Biofeedback rules. Procedures listed in the fee schedules are for use by medical doctors, osteopathic physicians, licensed psychologists and other qualified providers as determined by department policy. All providers of biofeedback are bound by the medical aid rules and fee schedule for biofeedback services.

Administration of biofeedback treatment is limited to those practitioners who are certified by the Biofeedback Certification Institute of America or who meet the minimum education, experience, and training qualifications to be so certified. Those practitioners wishing to administer biofeedback treatment to workers, must submit a copy of their biofeedback certification or supply evidence of their qualifications to the department or self-insurer.

(1) The department will authorize biofeedback treatment for the following conditions when accepted under the industrial insurance claim:

(a) Idiopathic Raynaud's disease;

(b) Temporomandibular joint dysfunction;

(c) Myofascial pain dysfunction syndrome (MPD);

(d) Tension headaches;

(e) Migraine headaches;

(f) Tinnitus;

(g) Torticollis;

(h) Neuromuscular reeducation as result of neurological damage in CVA or spinal cord injury;

(i) Inflammatory and/or musculoskeletal disorders causally related to the accepted condition.

(2) Twelve biofeedback treatments in a ninety-day period will be authorized for the above conditions when the following is presented:

(a) An evaluation report documenting:

(i) The basis for the claimant's condition;

(ii) The condition's relationship to the industrial injury;

(iii) An evaluation of the claimant's current functional measurable modalities (i.e., range of motion, up time, walking tolerance, medication intake, etc.);

(iv) An outline of the proposed treatment program;

(v) An outline of the expected restoration goals.

(b) No further biofeedback treatments will be authorized or paid for without substantiation of evidence of improvement in measurable, functional modalities (i.e., range of motion, up time, walking tolerance, medication intake, etc.). Only one additional treatment block of twelve treatments per ninety days will be authorized. Requests for biofeedback treatment beyond twenty-four treatments or one hundred eighty days will be granted only after file review by and on the advice of the department's medical consultant.

(c) In addition to treatment, pretreatment and periodic evaluation will be authorized. Follow-up evaluation can be authorized at one, three, six, and twelve months posttreatment.

(d) At the department's option, a concurring opinion may be required regarding relationship of the condition to the industrial injury and/or need for biofeedback treatment.

The codes, reimbursement levels, and other policies for biofeedback services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-280, filed 8/1/93, effective 9/1/93.]

WAC 296-21-290 Physical medicine. The department or self-insurer will authorize and pay for physical medicine services only when the services are under the direct, continuous supervision of a physician who is "board qualified" in the field of physical medicine and rehabilitation, (except for subsections (1) and (2) of this section). The services must be carried out by the physician or registered physical therapist or a physical therapist assistant serving under the direction of a registered physical therapist, by whom he is employed.

The department or self-insurer will allow other licensed physicians to provide physical medicine modalities in the following situations:

(1) The primary attending physician may administer physical therapist modalities as listed under 97010 - 97039 and/or procedures as listed under 97110 - 97145 in the office. No more than six such visits will be authorized and paid to the attending physician. If the worker requires treatment beyond six visits, he/she must be referred to a registered physical therapist or a physiatrist for such treatment. The attending physician can bill an office visit in addition to the physical therapy visit for the same day if indicated. Refer to the department billing instructions regarding how to bill the physical therapy portion of the visit.

(2) In remote areas, where no registered physical therapist or physical therapist assistant is available, treatment by the attending physician with modalities listed under 97110 - 97145 may be billed under 1044M.

The codes, reimbursement levels, and other policies for physical medicine services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-21-290, filed 8/1/93, effective 9/1/93.]

Chapter 296-23 WAC

RADIOLOGY, RADIATION THERAPY, NUCLEAR MEDICINE, PATHOLOGY, HOSPITAL, CHIROPRACTIC, PHYSICAL THERAPY, DRUGLESS THERAPEUTICS AND NURSING—DRUGLESS THERAPEUTICS, ETC.

WAC

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296-23-26505 Is there a fee schedule for independent medical examinations?
296-23-26506 Can a worker file a complaint about an independent medical examiner's conduct?
296-23-267 When may attending doctors perform impairment rating examinations?
296-23-270 Independent medical examinations two or more examiners.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-23-010 General information—Radiology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-010, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-010, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-010, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-010, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-010, filed 1/30/74; Order 71-6, § 296-23-010, filed 6/1/71; Order 70-12, § 296-23-010, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-010, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01001 Injection procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-01001, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-01001, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-01001, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01002 Custody of x-rays. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-01002, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-01002, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-23-01002, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-01002, filed 12/1/77; Emergency Order 77-16, § 296-23-01002, filed 9/6/77; Order 76-34, § 296-23-01002, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01003 Identification of x-rays. [Order 76-34, § 296-23-01003, filed 11/24/76, effective 1/1/77.] Repealed by Order 77-27, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, filed 12/1/77; Emergency Order 77-16, filed 9/6/77.

296-23-01004 Billing procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-01004, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-01004, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-23-01004, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-01004, filed 12/1/77; Emergency Order 77-16, § 296-23-01004, filed 9/6/77; Order 76-34, § 296-23-01004, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01005 Duplication of x-rays and extra views. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-01005, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-01005, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01006 Radiology, radiation therapy, nuclear medicine and modifiers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23-01006, filed 8/16/91, effective 9/30/91; 89-17-039 (Order 89-09), § 296-23-01006, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23-01006, filed 1/8/87; 86-06-032 (Order 86-19), § 296-23-01006, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-01006, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-01006, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-01006, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-01006, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01007 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-01007, filed 8/10/89, effective 9/10/89; 83-16-066 (Order 83-23), § 296-23-01007, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-01007, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-01007, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-01008 Special report. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-01008, filed 12/1/92, effective 1/1/93; Order 76-34, § 296-23-01008, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-013 Footnotes. [Order 74-7, § 296-23-013, filed 1/30/74.] Repealed by 81-24-041 (Order 81-28), filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-015 Head and neck. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-015, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-015, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-015, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-015, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-015, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-015, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-015, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-015, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-015, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-061 (codified as WAC 296-23-015), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-015, filed 1/30/74; Order 68-7, § 296-23-015, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-020 Chest. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-020, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-020, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-020, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-020, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-020, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-020, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-020, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-020, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-020, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-064 (codified as WAC 296-23-020), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-020, filed 1/30/74; Order 68-7, § 296-23-020, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-025 Spine and pelvis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-025, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-025, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-025, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-025, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-025, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-025, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-025, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-025, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-025, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-067 (codified as WAC 296-23-025), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-025, filed 1/30/74; Order 68-7, § 296-23-025, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-030 Upper extremities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-030, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-030, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-030, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-030, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-030, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-030, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-030, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-030, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-071 (codified as WAC 296-23-030), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-030, filed 1/30/74; Order 68-7, § 296-23-030, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-035 Lower extremities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-035, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-035, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-035, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-035, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-035, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-035, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-035, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-035, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-035, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-074 (codified as WAC 296-23-035), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-035, filed 1/30/74; Order 68-7, § 296-23-035, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-040 Abdomen. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-040, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-040, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-040, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-040, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-040, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-040, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-040, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-040, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-040, filed 11/24/76, effective 1/1/77; Order 74-39, § 296-23-077 (codified as WAC 296-23-040), filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-040, filed 1/30/74; Order 68-7, § 296-23-040, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-045 Gastrointestinal tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-045, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-045, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-045, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-045, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-045, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-045, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-045, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-045, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-045,

filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-045, filed 1/30/74; Order 68-7, § 296-23-045, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-050 Urinary tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-050, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-050, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-050, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-050, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-050, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-050, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-050, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-050, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-050, filed 1/30/74; Order 68-7, § 296-23-050, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-055 Female genital tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-055, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-055, filed 3/8/91, effective 5/1/91; 87-16-004 (Order 87-18), § 296-23-055, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-055, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-055, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-055, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-055, filed 1/30/74; Order 68-7, § 296-23-055, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-060, 296-23-070, 296-23-075, 296-23-085, 296-23-090, 296-23-095, 296-23-100, 296-23-205, 296-23-210, 296-23-215, 296-23-220, 296-23-225, 296-23-230, 296-23-235, 296-23-240 and 296-23-245. [Order 68-7, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-7, filed 1/30/74.

296-23-065 Vascular system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-065, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-065, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-065, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-065, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-065, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-065, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-065, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-065, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-065, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-065, filed 1/30/74; Order 68-7, § 296-23-065, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-079 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-079, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-079, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-079, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-079, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-079, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-079, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-079, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-079, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-079, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-079, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07901 Diagnostic ultrasound. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07901, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07901, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07902 Head and neck. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07902, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07902, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07902, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07902, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07902, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-07902, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07902, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07902, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07903 Heart and chest. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07903, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07903, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07903, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07903, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07903, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-07903, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07903, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07903, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07904 Thorax. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-23-07904, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07904, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07904, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07904, filed 11/28/75, effective 1/1/76.] Repealed by 89-17-039 (Order 89-09), filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-07905 Abdomen and retroperitoneum. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07905, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07905, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07905, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07905, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07905, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07905, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07905, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07906 Pelvis, genitalia, and extremities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07906, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07906, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07906, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07906, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07906, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-07906, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-07906, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-07906, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07906, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07907 Vascular studies. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07907, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07907, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07907, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07907, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-07907, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-07907, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07907, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-

07907, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-07908 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-07908, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-07908, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-07908, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-07908, filed 7/23/87. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-07908, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-07908, filed 11/28/75, effective 1/1/76.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-080 Therapeutic radiology—General information and instructions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-080, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-080, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-080, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-080, filed 7/23/87; 83-16-066 (Order 83-23), § 296-23-080, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-080, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-080, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-080, filed 1/30/74; Order 68-7, § 296-23-080, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-105 Teletherapy. [Order 74-7, § 296-23-105, filed 1/30/74. Formerly WAC 296-23-085.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-110 Brachytherapy. [Order 74-7, § 296-23-110, filed 1/30/74. Formerly WAC 296-23-090.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-115 Special adjunctive services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-23-115, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-115, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-115, filed 1/30/74.] Repealed by 87-16-004 (Order 87-18), filed 7/23/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-120 Nuclear medicine—General information and instructions. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-120, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-120, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-125 Diagnostic. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-125, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-125, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-125, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-125, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-125, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-125, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-125, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-125, filed 1/30/74. Formerly WAC 296-23-100.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-130 Therapeutic. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-130, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-130, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-130, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-130, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-130, filed 1/30/74. Formerly WAC 296-23-095.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-150 Low osmolar contrast media. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-150, filed 8/1/93, effective 9/1/93.] Repealed by 94-14-044, filed 6/29/94, effective 7/30/94. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-190 General instructions—Chiropractic. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-190, filed 8/1/93, effective 9/1/93.] Repealed by 97-24-044, filed 11/26/97, effective 1/1/98. Statutory Authority: RCW 51.04.020, 51.04.030, 51.36.080 and 51.36.110.

296-23-200 Pathology general information and instruction. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-200, filed 8/10/89, effective 9/10/89. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-200, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-200, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-200, filed 1/30/74; Order 70-12, § 296-23-200, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-200, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-201 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-201, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-201, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-201, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-20101 Special report. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-20101, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-20101, filed 11/24/76, effective 1/1/77.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-20102 Pathology modifier. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23-20102, filed 8/16/91, effective 9/30/91; 89-17-039 (Order 89-09), § 296-23-20102, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23-20102, filed 1/8/87; 83-16-066 (Order 83-23), § 296-23-20102, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-20102, filed 12/23/80, effective 3/1/81.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-204 Panel or profile tests. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-204, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-204, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-204, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-204, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-204, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-204, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-204, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-204, filed 12/23/80, effective 3/1/81; Order 74-39, § 296-23-204, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-204, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-208 Urinalysis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-208, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-208, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-208, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-208, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-208, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-208, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-208, filed 1/30/74. Formerly WAC 296-23-245.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-210 Chiropractic office visits and special services. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-210, filed 8/1/93, effective 9/1/93.] Repealed by 97-24-044, filed 11/26/97, effective 1/1/98. Statutory Authority: RCW 51.04.020, 51.04.030, 51.36.080 and 51.36.110.

296-23-212 Chemistry and toxicology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-212, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-212, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-212, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-212, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23-212, filed 1/8/87; 86-06-032 (Order 86-19), § 296-23-212, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-212, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-212, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-212, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-212, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-216 Hematology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-216, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-216, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-216, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-216, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-216, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-216, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-216, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-216, filed 1/30/74. Formerly WAC 296-23-210.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-221 Immunology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-221, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-221, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-221, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-221, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-221, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-221, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-221, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-221, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-221, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-224 Microbiology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-224, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-224, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-224, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-224, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-224, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-224, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-224, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-224, filed 1/30/74. Formerly WAC 296-23-205.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-228 Anatomic pathology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-228, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-228, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-228, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-228, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-228, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-228, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-228, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-228, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-228, filed 1/30/74. Formerly WAC 296-23-240.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-231 Anatomic pathology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-231, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-231, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-231, filed 8/10/89, effective 9/10/89.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-232 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23-232, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23-232, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23-232, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23-232, filed 7/23/87; 86-06-032 (Order 86-19), § 296-23-232, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-232, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-232, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-300 General statement. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-23-300, filed 10/1/86, effective 11/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-300, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-300, filed 11/28/75, effective 1/1/76; Order 68-7, § 296-23-300, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-301 Rates for daily and ancillary services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-23-301, filed 10/1/86, effective 11/1/86; 86-04-035 (Order 86-15), § 296-23-301, filed 1/30/86. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-301, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-301, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-301, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-301, filed 11/28/75, effective 1/1/76.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-305 Questionable beneficiary. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-305, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-305, filed 11/24/76, effective 1/1/77; Order 70-12, § 296-23-305, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-305, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-310 Refund of incorrect payments. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-310, filed 12/23/80, effective 3/1/81; Order 68-7, § 296-23-310, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-315 Treatment of unrelated conditions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-23-315, filed 8/2/83; Order 70-12, § 296-23-315, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-315, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-320 Private room—Critical cases. [Order 74-7, § 296-23-320, filed 1/30/74; Order 68-7, § 296-23-320, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-39, filed 11/22/74 and Order 75-39, filed 11/28/75.

296-23-325 Isolation of infected cases. [Order 70-12, § 296-23-325, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-325, filed 11/27/68, effective 1/1/69.] Repealed by Order 74-39, filed 11/22/74 and Order 75-39, filed 11/28/75.

296-23-330 Closed claims. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-330, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-330, filed 1/30/74; Order 70-12, § 296-23-330, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-330, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed

1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-335 RX's take home. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-335, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-335, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-335, filed 11/28/75, effective 1/1/76; Order 68-7, § 296-23-335, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-340 Routine laboratory procedures on admission. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-340, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-340, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-340, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-340, filed 11/22/74, effective 1/1/75; Order 68-7, § 296-23-340, filed 11/27/68, effective 1/1/69.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-345 Per diem rate. [Order 68-7, § 296-23-345, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-350 Bed accommodations. [Order 74-39, § 296-23-350, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-350, filed 1/30/74; Order 68-7, § 296-23-350, filed 11/27/68, effective 1/1/69.] Repealed by Order 75-39, filed 11/28/75, effective 1/1/76.

296-23-355 Rate affidavit. [Order 75-39, § 296-23-355, filed 11/28/75, effective 1/1/76; Order 74-7, § 296-23-355, filed 1/30/74; Order 70-12, § 296-23-355, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-355, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-356 Billing procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-23-356, filed 10/1/86, effective 11/1/86; 83-16-066 (Order 83-23), § 296-23-356, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-356, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-356, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-23-356, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-356, filed 12/1/77; Emergency Order 77-16, § 296-23-356, filed 9/6/77; Order 76-34, § 296-23-356, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-356, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-356, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-356, filed 1/30/74; Order 71-6, § 296-23-356, filed 6/1/71; Order 70-12, § 296-23-356, filed 12/1/70, effective 1/1/71. Formerly WAC 296-23-355 (part).] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-357 X-rays. [Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-357, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-357, filed 12/23/80, effective 3/1/81; Order 77-27, § 296-23-357, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-357, filed 12/1/77; Emergency Order 77-16, § 296-23-357, filed 9/6/77; Order 76-34, § 296-23-357, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-357, filed 1/30/74.] Repealed by 87-03-005 (Order 86-47), filed 1/8/87. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-360 Hospital daily service charge. [Order 74-7, § 296-23-360, filed 1/30/74; Order 68-7, § 296-23-360, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-365 Drugs. [Order 74-7, § 296-23-365, filed 1/30/74; Order 68-7, § 296-23-365, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-370 Dressing room and emergency room. [Order 74-39, § 296-23-370, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-370, filed 1/30/74; Order 68-7, § 296-23-370, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-375 Anesthetic material. [Order 74-7, § 296-23-375, filed 1/30/74; Order 68-7, § 296-23-375, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-380 Anesthetic administration—General. [Order 74-39, § 296-23-380, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-380, filed 1/30/74; Order 68-7, § 296-23-380, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-385 Anesthetic administration—Other. [Order 74-7, § 296-23-385, filed 1/30/74; Order 68-7, § 296-23-385, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-390 Surgery. [Order 74-39, § 296-23-390, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-390, filed 1/30/74; Order 68-7, § 296-23-390, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-395 Recovery room—Use of. [Order 74-7, § 296-23-395, filed 1/30/74; Order 68-7, § 296-23-395, filed 11/27/68, effective 1/1/69.] Repealed by 81-24-041 (Order 81-28), filed 11/30/81, effective 1/1/82. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-400 Oxygen. [Order 74-7, § 296-23-400, filed 1/30/74; Order 68-7, § 296-23-400, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-405 Parenteral fluid therapy. [Order 74-7, § 296-23-405, filed 1/30/74; Order 68-7, § 296-23-405, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-410 Use of cast room for application of casts. [Order 74-7, § 296-23-410, filed 1/30/74; Order 68-7, § 296-23-410, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-412 General information and instructions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-23-412, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-415 Cast—Materials only. [Order 74-7, § 296-23-415, filed 1/30/74; Order 68-7, § 296-23-415, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-420 Fracture appliances. [Order 74-7, § 296-23-420, filed 1/30/74; Order 68-7, § 296-23-420, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-421 Diagnostic services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-421, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-421, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-421, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-425 Laboratory. [Order 74-7, § 296-23-425, filed 1/30/74; Order 68-7, § 296-23-425, filed 11/27/68, effective 1/1/69.] Repealed by Order 76-34, filed 11/24/76, effective 1/1/77.

296-23-430 Preventive services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-430, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-430, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-430, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-440 Restorative services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-440, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-440, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-440, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-450 Endodontics. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-450, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-450, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-450, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-460 Periodontics. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-460, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-460, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-460, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-470 Prosthodontics, removable—Including routine postdelivery care. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-470, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-470, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-470, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-480 Prosthodontics, fixed. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-480, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-480, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-480, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-485 Orthodontics. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-485, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-485, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-490 Oral surgery. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-490, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-490, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-490, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-495 Adjunctive general services, anesthesia and professional consultation. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23-495, filed 8/10/89, effective 9/10/89; 86-06-032 (Order 86-19), § 296-23-495, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-495, filed 8/2/83.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-500 Miscellaneous services and appliances. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-22-052 (Order 87-22), § 296-23-500, filed 11/2/87; 83-24-016 (Order 83-35), § 296-23-500, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50001 Nursing services and attendant care. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-05-041, § 296-23-50001, filed 2/13/92, effective 3/15/92; 86-06-032 (Order 86-19), § 296-23-50001, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50001, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50002 Transportation services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-07-008, § 296-23-50002, filed 3/8/91, effective 5/1/91; 86-06-032 (Order 86-19), § 296-23-50002, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50002, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50003 Hearing aids and masking devices. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50003, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50003, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50004 Eyeglasses and contact lenses. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50004, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50004, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50005 Orthotics and prosthetics. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50005, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50005, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50006 Medical supplies. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50006, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50006, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50007 Pulmonary and respiratory services and supplies. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-50007, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50008 Hospital beds and accessories. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50008, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50008, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50009 Traction equipment. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50009, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50009, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50010 Canes. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-50010, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50011 Crutches. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-50011, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50012 Walkers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50012, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50012, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50013 Wheelchairs. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50013, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50013, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50014 Stimulators. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-22-052 (Order 87-22), § 296-23-50014, filed 11/2/87; 86-06-032 (Order 86-19), § 296-23-50014, filed 2/28/86, effective 4/1/86; 83-24-016 (Order 83-35), § 296-23-50014, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50015 Vehicle and home modification. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-50015, filed 11/30/83, effective 1/1/84.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-50016 Drug and alcohol rehabilitation services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-50016, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-510 Osteopathic office visits. [Order 68-7, § 296-23-510, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71.

296-23-515 Osteopathic hospital visits. [Order 68-7, § 296-23-515, filed 11/27/68, effective 1/1/69.] Repealed by Order 70-12, filed 12/1/70, effective 1/1/71.

296-23-610 General instructions. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-610, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-610, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-610, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-610, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-610, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-610, filed 1/30/74; Order 71-6, § 296-23-610, filed 6/1/71; Order 70-12, § 296-23-610, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-610, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-61001 Who may treat. [Order 76-34, § 296-23-61001, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61002 Acceptance of rules and fees. [Order 76-34, § 296-23-61002, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61003 Penalties. [Order 76-34, § 296-23-61003, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61004 Initial treatment and report of accident. [Order 76-34, § 296-23-61004, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61005 Treatment following initial treatment. [Order 77-27, § 296-23-61005, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-61005, filed 12/1/77; Emergency Order 77-16, § 296-23-61005, filed 9/6/77; Order 76-34, § 296-23-61005, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61006 Rejected and closed claims. [Order 76-34, § 296-23-61006, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61007 Treatment beyond 60 days. [Order 76-34, § 296-23-61007, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61008 Doctor's supplemental report. [Order 76-34, § 296-23-61008, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61009 Transfer of practitioners. [Order 77-27, § 296-23-61009, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-61009, filed 12/1/77; Emergency Order 77-16, § 296-23-61009, filed 9/6/77; Order 76-34, § 296-23-61009, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61010 Concurrent treatment. [Order 76-34, § 296-23-61010, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-61011 Billing procedures. [Order 77-27, § 296-23-61011, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-61011, filed 12/1/77; Emergency Order 77-16, § 296-23-61011, filed 9/6/77; Order 76-34, § 296-23-61011, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-615 Office visits and special services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-23-615, filed 7/23/87; 83-16-066 (Order 83-23), § 296-23-615, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-615, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-615, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-615, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-615, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-615, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-615, filed 1/30/74; Order 68-7, § 296-23-615, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-620 Chiropractic consultations. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-620, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-620, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-620, filed 1/30/74; Order 68-7, § 296-23-620, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-710 Physical therapy rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23-710, filed 3/23/89, effective 5/1/89; 86-06-032 (Order 86-19), § 296-23-710, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-710, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-710, filed 12/23/80, effective 3/1/81; Order 75-39, § 296-23-710, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-710, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-710, filed 1/30/74; Order 71-6, § 296-23-710, filed 6/1/71; Order 70-12, § 296-23-710, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-710, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-715 Modalities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-23-715, filed 7/23/87; 83-16-066 (Order 83-23), § 296-23-715, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-715, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-715, filed 1/30/74; Order 68-7, § 296-23-715, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-720 Procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-720, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-720, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-720, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-720, filed 11/24/76, effective 1/1/77; Order 74-7, § 296-23-720, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-725 Tests and measurements. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23-725, filed 8/16/91, effective 9/30/91; 87-08-004 (Order 87-09), § 296-23-725, filed 3/20/87; 86-06-032 (Order 86-19), § 296-23-725, filed 2/28/86, effective 4/1/86; 83-16-066 (Order 83-23), § 296-23-725, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030, and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-725, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-725, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-730 Work hardening. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23-730, filed 3/23/89, effective 5/1/89.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-810 General instructions. [Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-810, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-810, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-810, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-810, filed 11/22/74, effective 1/1/75; Order 74-7, § 296-23-810, filed 1/30/74; Order 71-6, § 296-23-810, filed

6/1/71; Order 70-12, § 296-23-810, filed 12/1/70, effective 1/1/71; Order 68-7, § 296-23-810, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-81001 Who may treat. [Order 76-34, § 296-23-81001, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81002 Acceptance of rules and fees. [Order 76-34, § 296-23-81002, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81003 Penalties. [Order 76-34, § 296-23-81003, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81004 Initial treatment and report of accident. [Order 76-34, § 296-23-81004, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81005 Treatment following initial treatment. [Order 77-27, § 296-23-81005, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-81005, filed 12/1/77; Emergency Order 77-16, § 296-23-81005, filed 9/6/77; Order 76-34, § 296-23-81005, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81006 Rejected and closed claims. [Order 76-34, § 296-23-81006, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81007 Treatment beyond 60 days. [Order 76-34, § 296-23-81007, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81008 Doctor's supplemental report. [Order 76-34, § 296-23-81008, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81009 Transfer of practitioners. [Order 77-27, § 296-23-81009, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-81009, filed 12/1/77; Emergency Order 77-16, § 296-23-81009, filed 9/6/77; Order 76-34, § 296-23-81009, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81010 Concurrent treatment. [Order 76-34, § 296-23-81010, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-81011 Billing procedures. [Order 77-27, § 296-23-81011, filed 11/30/77, effective 1/1/78; Emergency Order 77-26, § 296-23-81011, filed 12/1/77; Emergency Order 77-16, § 296-23-81011, filed 9/6/77; Order 76-34, § 296-23-81011, filed 11/24/76, effective 1/1/77.] Repealed by 81-01-100 (Order 80-29), filed 12/23/80, effective 3/1/81. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3).

296-23-811 Office visits and special services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-23-811, filed 7/23/87. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-24-041 (Order 81-28), § 296-23-811, filed 11/30/81, effective 1/1/82; 81-01-100 (Order 80-29), § 296-23-811, filed 12/23/80, effective 3/1/81; Order 76-34, § 296-23-811, filed 11/24/76, effective 1/1/77; Order 75-39, § 296-23-811, filed 11/28/75, effective 1/1/76; Order 74-39, § 296-23-815, (codified as WAC 296-23-811), filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-811, filed 1/30/74; Order 68-7, § 296-23-811, filed 11/27/68, effective 1/1/69.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-900 Licensed nursing rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-18-028, § 296-23-900, filed 8/27/90, effective 9/27/90; 89-17-039 (Order 89-09), § 296-23-900, filed 8/10/89, effective 9/10/89; 86-20-074 (Order 86-36), § 296-23-900, filed 10/1/86, effective 11/1/86; 83-16-066 (Order 83-23), § 296-23-900, filed 8/2/83. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-900, filed 12/23/80, effective 3/1/81; Order 74-39, § 296-23-900, filed 11/22/74, effective 4/1/75; Order 74-7, § 296-23-900, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-910 Licensed nursing billing instructions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-18-028, § 296-23-910, filed 8/27/90, effective 9/27/90; 86-20-074 (Order 86-36), § 296-23-910, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-23-910, filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4), 51.04.030 and 51.16.120(3). 81-01-100 (Order 80-29), § 296-23-910, filed 12/23/80, effective 3/1/81; Order 74-7, § 296-23-910, filed 1/30/74.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-940 Vocational service providers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-23-940, filed 11/29/82, effective 1/1/83.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9401 Reasons for holding provider ineligible for referral. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-23-9401, filed 11/29/82, effective 1/1/83.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9402 Time lines. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-23-9402, filed 11/29/82, effective 1/1/83.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9403 Services requiring authorization. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-23-9403, filed 11/29/82, effective 1/1/83.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9408 Vocational fee schedule. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-16-066 (Order 83-23), § 296-23-9408, filed 8/2/83. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 82-24-050 (Order 82-39), § 296-23-9408, filed 11/29/82, effective 1/1/83.] Repealed by 83-24-016 (Order 83-35), filed 11/30/83, effective 1/1/84. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9409 Vocational services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-9409, filed 11/30/83, effective 1/1/84.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-9410 Retraining service. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 83-24-016 (Order 83-35), § 296-23-9410, filed 11/30/83, effective 1/1/84.] Repealed by 86-06-032 (Order 86-19), filed 2/28/86, effective 4/1/86. Statutory Authority: RCW 51.04.020(4) and 51.04.030.

296-23-950 Massage therapy rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-06-032 (Order 86-19), § 296-23-950, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-960 Massage—Modalities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 86-20-074 (Order 86-36), § 296-23-960, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-23-960, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-970 Occupational therapy rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23-970, filed 3/23/89, effective 5/1/89; 86-06-032

(Order 86-19), § 296-23-970, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-980 Occupational therapy services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23-980, filed 8/16/91, effective 9/30/91; 87-08-004 (Order 87-09), § 296-23-980, filed 3/20/87; 86-20-074 (Order 86-36), § 296-23-980, filed 10/1/86, effective 11/1/86; 86-06-032 (Order 86-19), § 296-23-980, filed 2/28/86, effective 4/1/86.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23-990 Work hardening. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23-990, filed 3/23/89, effective 5/1/89.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

RADIOLOGY

WAC 296-23-135 General information—Radiology. (1) Rules and billing procedures pertaining to all practitioners rendering services to workers are presented in the general instruction section beginning with WAC 296-20-010.

(2) Billing codes, reimbursement levels, and supporting policies are listed in the fee schedules.

(3) Refer to WAC 296-20-132 and 296-20-135 for information regarding use of the conversion factors.

(4) Refer to the fee schedules for information on use of coding modifiers.

(5) The values listed in the fee schedules only apply when these services are performed by or under the responsible supervision of a doctor.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-14-044, § 296-23-135, filed 6/29/94, effective 7/30/94; 93-16-072, § 296-23-135, filed 8/1/93, effective 9/1/93.]

WAC 296-23-140 Custody of x-rays. (1) Radiographs should not be sent to the department or self-insurer unless they are requested for comparison and interpretation in determining a permanent disability, administrative or legal decisions, and for cases in litigation. X-rays must be retained for a period of ten years by the radiologist or the attending doctor.

(2) X-rays must be made available upon request to consultants, to medical examiners, to the department, to self-insurers, and/or the board of industrial insurance appeals.

(3) In cases where the worker transfers from one doctor to another, the former attending doctor will immediately forward all films in his possession to the new attending doctor.

(4) When a doctor's office is closed because of death, retirement, or upon leaving the state, department approved custodial arrangements must be made to insure availability on request. If a radiological office is closed for any of the previously listed reasons or because the partnership or corporation is being dissolved, disposition of x-rays for industrial injuries will be handled in the same manner. In the event custodial arrangements are to be made, the department must approve the arrangements prior to transfer of x-rays to the custodian so as to assure their availability to the department or self-insurer upon request.

(5) Refer to chapter 296-20 WAC (including WAC 296-20-125) and to chapter 296-21 WAC for additional information.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-140, filed 8/1/93, effective 9/1/93.]

WAC 296-23-145 Duplication of x-rays and extra views. Every attempt should be made to minimize the number of x-rays taken for workers. The attending doctor or any other person or institution having possession of x-rays which pertain to the injury and are deemed to be needed for diagnostic or treatment purposes should make these x-rays available upon request.

The department or self-insurer will not authorize or pay for additional x-rays when recent x-rays are available except when presented with adequate information regarding the need to re-x-ray.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-145, filed 8/1/93, effective 9/1/93.]

PATHOLOGY

WAC 296-23-155 Pathology general information and instructions. (1) Rules and billing procedures pertaining to all practitioners rendering service to workers are presented in general information section beginning with WAC 296-20-010.

(2) Refer to WAC 296-20-132 and 296-20-135 for information regarding use of the conversion factors.

(3) Refer to the fee schedules for information on use of coding modifiers.

(4) Billing codes, reimbursement levels, and supporting policies are listed in the fee schedules.

(5) The reimbursement levels listed in the fee schedules apply only when the services are performed by or under the responsible supervision of a physician. Unless otherwise specified, the listed values include the collection and handling of the specimens by the laboratory performing the procedure. SERVICES IN PATHOLOGY AND LABORATORY are provided by the pathologist or by technologists under responsible supervision of a physician.

(6) Laboratory procedures performed by other than the billing physician shall be billed at the value charged that physician by the reference (outside) laboratory under the individual procedure number or the panel procedure number listed under "PANEL OR PROFILE TESTS" (see modifier -90).

(7) The department or self-insurer may deny payment for lab procedures which are determined to be excessive or unnecessary for management of the injury or conditions.

(8) Separate or multiple procedures: It is appropriate to designate multiple procedures that are rendered on the same date by separate entries.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-14-044, § 296-23-155, filed 6/29/94, effective 7/30/94; 93-16-072, § 296-23-155, filed 8/1/93, effective 9/1/93.]

DENTAL

WAC 296-23-160 General information and instructions. (1) The department or self-insurer is responsible only for repair or replacement of teeth injured or prosthodontics broken as a result of an industrial injury.

(2) Information pertaining to industrial claims is explained in WAC 296-20-010.

(3) Information pertaining to reports of accident is outlined in WAC 296-20-025.

(4) Information pertaining to the care of workers is explained in WAC 296-20-110.

(5) An estimate of cost is not needed prior to authorization of dental work unless indicated due to the extensive nature of the dental work. The department or self-insurer reserves the right to review all charges billed.

(6) Billing instructions are listed in WAC 296-20-125. Bills for services must be itemized, specifying tooth numbers and materials used. No services will be paid on rejected or closed claims except those rendered in conjunction with a reopening application.

(7) Billing codes, billing modifiers, reimbursement levels, and supporting policies are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-160, filed 8/1/93, effective 9/1/93.]

MISCELLANEOUS SERVICES AND APPLIANCES

WAC 296-23-165 Miscellaneous services and appliances. (1) The department or self-insurer will reimburse for certain medically necessary miscellaneous services and items needed as a result of an industrial accident. Nursing care, attendant care, transportation, hearing aids, eyeglasses, orthotics and prosthetics, braces, medical supplies, oxygen systems, walking aids, and durable medical equipment are included in this classification.

(a) When a fee maximum has been established, the rate of reimbursement for miscellaneous services and items will be the supplier's usual and customary charge or the department's current fee maximum, whichever is less. In no case may a supplier or provider charge a worker the difference between the fee maximum and their usual and customary charge.

(b) When the department or self-insurer has established a purchasing contract with a qualified supplier through an open competitive request for proposal process, the department or self-insurer will require that workers obtain specific groups of items from the contractor. When items are obtained from a contractor, the contractor will be paid at the rates established in the contract. When a purchasing contract for a selected group of items exists, suppliers who are not named in the contract will be denied reimbursement if they provide a contracted item to a worker. The noncontracting supplier, not the worker, will be financially responsible for providing an item to a worker when it should have been supplied by a contractor. This rule may be waived by an authorized representative of the department or self-insurer in special cases where a worker's attending doctor recommends that an item be obtained from another source for medical reasons or reasons of availability. In such cases, the department may authorize reimbursement to a supplier who is not named in a contract. Items or services may be provided on an emergency basis without prior authorization, but will be reviewed for appropriateness to the accepted industrial condition and medical necessity on a retrospective basis.

(2) The department or self-insurer will inform providers and suppliers of the selected groups of items for which purchasing contracts have been established, including the beginning and ending dates of the contracts.

(3) Prior authorization by an authorized representative of the department or self-insurer will be required for reimbursement of selected items and services which are provided to workers. Payment will be denied for selected items or services supplied without prior authorization. The supplier, not the worker, will be financially responsible for providing selected items or services to workers without prior authorization. In cases where a worker's doctor recommends rental or purchase of a contracted item from a supplier who lacks a contract agreement, prior authorization will be required.

The decision to grant or deny prior authorization for reimbursement of selected services or items will be based on the following criteria:

(a) The worker is eligible for coverage.

(b) The service or item prescribed is appropriate and medically necessary for treatment of the worker's accepted industrial condition.

(4) The decision to rent or purchase an item will be made based on a comparison of the projected rental costs of the item with its purchase price. An authorized representative of the department or self-insurer will decide whether to rent or purchase certain items provided they are appropriate and medically necessary for treatment of the worker's accepted condition. Decisions to rent or purchase items will be based on the following information:

(a) Purchase price of the item.

(b) Monthly rental fee.

(c) The prescribing doctor's estimate of how long the item will be needed.

(5) The department will review the medical necessity, appropriateness, and quality of items and services provided to workers.

(6) The department's STATEMENT FOR MISCELLANEOUS SERVICES form or electronic transfer format specifications must be used for billing the department for miscellaneous services, equipment, supplies, appliances, and transportation. Bills must be itemized according to instructions in WAC 296-20-125 and the department or self-insurer's billing instructions. Bills for medical appliances and equipment must include the type of item, manufacturer name, model name and number, and serial number.

(7) All miscellaneous materials, supplies and services must be billed using the appropriate HCPCS Level II codes and billing modifiers. HCPCS codes are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-165, filed 8/1/93, effective 9/1/93.]

WAC 296-23-170 Nursing services and attendant care. Refer to WAC 296-20-132 and 296-20-135 for information regarding use of the conversion factors.

See WAC 296-20-091 for qualifications.

The codes and fees for home nursing services and attendant care are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-170, filed 8/1/93, effective 9/1/93.]

WAC 296-23-175 Stimulators. For qualifications regarding prior authorization and billing of stimulators refer to chapter 296-23 WAC (Miscellaneous services and appliances), WAC 296-20-1102, and 296-20-125.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-175, filed 8/1/93, effective 9/1/93.]

WAC 296-23-180 Vehicle and home modification. Requires prior approval from the assistant director for industrial insurance.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 96-10-086, § 296-23-180, filed 5/1/96, effective 7/1/96. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-180, filed 8/1/93, effective 9/1/93.]

WAC 296-23-185 Drug and alcohol rehabilitation services. Authorization requirements for these services may be found in WAC 296-20-03001 and 296-20-055.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 96-10-086, § 296-23-185, filed 5/1/96, effective 7/1/96. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-185, filed 8/1/93, effective 9/1/93.]

CHIROPRACTIC

WAC 296-23-195 Chiropractic consultations. See WAC 296-20-035, 296-20-045, and 296-20-051 for rules pertaining to consultation.

Chiropractic consultation requires prior notification to the department or self-insurer. Consultants must be from an approved list of chiropractic consultants.

The codes and reimbursement levels for chiropractic consultations services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-195, filed 8/1/93, effective 9/1/93.]

NATUROPATHIC PHYSICIANS

WAC 296-23-205 General instructions—Naturopathic physicians. (1) Refer to WAC 296-20-010 through 296-20-125 regarding general rules and billing procedures.

(2) Refer to WAC 296-20-132 and 296-20-135 regarding the use of conversion factors.

(3) In addition to general rules found in WAC 296-20-010 through 296-20-125, the following rules apply to naturopathic physicians:

(a) If the naturopathic physician is dual licensed, all treatment rendered by the practitioner must be billed as "treatment of the day." Further, the practitioner must elect and notify the department or self-insurer, which type of treatment he is providing for the injured worker, and abide by rules pertaining to area of elected treatment.

(b) Naturopathic physicians utilizing hydro-; mechano-; and/or electro- therapy modalities cannot bill for those services in addition to office visit services. Office visit includes treatment of the day.

(c) No more than one office visit will be allowed per day, except on the initial and next two subsequent visits. The attending doctor must submit a detailed report regarding the need for the additional treatment.

(d) If necessary, x-rays may be taken immediately prior to and following the initial naturopathic physician treatment without prior authorization.

(e) X-rays immediately prior to and following each subsequent naturopathic physician treatment will be disallowed, unless previously authorized.

(f) Prior authorization must be obtained for x-rays subsequent to initial treatment.

(g) Payment will not be made for excessive or unnecessary x-rays. No payment will be made for x-rays taken on rejected or closed claims, except those taken in conjunction with a reopening application.

(h) See chapter 296-23 WAC for custody requirements for x-rays.

(4) Drugless therapy as a maintenance or supportive measure will not be authorized or paid.

(5) Treatment beyond the first twenty treatments or sixty days, whichever occurs first, will not be authorized without submission of a consultation report or a comprehensive comparative exam report regarding need for further care.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-205, filed 8/1/93, effective 9/1/93.]

WAC 296-23-215 Office visits and special services—Naturopathic physicians. Definitions:

Routine office visit: A level of service pertaining to the evaluation and treatment of a condition requiring only an abbreviated history and exam.

Extended office visit: A level of service pertaining to an evaluation of patient with a new or existing problem requiring a detailed history, review of records, exam, and a formal conference with patient or family to evaluate and/or adjust therapeutic treatment management and progress.

Comprehensive office visit: A level of service pertaining to an indepth evaluation of a patient with a new or existing problem, requiring development or complete reevaluation of treatment data; includes recording of chief complaints and present illness, family history, past treatment history, personal history, system review; and a complete exam to evaluate and determine appropriate therapeutic treatment management and progress.

Reporting:

Reporting requirements are outlined in WAC 296-20-06101. The department or self-insurer will accept a brief narrative report of treatment received and the patient's progress as supporting documentation for billings in lieu of routine follow-up office notes.

Modifiers:

-22 Unusual services: When treatment services provided are greater than that usually required for listed procedures. Use of this modifier must be based on the injured worker's need for extended or unusual care. A report is required. The modifier -22 should be added to the procedure number.

-52 Reduced services: Under certain circumstances no treatment may be given, in these cases the procedure should be reduced by ten units and modifier -52 should be added to the procedure number.

Material supplied by doctor:

Department or self-insurer will reimburse the doctor for materials supplied, i.e., cervical collars, heel lifts, etc., at cost only. See RCW 19.68.010, professional license statutes.

All supplies and materials must be billed using HCPCS Level II codes as listed in the fee schedules.

The codes and reimbursement levels are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-215, filed 8/1/93, effective 9/1/93.]

PHYSICAL THERAPY

WAC 296-23-220 Physical therapy rules. Practitioners should refer to WAC 296-20-010 through 296-20-125 for general information and rules pertaining to the care of workers.

Refer to WAC 296-20-132 and 296-20-135 regarding the use of conversion factors.

All supplies and materials must be billed using HCPCS Level II codes. Refer to chapter 296-21 WAC for additional information. HCPCS codes are listed in the fee schedules.

Refer to chapter 296-20 WAC (WAC 296-20-125) and to the department's billing instructions for additional information.

Physical therapy treatment will be reimbursed only when ordered by the worker's attending doctor and rendered by a licensed physical therapist or a physical therapist assistant serving under the direction of a licensed physical therapist. Doctors rendering physical therapy should refer to WAC 296-21-290.

The department or self-insurer will review the quality and medical necessity of physical therapy services provided to workers. Practitioners should refer to WAC 296-20-01002 for the department's rules regarding medical necessity and to WAC 296-20-024 for the department's rules regarding utilization review and quality assurance.

The department or self-insurer will pay for a maximum of one physical therapy visit per day. When multiple treatments (different billing codes) are performed on one day, the department or self-insurer will pay either the sum of the individual fee maximums, the provider's usual and customary charge, or $80.00 whichever is less. These limits will not apply to physical therapy that is rendered as part of a physical capacities evaluation, work hardening program, or pain management program, provided a qualified representative of the department or self-insurer has authorized the service.

The department will publish specific billing instructions, utilization review guidelines, and reporting requirements for physical therapists who render care to workers.

Use of diapulse or similar machines on workers is not authorized. See WAC 296-20-03002 for further information.

A physical therapy progress report must be submitted to the attending doctor and the department or the self-insurer following twelve treatment visits or one month, whichever occurs first. Physical therapy treatment beyond initial twelve treatments will be authorized only upon substantiation of improvement in the worker's condition. An outline of the proposed treatment program, the expected restoration goals, and the expected length of treatment will be required.

Physical therapy services rendered in the home and/or places other than the practitioner's usual and customary office, clinic, or business facilities will be allowed only upon prior authorization by the department or self-insurer.

No inpatient physical therapy treatment will be allowed when such treatment constitutes the only or major treatment received by the worker. See WAC 296-20-030 for further information.

The department may discount maximum fees for treatment performed on a group basis in cases where the treatment provided consists of a nonindividualized course of therapy (e.g., pool therapy; group aerobics; and back classes).

Biofeedback treatment may be rendered on doctor's orders only. The extent of biofeedback treatment is limited to those procedures allowed within the scope of practice of a licensed physical therapist. See chapter 296-21 WAC for rules pertaining to conditions authorized and report requirements.

Billing codes and reimbursement levels are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 98-09-125, § 296-23-220, filed 4/22/98, effective 7/1/98; 97-10-017, § 296-23-220, filed 4/28/97, effective 7/1/97; 96-10-086, § 296-23-220, filed 5/1/96, effective 7/1/96; 95-05-072, § 296-23-220, filed 2/15/95, effective 3/18/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-02-045, § 296-23-220, filed 12/30/93, effective 3/1/94; 93-16-072, § 296-23-220, filed 8/1/93, effective 9/1/93.]

WAC 296-23-225 Work hardening. The department will publish billing instructions, reimbursement limits, quality assurance standards, utilization review guidelines, admission criteria, outcome criteria, measures of effectiveness, minimum staffing levels, certification requirements, special reporting requirements, and other criteria that will ensure workers receive good quality services at cost-effective payment levels. Providers will be required to meet the department's requirements in order to qualify as a work hardening provider. The department may also establish a competitive or other appropriate selection process for work hardening providers. Providers should refer to WAC 296-20-12050 regarding special programs.

Billing codes and reimbursement levels are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-225, filed 8/1/93, effective 9/1/93.]

OCCUPATIONAL THERAPY

WAC 296-23-230 Occupational therapy rules. Practitioners should refer to WAC 296-20-010 through 296-20-125 for general information and rules pertaining to the care of workers.

Refer to WAC 296-20-132 and 296-20-135 for information regarding the conversion factors.

All supplies and materials must be billed using HCPCS Level II codes, refer to the department's billing instructions for additional information.

Occupational therapy treatment will be reimbursed only when ordered by the worker's attending doctor and rendered by a licensed occupational therapist or an occupational therapist assistant serving under the direction of a licensed occu-

pational therapist. Vocational counselors assigned to injured workers by the department or self-insurer may request an occupational therapy evaluation. However, occupational therapy treatment must be ordered by the worker's attending doctor.

An occupational therapy progress report must be submitted to the attending doctor and the department or self-insurer following twelve treatment visits or one month, whichever occurs first. Occupational therapy treatment beyond the initial twelve treatments will be authorized only upon substantiation of improvement in the worker's condition. An outline of the proposed treatment program, the expected restoration goals, and the expected length of treatment will be required.

The department or self-insurer will review the quality and medical necessity of occupational therapy services. Practitioners should refer to WAC 296-20-01002 for the department's definition of medically necessary and to WAC 296-20-024 for the department's rules regarding utilization review and quality assurance.

The department will pay for a maximum of one occupational therapy visit per day. When multiple treatments (different billing codes) are performed on one day, the department or self-insurer will pay either the sum of the individual fee maximums, the provider's usual and customary charge, or $80.00 whichever is less. These limits will not apply to occupational therapy which is rendered as part of a physical capacities evaluation, work hardening program, or pain management program, provided a qualified representative of the department or self-insurer has authorized the service.

The department will publish specific billing instructions, utilization review guidelines, and reporting requirements for occupational therapists who render care to workers.

Occupational therapy services rendered in the worker's home and/or places other than the practitioner's usual and customary office, clinic, or business facility will be allowed only upon prior authorization by the department or self-insurer.

No inpatient occupational therapy treatment will be allowed when such treatment constitutes the only or major treatment received by the worker. See WAC 296-20-030 for further information.

The department may discount maximum fees for treatment performed on a group basis in cases where the treatment provided consists of a nonindividualized course of therapy (e.g., pool therapy; group aerobics; and back classes).

Billing codes, reimbursement levels, and supporting policies for occupational therapy services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020(4) and 51.04.030. 98-09-125, § 296-23-230, filed 4/22/98, effective 7/1/98; 97-10-017, § 296-23-230, filed 4/28/97, effective 7/1/97; 96-10-086, § 296-23-230, filed 5/1/96, effective 7/1/96; 95-05-072, § 296-23-230, filed 2/15/95, effective 3/18/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-02-045, § 296-23-230, filed 12/30/93, effective 3/1/94; 93-16-072, § 296-23-230, filed 8/1/93, effective 9/1/93.]

WAC 296-23-235 Work hardening. The department will publish billing instructions, reimbursement limits, quality assurance standards, utilization review guidelines, admission criteria, outcome criteria, measures of effectiveness, minimum staffing levels, certification requirements, special reporting requirements, and other criteria that will ensure workers receive good quality services at cost-effective payment levels. Providers will be required to meet the department's requirements in order to qualify as a work hardening provider. The department may also establish a competitive or other appropriate selection process for work hardening providers. Providers should refer to WAC 296-20-12050 regarding special programs.

Billing codes, reimbursement levels, and supporting policies for work hardening services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-235, filed 8/1/93, effective 9/1/93.]

NURSING

WAC 296-23-240 Licensed nursing rules. (1) Registered nurses and licensed practical nurses may perform private duty nursing care in industrial injury cases when the attending physician deems this care necessary. Registered nurses may be reimbursed for services as outlined by department policy. (See chapter 296-20 WAC for home nursing rules.)

(2) Advanced registered nurse practitioners (ARNPs) may perform advanced and specialized levels of nursing care on a fee for service basis in industrial injury cases within the limitations of this section. ARNPs may be reimbursed for services as outlined by department policy.

(3) In order to treat workers under the Industrial Insurance Act, the advanced registered nurse practitioner must be:

(a) Recognized by the Washington state board of nursing or other government agency as an advanced registered nurse practitioner (ARNP). For out-of-state nurses an equivalent title and training may be approved at the department's discretion.

(b) Capable of providing the department with evidence and documentation of a reliable and rapid system of obtaining physician consultations.

(4) Billing procedures outlined in the medical aid rules and fee schedules apply to all nurses.

(5) Advanced registered nurse practitioners cannot sign accident report forms or time loss cards.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93- 16-072, § 296-23-240, filed 8/1/93, effective 9/1/93.]

WAC 296-23-245 Licensed nursing billing instructions. (1) Registered nurses may be required to obtain provider account numbers from the department as outlined by department policy.

(2) Advanced registered nurse practitioners must obtain provider account numbers from the department.

(3) Refer to WAC 296-20-132 and 296-20-135 for information regarding the conversion factors.

(4) Refer to the department's billing instructions for additional information.

(5) Services performed by advanced registered nurse practitioners must be billed using the appropriate procedure code number listed in the fee schedules preceded by a Type of Service Code "N." The rate of reimbursement for the ser-

vices billed by advanced registered nurse practitioners will be ninety percent of the value listed in the fee schedules.

(6) Refer to chapter 296-20 WAC (home nursing care) and chapter 296-23 WAC (miscellaneous services) for rules regarding reimbursement for home attendant care.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-245, filed 8/1/93, effective 9/1/93.]

WAC 296-23-250 Massage therapy rules. Practitioners should refer to WAC 296-20-010 through 296-20-125 for general information and rules pertaining to the care of workers. See WAC 296-20-125 for billing instructions.

Refer to WAC 296-20-132 and 296-20-135 for information regarding use of the conversion factors.

Massage therapy treatment will be permitted when given by a licensed massage practitioner only upon written orders from the worker's attending doctor.

A progress report must be submitted to the attending doctor and the department or the self-insurer following six treatment visits or one month, whichever comes first. Massage therapy treatment beyond the initial six treatments will be authorized only upon substantiation of improvement in the worker's condition in terms of functional modalities, i.e., range of motion; sitting and standing tolerance; reduction in medication; etc. In addition, an outline of the proposed treatment program, the expected restoration goals, and the expected length of treatment will be required.

Massage therapy in the home and/or places other than the practitioners usual and customary business facilities will be allowed only upon prior justification and authorization by the department or self-insurer.

No inpatient massage therapy treatment will be allowed when such treatment constitutes the only or major treatment received by the worker. See WAC 296-20-030 for further information.

Massage therapy treatments exceeding once per day must be justified by attending doctor.

Billing codes, reimbursement levels, and supporting policies for massage therapy services are listed in the fee schedules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-250, filed 8/1/93, effective 9/1/93.]

WAC 296-23-255 Independent medical examinations. (1) Purpose:

Independent medical examinations may be requested by the department, the self-insurer, or the attending physician; this is usually for one of the following purposes:

(a) To establish a diagnosis. Prior diagnoses may be controversial or ill-defined;

(b) To outline a program of rational treatment, where treatment or progress is controversial;

(c) To establish medical data from which it may be determined whether the medical condition is industrially acquired, or unrelated to industrial work activities;

(d) To determine the extent and duration of aggravation of a preexisting medical condition by an industrial injury or exposure;

(e) To establish when the accepted medical condition has reached maximum benefit from treatment;

(f) To establish a percentage rating of any permanent disability, based on the loss of body function or the category rating when maximum recovery is reached; or

(g) To determine the medical indications for reopening of a claim for further treatment on the basis of aggravation of an accepted condition, based on objective findings.

(2) Workers who are scheduled for independent medical examinations are allowed to bring with them an accompanying person to be present during the physical examination. The accompanying person cannot be compensated in any manner, except that language interpreters may be necessary for the communication process and may be reimbursed for interpretative services.

The department may designate those conditions under which the accompanying person is allowed to be present during the independent medical examination process.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-255, filed 8/1/93, effective 9/1/93.]

WAC 296-23-260 Examination reports. (1) It is the department's intention to purchase objective examinations to ensure that sure and certain determinations are made of all benefits to which the injured worker might be entitled.

The report of an independent medical examination must include the following items:

(a) A detailed chronology of the injury or condition including mechanism of injury, diagnostic studies, and treatments attempted. The chronology must mention the results of treatments and diagnostic studies;

(b) An opinion as to whether treatment actual or proposed is or will be curative or palliative in nature;

(c) An assessment of whether the condition is industrially caused, on a more probable than not basis;

(d) Specific diagnoses sorted into the following categories:

(i) The accepted condition;

(ii) Preexisting conditions, and a statement as to whether they are worsening on their own or are aggravated by the accepted industrially acquired condition; and

(iii) Conditions acquired after the industrial injury.

(e) Answers to written questions posed by adjudicators, or a description of what would be needed to address the questions; and

(f) Conclusions and a summary statement of the objective medical findings upon which the conclusions are based.

(2) Disability ratings are to be done as specified in WAC 296-20-210.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-260, filed 8/1/93, effective 9/1/93.]

WAC 296-23-265 Who may perform independent medical examinations? Doctors in Washington, Oregon, or Idaho who wish to perform independent medical examinations for the department or self-insurers providing coverage to workers covered under Title 51 RCW must be approved examiners. Independent medical examinations must be performed according to WAC 296-20-200 by the following:

Examiner is:	Doctors licensed to practice: Medicine & surgery	Osteopathic medicine & surgery	Podiatric medicine & surgery	Chiropractic	Dentistry
In Washington, Oregon, or Idaho and is approved by department to perform IMEs	Yes	Yes	Yes	Yes	Yes
Not in Washington, Oregon, or Idaho and is a board certified specialist	Yes	Yes	Yes	No	Yes
The treating doctor in a department approved chronic pain management program	Yes	Yes	Yes	No	Yes

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-265, filed 4/14/97 effective 5/15/97. Statutory Authority: RCW 51.32.112. 95-04-056, § 296-23-265, filed 1/26/95, effective 3/1/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-265, filed 8/1/93, effective 9/1/93.]

WAC 296-23-26501 How do doctors become approved examiners? Doctors must submit a completed department application to the provider review and education unit at the Department of Labor and Industries, P.O. Box 44322, Olympia, WA 98504 and receive the medical director's approval. Approved examiners will be included on the department's approved examiners list.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26501, filed 4/14/97 effective 5/15/97.]

WAC 296-23-26502 Where can doctors get an application to become an approved examiner and other information about independent medical examinations? The application for approved examiner status and the standards for independent medical examiners are published in the *Medical Examiners' Handbook* available from the department of labor and industries.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26502, filed 4/14/97 effective 5/15/97.]

WAC 296-23-26503 What factors does the medical director consider in approving, suspending or removing doctors from the approved examiners list? The medical director may consider several factors in approving, disapproving, or suspending examiners. Examples include, but are not limited to:

(1) Board certification;

(2) Complaints from workers about the conduct of the examiner (see WAC 296-23-26506);

(3) Disciplinary proceedings or actions;

(4) Experience in direct patient care in the area of specialty;

(5) Ability to effectively convey and substantiate medical opinions and conclusions concerning workers;

(6) Quality and timeliness of reports;

(7) Geographical need of the department and self-insurer;

(8) Availability and willingness to testify on behalf of the department, worker, or employer; and

(9) Acceptance of the department fee schedule rate for testimony.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26503, filed 4/14/97 effective 5/15/97.]

WAC 296-23-26504 What happens if an examiner is suspended or removed from the approved examiner list by the medical director? Examiners who are suspended or removed from the approved examiners list will not receive examination referrals from the department or self-insurers. In addition, suspended or removed examiners will not be reimbursed by the department or self-insurer for examinations performed at the request of other referral sources.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26504, filed 4/14/97 effective 5/15/97.]

WAC 296-23-26505 Is there a fee schedule for independent medical examinations? The maximum fee schedule for performing independent medical examinations is published in the *Medical Examiners' Handbook* available from the department.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26505, filed 4/14/97 effective 5/15/97.]

WAC 296-23-26506 Can a worker file a complaint about an independent medical examiner's conduct? Workers can send written complaints about the examiner's conduct during an independent medical examination to the self-insurer or department. Complaints received by the self-insurer and department staff must be promptly forwarded to the provider review and education unit. Based on the nature of the complaint, the department may refer the complaint to the department of health.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-26506, filed 4/14/97 effective 5/15/97.]

WAC 296-23-267 When may attending doctors perform impairment rating examinations? Attending doctors may perform impairment rating examinations for workers under their care at the direction of the state fund or self-insurer if licensed to perform:

- Medicine and surgery;
- Osteopathic medicine and surgery;
- Podiatric medicine and surgery;
- Dentistry; or
- Chiropractic (chiropractors must be on the approved examiners list).

Attending doctors performing rating exams must be available and willing to testify on behalf of the department, worker, or employer and accept the department fee schedule rate for testimony.

[Statutory Authority: RCW 51.04.020, 51.04.030, 51.32.112, 51.32.114 and 51.36.015. 97-09-036, § 296-23-267, filed 4/14/97 effective 5/15/97.]

WAC 296-23-270 Independent medical examinations two or more examiners. Providers who wish to offer independent medical examinations by two or more examiners must apply for a panel provider number and meet standards set by the medical director of the department. Examiners working through panels must be on the approved list.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23-270, filed 8/1/93, effective 9/1/93.]

Chapter 296-23A WAC
HOSPITALS

WAC

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296-23A-0620 What action will the department take upon receipt of a request for a rate adjustment?

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-23A-100 General information. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-100, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-16-004 (Order 87-18), § 296-23A-100, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-100, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-105 Payment for hospital inpatient and outpatient services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-105, filed 12/1/92, effective 1/1/93; 87-24-050 (Order 87-23), § 296-23A-105, filed 11/30/87, effective 1/1/88; 87-03-005 (Order 86-47), § 296-23A-105, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-106 Reimbursement for inpatient services by per case rates and percentage of allowed charges. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-106, filed 12/1/92, effective 1/1/93.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-110 Hospital outpatient fee schedule information. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-110, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-110, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97,

effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-115 Hospital outpatient services conversion factors. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-115, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-02-063, § 296-23A-115, filed 12/28/90, effective 1/28/91; 88-24-011 (Order 88-28), § 296-23A-115, filed 12/1/88, effective 1/1/89; 87-03-005 (Order 86-47), § 296-23A-115, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-120 Questionable eligibility. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-120, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-125 Refund of incorrect payments. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-125, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-130 Treatment of unrelated illness or injury. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-130, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-130, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-135 Closed claims. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-135, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-140 Take-home Rx's. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-140, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-145 Routine laboratory procedures on admission. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-145, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-150 Billing procedures. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-150, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 90-04-057, § 296-23A-150, filed 2/2/90, effective 3/5/90; 87-16-004 (Order 87-18), § 296-23A-150, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-150, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-155 New hospitals. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-23A-155, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-160 Excluded and included services. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-160, filed 12/1/92, effective 1/1/93; 87-24-050 (Order 87-23), § 296-23A-160, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-165 Out-of-state hospitals. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-23A-165, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-170 Outliers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-170, filed 12/1/92, effective 1/1/93; 90-04-057, § 296-23A-170, filed 2/2/90, effective 3/5/90; 87-24-050 (Order 87-23), § 296-23A-170, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-175 Interim bills. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-23A-175, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-180 Readmissions. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-23A-180, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-185 Transfers. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-24-050 (Order 87-23), § 296-23A-185, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-190 Adjustment of rates. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-190, filed 12/1/92, effective 1/1/93; 87-24-050 (Order 87-23), § 296-23A-190, filed 11/30/87, effective 1/1/88.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-200 General information—Hospital outpatient radiology. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-200, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-200, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-205 Billing procedures. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-205, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23A-205, filed 8/16/91, effective 9/30/91; 89-17-039 (Order 89-09), § 296-23A-205, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-205, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-210 Injection procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-210, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-215 Responsibility for x-rays. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-215, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-220 Duplication of x-rays. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-220, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-225 Additional views. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-225, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-230 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-230, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-230, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-235 Special report. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-235, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-235, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-240 Head and neck. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-240, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-240, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-240, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-240, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective

9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-242 Chest. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-242, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-242, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-242, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-242, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-244 Spine and pelvis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-244, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-244, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-244, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-244, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-244, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-246 Upper extremities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-246, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-246, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-246, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-246, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-246, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-248 Lower extremities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-248, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-248, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-248, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-248, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-250 Abdomen. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-250, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-250, filed 3/8/91, effective 5/1/91; 87-03-005 (Order 86-47), § 296-23A-250, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-252 Gastrointestinal tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-252, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-252, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-252, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-252, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-252, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-254 Urinary tract. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-254, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-254, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-254, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-254, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-254, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-256 Gynecological and obstetrical. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-256, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-256, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-256, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-256, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-256, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-258 Vascular system. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-258, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-258, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-258, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-258, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-258, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-260 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-260, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-260, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-260, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-260, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-260, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-262 Diagnostic ultrasound. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-262, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-262, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-262, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-262, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-262, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-264 Therapeutic radiology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-264, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-264, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-264, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-264, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-266 Nuclear medicine. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-266, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-266, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-266, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-266, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-266, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-268 Therapeutic. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-268, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-268, filed 3/8/91, effective 5/1/91; 87-03-005 (Order 86-47), § 296-23A-268, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-300 General information—Hospital outpatient pathology and laboratory. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-300, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-17-039 (Order 89-09), § 296-23A-300, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-300, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-310 Billing procedures. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-310, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-310, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-315 Unlisted service or procedure. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-315, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-315, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-320 Special report. [Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 93-16-072, § 296-23A-320, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-320, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-325 Panel or profile tests. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-

325, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-325, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-325, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-325, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-325, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-330 Urinalysis. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-330, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-330, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-330, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-330, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-335 Chemistry and toxicology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-335, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-335, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-335, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-335, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-335, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-340 Hematology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-340, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-340, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-340, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-340, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-340, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-345 Immunology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-345, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-345, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-345, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-345, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-345, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-350 Microbiology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-350, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-350, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-350, filed 8/10/89, effective 9/10/89; 87-03-005 (Order 86-47), § 296-23A-350, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-355 Cytopathology. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-355, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-355, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-355, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-355, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-355, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-360 Miscellaneous. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 92-24-066, § 296-23A-360, filed 12/1/92, effective 1/1/93; 91-07-008, § 296-23A-360, filed 3/8/91, effective 5/1/91; 89-17-039 (Order 89-09), § 296-23A-360, filed 8/10/89, effective 9/10/89; 87-16-004 (Order 87-18), § 296-23A-360, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-360, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-400 Hospital outpatient physical therapy rules. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 96-10-086, § 296-23A-400, filed 5/1/96, effective 7/1/96; 95-05-072, § 296-23A-400, filed 2/15/95, effective 3/18/95. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159. 94-02-045, § 296-23A-400, filed 12/30/93, effective 3/1/94; 93-16-072, § 296-23A-400, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23A-400, filed 3/23/89, effective 5/1/89; 87-03-005 (Order 86-47), § 296-23A-400, filed 1/8/87.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

296-23A-410 Muscle testing. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-410, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-415 Modalities. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-415, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-420 Procedures. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 87-03-005 (Order 86-47), § 296-23A-420, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-425 Tests and measurements. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 91-17-038, § 296-23A-425, filed 8/16/91, effective 9/30/91; 87-16-004 (Order 87-18), § 296-23A-425, filed 7/23/87; 87-03-005 (Order 86-47), § 296-23A-425, filed 1/8/87.] Repealed by 93-16-072, filed 8/1/93, effective 9/1/93. Statutory Authority: RCW 51.04.020, 51.04.030 and 1993 c 159.

296-23A-430 Work hardening. [Statutory Authority: RCW 51.04.020(4) and 51.04.030. 89-08-002 (Order 89-01), § 296-23A-430, filed 3/23/89, effective 5/1/89.] Repealed by 97-06-066, filed 2/28/97, effective 4/1/97. Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080.

PART 1 - GENERAL INFORMATION

WAC 296-23A-0100 Where can I find general information and rules pertaining to the care of workers? Hospitals may find general information and rules pertaining to the care of workers in chapters 296-20, 296-21 and 296-23 WAC, department bulletins and other department publications. This list is not exhaustive and hospitals remain responsible for other applicable rules.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0100, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0110 When will the department or self-insurer pay for hospital services? The department or self-insurer will pay for hospital services when proper and necessary for the treatment of the accepted occupational disease or injury.

See WAC 296-20-01002 for the definition of medically necessary.

See WAC 296-20-075 for further rules regarding hospitalization.

See WAC 296-20-03001 for treatment requiring authorization.

See WAC 296-20-03002 for treatment not authorized.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0110, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0120 What services are subject to review by the department or self-insurer? The department uses utilization review criteria and all hospital inpatient and outpatient services and billed charges are subject to review by the department, self-insurer or a representative chosen by the department or self-insurer.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0120, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0130 How does the department establish hospital payment rates? The department will establish and update hospital payment rates, methods and policies in consultation with interested persons at times determined by the department. The department will publish a description of payment methods, rates, and policies for hospital services at least thirty calendar days prior to implementation.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0130, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0140 How can interested persons request advance notice of changes to hospital payment rates, methods and policies? The department will give at least thirty calendar days notice to interested persons who request advance notice of changes to hospital payment rates, methods and policies. Interested persons may request advance notice by contacting the department at the following address:

Department of Labor and Industries
Health Services Analysis
Mailing List for Hospital Payment Rates
P.O. Box 44322
Olympia, Washington 98504-4322

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0140, filed 2/28/97, effective 4/1/97.]

PART 1.1 - SUBMITTING BILLS

WAC 296-23A-0150 How must hospitals submit bills for hospital services? Hospitals must submit bills for hospital services using the current National Uniform Billing Form (billing form), or electronically using department file format specifications. Providers using the paper billing form must follow both the billing instructions provided by the department and the Washington state version of the *National Uniform Billing Data Element Specifications* as adopted by the National Uniform Billing Committee.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0150, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0160 How must hospitals submit charges for ambulance and professional services? Hospitals must submit charges for ambulance services and professional services provided by hospital staff physicians on the Health Insurance Claim Form, HCFA 1500 using the provider account number(s) assigned by the department for these services. Hospitals using any of the electronic transfer options must follow department instructions for electronic billing.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0160, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0170 How must hospitals bill the department or self-insurer for preadmission services? Preadmission services performed in a hospital outpatient setting within one day prior to hospital admission must be billed as hospital inpatient services.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0170, filed 2/28/97, effective 4/1/97.]

PART 1.2 - SUPPORTING DOCUMENTATION REQUIREMENTS

WAC 296-23A-0180 What supporting documentation must hospitals send for hospital services? Hospitals must send the following supporting documentation for hospital services:

- Admission history and physical examination
- Discharge summary for stays over forty-eight hours
- Emergency room reports
- Operative reports
- Anesthesia records
- Other documentation as requested by the department or self-insurer.

Hospitals must place the worker's name and claim number on the upper right-hand corner of each page of supporting documentation submitted.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0180, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0190 Where must hospitals send supporting documentation for hospital services for state fund claims? Do not submit supporting documentation with the bill for services. Hospitals must send supporting documentation for hospital services for state fund claims to:

Department of Labor and Industries
Claims Section
P.O. Box 44291
Olympia, WA 98504-4291

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0190, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0195 When must providers using electronic medium submit supporting documentation? Providers using any of the electronic transfer options provided by the department must send the department or self-insurer the required supporting documentation within thirty calendar days of the date billing information was sent to the department on electronic medium. Providers must comply with the electronic billing instructions supplied by the department regarding the submission of hospital bill documentation.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0195, filed 2/28/97, effective 4/1/97.]

PART 2 - PAYMENT METHODS FOR HOSPITAL SERVICES

WAC 296-23A-0200 How does the department pay for hospital inpatient services? The department will pay for hospital inpatient services according to the following table:

Hospital Type or Location	*Do Diagnosis Related Group (DRG) payment methods apply?*	*Do per diem payment methods apply?*	*Do percent of allowed charges (POAC) payment methods apply to hospital inpatient services?*
Children's Hospitals	No	No	Yes, paid 100% of allowed charges
Chronic Pain Management Program	Exempt, paid per department agreement.	Exempt, paid per department agreement.	Exempt, paid per department agreement.
Health Maintenance Organizations	No	No	Yes, paid 100% of allowed charges
Military	No	No	Yes, paid 100% of allowed charges
Veterans Administration	No	No	Yes, paid 100% of allowed charges
State psychiatric facility	No	No	Yes, paid 100% of allowed charges
Hospitals not in Oregon, Idaho or Washington	No	No	Yes, paid 97% of allowed charges
Oregon and Idaho	No	No	Yes, paid the Washington statewide average POAC factor
Washington rural (Peer Group A)	No	Yes, statewide per diem rates apply for five DRG categories: Chemical dependency, psychiatric, rehabilitation, medical, and surgical DRGs	No
All other Washington hospitals	Yes	Yes, state-wide average per diem rates apply for designated categories: Chemical dependency, psychiatric, rehabilitation, low volume medical, and low volume surgical DRGs	Yes, applies to low cost outlier payments and high cost outlier payments above the high cost outlier threshold

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0200, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0210 How do self-insurers pay for hospital inpatient services? Self-insurers will pay for hospital inpatient services using percent of allowed charges (POAC) factors, according to the following table:

Hospital Type or Location	*Do percent of allowed charges (POAC) payment methods apply to hospital inpatient services?*
Military, Veteran's Administration, Health Maintenance Organizations, State Psychiatric Facilities, Children's Hospitals	Yes, paid 100% of allowed charges
Hospitals not in Oregon, Idaho or Washington	Yes, paid 97% of allowed charges
Oregon and Idaho	Yes, paid the Washington state-wide average POAC factor
All other Washington hospitals	Yes, paid the hospital specific POAC factor

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0210, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0220 How does the department or self-insurer pay for hospital outpatient services? The department or self-insurer will pay for hospital outpatient services according to the following table:

Hospital Type or Location	*Do percent of allowed charges (POAC) payment methods apply?*	*Does the department's Medical Aid Rules and Fee Schedules apply to hospital outpatient radiology, laboratory, pathology an physical therapy services?*
Children's Hospitals	Yes, paid 100% of allowed charges	Yes
Chronic Pain Management Program	Exempt, paid per department agreement	Exempt, paid per department agreement

Hospital Type or Location	*Do percent of allowed charges (POAC) payment methods apply?*	*Does the department's Medical Aid Rules and Fee Schedules apply to hospital outpatient radiology, laboratory, pathology an physical therapy services?*
Health Maintenance Organizations	Yes, paid 100% of allowed charges	Yes
Military	Yes, paid 100% of allowed charges	No, paid 100% of allowed charges
Veterans Administration	Yes, paid 100% of allowed charges	No, paid 100% of allowed charges
State psychiatric facility	Yes, paid 100% of allowed charges	Yes
Hospitals not in Oregon, Idaho or Washington	Yes, paid 97% of allowed charges	No, paid 100% of allowed charges
Oregon and Idaho	Yes, paid the Washington statewide average POAC	Yes
Washington rural (Peer Group A)	Yes, applies to hospital outpatient services except radiology, laboratory, pathology and physical therapy	Yes
All other Washington hospitals	Yes, applies to hospital outpatient services except radiology, laboratory, pathology and physical therapy	Yes

Hospitals are reimbursed only for the technical component of rates listed in the fee schedules, for outpatient radiology, pathology and laboratory services.

See chapter 296-23 WAC for rules on radiology, pathology, laboratory, physical therapy and work hardening services.

See WAC 296-20-132 and 296-20-135 for information on the conversion factor used for hospital outpatient services.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0220, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0230 How does the department or self-insurer pay out-of-state hospitals for hospital services? The department or self-insurer pays out-of-state hospitals for hospital services using a percent of allowed charges (POAC) factor or department fee schedule. The POAC factor may differ for services performed in inpatient and outpatient settings. The department or self-insurer will pay out-of-state hospitals according to the following table:

Hospital Location (State)	*Hospital Outpatient Services*	*Hospital Inpatient Services*
Oregon and Idaho	Hospital outpatient radiology, pathology and laboratory, and physical therapy services are to be billed and will be paid using the appropriate Labor and Industries fee scheduled procedure codes. All other hospital outpatient services will be paid at the Washington state-wide average percent of allowed charges (POAC) factor.	Washington state-wide average percent of allowed charges (POAC) factor.
Hospitals not in Oregon, Idaho or Washington	Hospital outpatient radiology, pathology and laboratory, and physical therapy services are paid 100% of allowed charges. All other hospital outpatient services are paid 97% of allowed charges.	97% of allowed charges.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0230, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0240 How does the department define and pay a new hospital? New hospitals are those open for less than one year prior to the implementation of the department's most recent hospital payment rates. The department will pay new hospitals according to the following table:

Hospital Type or Location	*What Diagnosis Related Group (DRG) base price applies?*	*What Per Diem Payment Rates Apply?*	*What percent of allowed charges (POAC) factor applies?*
Oregon and Idaho	Exempt	Exempt	Washington state-wide average POAC

Hospital Type or Location	*What Diagnosis Related Group (DRG) base price applies?*	*What Per Diem Payment Rates Apply?*	*What percent of allowed charges (POAC) factor applies?*
Hospitals not in Oregon, Idaho, or Washington	Exempt	Exempt	Paid 97% of allowed charges
Military, Veterans Administration, State Psychiatric, Health Maintenance Organization, Children's,	Exempt	Exempt	Paid 100% of allowed charges
Chronic Pain Management Program	Exempt, paid per department agreement	Exempt, paid per department agreement	Exempt, Paid per department agreement
Washington Rural Hospital (Peer Group A)	Exempt	Washington state-wide average per diem rates	Washington state-wide average POAC
Other Washington Hospital	Weighted median case-mix adjusted average cost per case for Washington DRG hospitals, except major teaching hospitals	Washington state-wide average per diem rates	Washington state-wide average POAC

A new hospital will be paid using its hospital-specific POAC within three years of receiving a provider account number(s) from the department.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0240, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0250 Does a change in hospital ownership affect a hospital's payment rate? A change in ownership does not constitute the creation of a new hospital. If a hospital changes ownership, rates will remain the same as those payable to the previous owner.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0250, filed 2/28/97, effective 4/1/97.]

PART 2.1 - PERCENT OF ALLOWED CHARGES (POAC) PAYMENT METHODS AND POLICIES

WAC 296-23A-0300 When do percent of allowed charges (POAC) payment factors apply? The department may designate from time to time, those hospitals and hospital services to be paid using POAC factors.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0300, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0310 What is the method for calculating percent of allowed charges (POAC) factors? POAC factors are based on Medicare cost report data and are calculated by dividing adjusted operating expenses by adjusted patient revenues. The department will allow costs for graduate medical education and charity care. Allowable costs for charity care shall not exceed a maximum of two percent of the facility's total allowable costs. A hospital's POAC factor shall not exceed one hundred percent of allowed charges.

Payment rates are calculated by multiplying the POAC factor by the allowed charges.

Amount Paid = (POAC Factor) X (Allowed Charges)

Each hospital will be notified of their revised POAC factor thirty days prior to implementation. Incorrect data or erroneous calculations can be appealed in accordance with WAC 296-23A-0600.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0310, filed 2/28/97, effective 4/1/97.]

PART 2.2 - PER DIEM PAYMENT METHODS AND POLICIES

WAC 296-23A-0350 When do per diem rates apply? The department may designate from time to time, those hospitals and hospital services paid on a per diem basis. For example, the department may develop per diem rates for the following diagnosis-related-group (DRG) categories:

- Psychiatric;
- Rehabilitation;
- Substance abuse;
- Medical;
- Surgical; and
- Other categories as determined by the department.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0350, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0360 What is the method for calculating per diem rates? Per diem rates are calculated by dividing the total costs for all relevant cases in the historical data base by the total number of days. The total number of days is equal to the sum of the number of days for each relevant case. The number of days per case is equal to last date of service minus the first date of service. The department will allocate costs at the detailed revenue code level using Medicare cost report data and Medicare definitions for allowable costs. The department will allow costs for graduate medical education and charity care. Allowable costs for charity care shall not exceed a maximum of two percent of the facility's total allowable costs.

Payment rates are equal to the applicable per diem rate multiplied by the number of days allowed by the department. The department does not pay for the day of discharge. Payment shall not exceed allowed billed charges.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0360, filed 2/28/97, effective 4/1/97.]

PART 2.3 - DIAGNOSIS-RELATED-GROUP PAYMENT METHODS AND POLICIES

WAC 296-23A-0400 What is a "diagnosis-related-group" payment system? A diagnosis-related-group (DRG) system categorizes patients into clinically coherent and homogenous groups with respect to resource use. The department will use an all-patient grouper to perform the diagnostic categorization. To the extent feasible, where DRG relative weights meet acceptable reliability and validity standards, the department will use DRG per case rates for payment of hospital inpatient services.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0400, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0410 How does the department calculate diagnosis-related-group (DRG) relative weights? In calculating DRG relative weights, the department will:

(1) Allocate costs for hospital services at a detailed revenue code level using Medicare cost report data and Medicare definitions for allowable costs. The department will allow costs for graduate medical education and charity care. Allowable costs for charity care shall not exceed a maximum of two percent of the facility's total allowable costs.

(2) Classify department hospital admissions data and hospital discharge data in the Washington state department of health's comprehensive hospital abstract reporting system (CHARS), using an all-patient grouper.

(3) Establish relative weights from department of labor and industries' hospital admission data. If the department's data is not sufficient to calculate stable relative weights, the department may use hospital discharge data in the Washington state department of health's comprehensive hospital abstract reporting system (CHARS) or another appropriate data source.

(4) Exclude the following types of cases from DRG relative weight calculations: Transfers, statistical outliers, length of stay equal to zero, psychiatric, substance abuse and rehabilitation DRGs, out-of-state hospitals, other hospitals and services designated as exempt from DRG payment rates.

See WAC 296-23A-0470 and 296-23A-0480 for exclusions and exceptions to DRG payments for hospital services.

(5) Test each DRG statistically for adequacy of sample size to ensure that relative weights meet acceptable reliability and validity standards.

(6) Replace unstable department relative weights with stable CHARS derived relative weights.

(7) Standardize department and CHARS relative weights to a state-wide case-mix index of 1.0.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0410, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0420 How does the department determine the base price for hospital services paid using per case rates? The department determines the base price for hospital services paid using per case rates according to the following table:

Type of Hospital	*Base Price*
Major Teaching Hospital: Harborview Medical Center or University of Washington	Hospital-specific case-mix adjusted average cost per case
Other DRG Hospital	Weighted median case-mix adjusted average cost per case for DRG hospitals, except major teaching hospitals

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0420, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0430 How does the department calculate a hospital specific case-mix adjusted average cost per case? The department determines the case-mix adjusted average cost per case for each hospital by:

(1) Allocating costs for hospital services at a detailed revenue code level using Medicare cost report data and Medicare definitions for allowable costs. The department will allow costs for graduate medical education and charity care. Allowable costs for charity care shall not exceed a maximum of two percent of the facility's total allowable costs;

(2) Totaling the costs of all DRG cases;

(3) Dividing the total by the number of cases; and

(4) Then dividing that number by the hospital's case-mix index.

(5) Per case costs are indexed to the payment period for inflation and other factors.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0430, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0440 How does the department calculate the base price for DRG hospitals, except major teaching hospitals? The department calculates the base price for DRG hospitals, except major teaching hospitals by:

(1) Calculating each hospital's case-mix adjusted average cost per case;

(2) Weighting each hospital's case-mix adjusted average cost per case by the number of cases at that hospital;

(3) Determining the median (fiftieth percentile) of the list of case-mix adjusted average costs per case.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0440, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0450 What cases does the department exclude from base price calculations? The department excludes the following types of cases from base price calculations:

- Transfers;
- Statistical outliers;
- Length of stay equal to zero;
- Psychiatric, substance abuse and rehabilitation DRGs;
- Out-of-state hospitals; and
- Other hospitals and services designated as exempt from DRG payment rates.

See WAC 296-23A-0470 and 296-23A-0480 for exclusions and exceptions to DRG payments for hospital services.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0450, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0460 How does the department calculate the diagnosis-related-group (DRG) per case payment rate for a particular hospital? The DRG per case rate for a particular hospital is calculated by multiplying the assigned DRG relative weight for that admission by the applicable base price.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0460, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0470 Which exclusions and exceptions apply to diagnosis-related-group (DRG) payments for hospital services? The following exclusions and exceptions apply to DRG payments for hospital services:

- Psychiatric, rehabilitation, and chemical dependency (substance abuse) services will be excluded from payment by DRG rates. These services will be paid using per diem payment rates.
- Ambulance and air transportation services are excluded from DRG payments.
- Bills assigned to a DRG that is defined as ungroupable will be denied.
- Bills where the principal diagnosis is invalid as a discharge diagnosis will be denied.
- Bills where the injured worker has been admitted and discharged in less than twenty-four hours will be reviewed by the department and may be paid as hospital outpatient services.
- The department may choose to exclude other DRGs from DRG payment rates due to concerns about access, case volume or other considerations. These services will be paid using the applicable percent of allowed charges (POAC) factor and per diem rates.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0470, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0480 Which hospitals does the department exclude from diagnosis-related-group (DRG) payments? The following hospitals are excluded from DRG payments:

- Military, Veterans Administration, state psychiatric facilities, health maintenance organizations (HMO), and children's hospitals will be paid their allowed charges.
- Department-approved chronic pain management programs will be paid according to department agreement or contract.
- Peer Group A hospitals, as defined by the department of health, will be paid using per diem rates.
- Hospitals located outside of Washington will be paid a percent of allowed charges (POAC).
- Other hospitals, as determined by the department, may be excluded from DRG reimbursement rates due to concerns about access, case volume or other considerations. These facilities will be paid using the applicable POAC factor and per diem rates.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0480, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0490 Which hospital services does the department include in diagnosis-related-group (DRG) rates? Unless otherwise specified, the department will include in the DRG rate all hospital services provided to an injured worker admitted to a hospital. Hospital services must be medically necessary for the treatment of the accepted occupational disease or injury.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0490, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0500 When does a case qualify for high outlier status? Outlier payments apply only to diagnosis-related-group (DRG) reimbursed cases with unusually high or low costs. Outlier status does not apply to cases paid using a percent of allowed charges (POAC) factor or per diem rates. To have a bill considered for outlier status, a hospital must enter "61" for the condition code, block 35 of the hospital billing form.

A case is considered a high cost outlier if the costs for the case exceed the outlier threshold for the assigned diagnosis-related-group. The costs for a case are determined by multiplying the allowed charges for the case by the hospital specific POAC factor. The threshold used to define a high outlier case is the greater of a dollar threshold of twelve thousand dollars or two standard deviations above the state-wide average cost for each DRG paid by the department.

The dollar threshold may be adjusted annually for inflation or other factors as determined by the department. The standard deviations for DRGs will be computed from all relevant cases in the historical data base, excluding statistical outliers.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0500, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0520 How does the department pay for high outlier cases? Cases defined as high cost outliers will be reimbursed at the diagnosis-related-group (DRG) payment rate plus one hundred percent of costs in excess of the threshold. Costs are determined by multiplying the allowed charges by the hospital specific percent of allowed charges (POAC) factor.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0520, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0530 How does a case qualify for low outlier status? To qualify as a low outlier, the allowed charges multiplied by that hospital's percent of allowed charges (POAC) factor must be less than ten percent of the state-wide diagnosis-related-group (DRG) rate or five hundred dollars whichever is greater. The standard deviations for DRGs will be computed from all relevant cases in the historical data base, excluding statistical outliers.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0530, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0540 How does the department pay for low outlier cases? Low outlier cases are paid by multi-

plying each hospital's specific percent of allowed charges (POAC) factor by the allowed charges for the case.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0540, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0550 Under what circumstances will the department pay for interim bills? The department will deny interim bills which are assigned to diagnosis-related-groups (DRGs) paid per case rates by the department.

If an interim bill is coded as a diagnosis-related-group (DRG) not paid per case rates by the department, then the bill will be paid using the applicable percent of allowed charges (POAC) factor and per diem rates. If a subsequent bill coded as a DRG paid per case rates by the department, for the same injured worker, has a first date of service within seven days of the last date of service of the previous bill, then the bills will be subject to review and adjustment by the department.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0550, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0560 How does the department define and pay for hospital readmissions? The department will review hospital readmissions occurring within seven days of discharge and will determine whether the second admission resulted from premature discharge. Payment for services associated with readmission will depend upon the review. For example:

- If the second admission is determined unnecessary, reimbursement may be denied.
- If the admission was avoidable, the two admissions may be combined and a single diagnosis-related-group (DRG) payment made.
- If two different DRG assignments are involved, reimbursement for the appropriate DRG will be based upon review of the case.
- Readmissions involving different hospitals will be reviewed by the department and may be paid using the payment method for transfers.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0560, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0570 How does the department define a transfer case? A transfer case is defined as an injured worker's admission to another acute care hospital within seven days of that worker's previous discharge. All bills for transfer cases will be subject to review by the department and payment will be determined based on that analysis. The transferring hospital may qualify for high and low outlier status.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0570, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0575 How does the department pay a transferring hospital for a transfer case? When the stay at the transferring hospital is a diagnosis-related-group (DRG) paid by the department, and does not qualify as a low outlier, the transferring hospital is paid a graduated per diem rate for each day of care allowed by the department. If the case qualifies as a low cost outlier, the hospital will be paid the graduated per diem amount or low cost outlier payment amount, whichever is lower. The per diem rate is determined by dividing that hospital's rate for the appropriate DRG by that DRG's average length of stay as determined by the department. Payment for the first day of service will be two times the per diem rate. For subsequent allowed days, the basic per diem rate will be paid up to the full DRG payment amount. Unless the case qualifies as a high outlier, payment to the transferring hospital will not exceed the appropriate DRG rate that would have been paid had the injured worker not been transferred to another hospital.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0575, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0580 How does the department pay the receiving hospital for a transfer case? The hospital receiving a transfer will be paid according to the department's review of the case. If the receiving hospital's stay is a diagnosis-related-group (DRG) paid by the department, then the hospital will receive the appropriate per case and outlier payments. If the case is not a DRG paid by the department, then the hospital is paid using applicable percent of allowed charges (POAC) factor or per diem rates.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0580, filed 2/28/97, effective 4/1/97.]

PART 3 - REQUESTING A HOSPITAL RATE ADJUSTMENT

WAC 296-23A-0600 How can a hospital request a rate adjustment? Hospitals may submit a request for adjustment to their rate if:

- The rate methodology or principles of reimbursement established in department publications were incorrectly applied, or
- Incorrect data or erroneous calculations were used in the establishment of the hospital's rate.

In all circumstances, requests for adjustments to rates must show how the rate adjustment was calculated and contain sufficient detail to permit an audit. Requests must specify the nature and the amount of the adjustment sought. The burden of proof is on the requesting hospital.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0600, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0610 Where must hospitals submit requests for rate adjustments? Hospitals must submit requests for rate adjustments in writing to:

Department of Labor and Industries
Health Services Analysis
Request for Hospital Rate Adjustment
P.O. Box 44322
Olympia, Washington 98504-4322.

Requests must be received within sixty days after the facility receives notice of its payment rates.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0610, filed 2/28/97, effective 4/1/97.]

WAC 296-23A-0620 What action will the department take upon receipt of a request for a rate adjustment?

Upon receipt of the request, the department shall determine the need for a conference with the hospital and will contact the facility to arrange a conference if needed. The conference, if needed, must be held within sixty days of the department's receipt of the request.

Within thirty calendar days of the receipt of the request for review or the date of the conference, the department shall notify the facility of the action to be taken by the department.

If the department's review of the material submitted by the hospital results in a favorable determination for the hospital, the department will modify the hospital's payment rate(s). The revised rate(s) will apply to all bills with a date of admission on or after a date chosen by the department. The chosen date will be within one hundred twenty days of the department's and hospital's agreement to modify the rate(s).

If the department's review of the material submitted by the hospital results in an unfavorable determination for the hospital, the hospital may file an appeal with the board of industrial insurance appeals.

[Statutory Authority: RCW 51.04.020, 51.04.030 and 51.36.080. 97-06-066, § 296-23A-0620, filed 2/28/97, effective 4/1/97.]

Chapter 296-24 WAC
GENERAL SAFETY AND HEALTH STANDARDS

WAC

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296-24-20700 Appendix A to WAC 296-24-195.
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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

296-24-060 First-aid training and certification. [Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-060, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240. 81-13-053 (Order 81-9), § 296-24-060, filed 6/17/81. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-060, filed 11/13/80; 78-12-017 (Order 78-22), § 296-24-060, filed 11/13/78; Order 74-27, § 296-24-060, filed 5/7/74; Order 73-5, § 296-24-060, filed 5/9/73 and Order 73-4, § 296-24-060, filed 5/7/73.] Repealed by 98-06-061, filed 3/2/98, effective 6/1/98. Statutory Authority: Chapter 49.17 RCW.

296-24-065 First-aid kit. [Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-065, filed 7/20/94, effective 9/20/94; 91-03-044 (Order 90-18), § 296-24-065, filed 1/10/91, effective 2/12/91; Order 74-27, § 296-24-065, filed 5/7/74; Order 73-5, § 296-24-065, filed 5/9/73 and Order 73-4, § 296-24-065, filed 5/7/73.] Repealed by 98-06-061, filed 3/2/98, effective 6/1/98. Statutory Authority: Chapter 49.17 RCW.

296-24-067 First-aid station. [Order 73-5, § 296-24-067, filed 5/9/73 and Order 73-4, § 296-24-067, filed 5/7/73.] Repealed by 98-06-061, filed 3/2/98, effective 6/1/98. Statutory Authority: Chapter 49.17 RCW.

296-24-070 First-aid room. [Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240. 81-13-053 (Order 81-9), § 296-24-070, filed 6/17/81; Order 73-5, § 296-24-070, filed 5/9/73 and Order 73-4, § 296-24-070, filed 5/7/73.] Repealed by 98-06-061, filed 3/2/98, effective 6/1/98. Statutory Authority: Chapter 49.17 RCW.

296-24-081 Respiratory protection. [Order 73-5, § 296-24-081, filed 5/9/73 and order 73-4, § 296-24-081, filed 5/7/73.] Repealed by 81-16-016 (order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240. Later promulgation, see chapter 296-62 WAC.

296-24-08101 Permissible practice. [Order 73-5, § 296-24-08101, filed 5/9/73 and Order 73-4, § 296-24-08101, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-08103 Requirements for a minimal acceptable program. [Statutory Authority: RCW 49.17.040, 49.17.050, and 49.17.240. 80-11-010 (Order 80-14), § 296-24-08103, filed 8/8/80; Order 73-5, § 296-24-08103, filed 5/9/73 and Order 73-4, § 296-24-08103, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-08105 Selection of respirators. [Order 73-5, § 296-24-08105, filed 5/9/73 and Order 73-4, § 296-24-08105, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-08107 Air quality. [Statutory Authority: RCW 49.17.040, 49.17.050, and 49.17.240. 80-11-010 (Order 80-14), § 296-24-08107, filed 8/8/80; Order 73-5, § 296-24-08107, filed 5/9/73 and Order 73-4, § 296-24-08107, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-08109 Use of respirators. [Statutory Authority: RCW 49.17.040, 49.17.050, and 49.17.240. 80-11-010 (Order 80-14), § 296-24-08109, filed 8/8/80; Order 73-5, § 296-24-08109, filed 5/9/73 and Order 73-4, § 296-24-08109, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-08111 Maintenance and care of respirators. [Order 73-5, § 296-24-08111, filed 5/9/73 and Order 73-4, § 296-24-08111, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 And 49.17.240.

296-24-08113 Identification of gas mask canisters. [Order 73-5, § 296-24-08113, filed 5/9/73 and Order 73-4, § 296-24-08113, filed 5/7/73.] Repealed by 81-16-016 (Order 81-19), filed 7/27/81. Statutory Authority: RCW 49.17.040, 49.17.050 and 49.17.240.

296-24-12013 Lunchrooms. [Order 73-5, § 296-24-12013, filed 5/9/73 and Order 73-4, § 296-24-12013, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-12015 Food handling. [Order 73-5, § 296-24-12015, filed 5/9/73 and Order 73-4, § 296-24-12015, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-130 Nonwater carriage disposal systems. [Order 73-5, § 296-24-130, filed 5/9/73 and Order 73-4, § 296-24-130, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 And 49.17.050.

296-24-13001 Acceptable industrial disposal systems. [Order 73-5, § 296-24-13001, filed 5/9/73 and Order 73-4, § 296-24-13001, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13003 Privy specifications. [Order 73-5, § 296-24-13003, filed 5/9/73 and Order 73-4, § 296-24-13003, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13005 Chemical toilet specifications. [Order 73-5, § 296-24-13005, filed 5/9/73 and Order 73-4, § 296-24-13005, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13007 Seepage pit construction. [Order 73-5, § 296-24-13007, filed 5/9/73 and Order 73-4, § 296-24-13007, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13009 Combustion toilet. [Order 73-5, § 296-24-13009, filed 5/9/73 and Order 73-4, § 296-24-13009, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13011 Recirculating toilet specifications. [Order 73-5, § 296-24-13011, filed 5/9/73 and Order 73-4, § 296-24-13011, filed 5/9/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13013 Portable toilet construction. [Order 73-5, § 296-24-13013, filed 5/9/73 and Order 73-4, § 296-24-13013, filed 5/7/73.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-13503 Color specifications. [Order 73-5, § 296-24-13503, filed 5/9/73 and Order 73-4, § 296-24-13503, filed 5/7/73.] Repealed by 83-15-017 (Order 83-19), filed 7/13/83, effective 9/12/83. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-170 Cooperage machinery. [Order 73-5, § 296-24-170, filed 5/9/73 and Order 73-4, § 296-24-170, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17001 Definitions. [Order 73-5, § 296-24-17001, filed 5/9/73 and Order 73-4, § 296-24-17001, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17003 Heading bolt sawing machine. [Order 73-5, § 296-24-17003, filed 5/9/73 and Order 73-4, § 296-24-17003, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17005 Bolt, equalizer, stave, and heading saws (tilting table style). [Order 73-5, § 296-24-17005, filed 5/9/73 and Order 73-4, § 296-24-17005, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17007 Barrel stave saws (cylindrical saws). [Order 73-5, § 296-24-17007, filed 5/9/73 and Order 73-4, § 296-24-17007, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17009 Hand-fed ripsaws. [Order 73-5, § 296-24-17009, filed 5/9/73 and Order 73-4, § 296-24-17009, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17011 Self-feed stave and heading equalizer saws. [Order 73-5, § 296-24-17011, filed 5/9/73 and Order 73-4, § 296-24-17011, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17013 Stave and heading planers (single and double heads). [Order 73-5, § 296-24-17013, filed 5/9/73 and Order 73-4, § 296-24-17013, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17015 Stave jointing machines (wheel). [Order 73-5, § 296-24-17015, filed 5/9/73 and Order 73-4, § 296-24-17015, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17017 Heading jointer and doweler machine (wheel). [Order 73-5, § 296-24-17017, filed 5/9/73 and Order 73-4, § 296-24-17017, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17019 Heading rounder. [Order 73-5, § 296-24-17019, filed 5/9/73 and Order 73-4, § 296-24-17019, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17021 Power windlass machine. [Order 73-5, § 296-24-17021, filed 5/9/73 and Order 73-4, § 296-24-17021, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17023 Crozing machine (stationary heads). [Order 73-5, § 296-24-17023, filed 5/9/73 and Order 73-4, § 296-24-17023, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17025 Heading-up machine. [Order 73-5, § 296-24-17025, filed 5/9/73 and Order 73-4, § 296-24-17025, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17027 Head charring machine. [Order 73-5, § 296-24-17027, filed 5/9/73 and Order 73-4, § 296-24-17027, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17029 Bilge truss hoop ring removing machine. [Order 73-5, § 296-24-17029, filed 5/9/73 and Order 73-4, § 296-24-17029, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17031 Hoop elevators and conveyors. [Order 73-5, § 296-24-17031, filed 5/9/73 and Order 73-4, § 296-24-17031, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17033 Barrel sanding machine. [Order 73-5, § 296-24-17033, filed 5/9/73 and Order 73-4, § 296-24-17033, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17035 Hoop drivers and trussers. [Order 73-5, § 296-24-17035, filed 5/9/73 and Order 73-4, § 296-24-17035, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17037 Head sanding machine. [Order 73-5, § 296-24-17037, filed 5/9/73 and Order 73-4, § 296-24-17037, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17039 Hand jointer. [Order 73-5, § 296-24-17039, filed 5/9/73 and Order 73-4, § 296-24-17039, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17041 Hoop punching and coiling machine. [Order 73-5, § 296-24-17041, filed 5/9/73 and Order 73-4, § 296-24-17041, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17043 Hoop riveting machine. [Order 73-5, § 296-24-17043, filed 5/9/73 and Order 73-4, § 296-24-17043, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17045 Hoop flaring and expanding machine. [Order 73-5, § 296-24-17045, filed 5/9/73 and Order 73-4, § 296-24-17045, filed 5/7/73.] Repealed by 82-13-045 (Order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-17047 Inspection and maintenance of cooperage machinery. [Order 73-5, § 296-24-17047, filed 5/9/73 and order 73-4, § 296-24-17047, filed 5/7/73.] Repealed by 82-13-045 (order 82-22), filed 6/11/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

296-24-19515 Reports of point of operation injuries—Mechanical power presses. [Order 76-6, § 296-24-19515, filed 3/1/76.] Repealed by 88-14-108 (Order 88-11), filed 7/6/88. Statutory Authority: Chapter 49.17 RCW.

296-24-220 Indoor general storage. [Order 73-5, § 296-24-220, filed 5/9/73 and Order 73-4, § 296-24-220, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22001 Definitions. [Order 73-5, § 296-24-22001, filed 5/9/73 and Order 73-4, § 296-24-22001, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22003 General requirements. [Order 73-5, § 296-24-22003, filed 5/9/73 and Order 73-4, § 296-24-22003, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22005 Piling procedures and precautions. [Order 73-5, § 296-24-22005, filed 5/9/73 and Order 73-4, § 296-24-22005, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22007 Fire protection requirements. [Order 73-5, § 296-24-22007, filed 5/9/73 and Order 73-4, § 296-24-22007, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22009 Mechanical handling equipment. [Order 73-5, § 296-24-22009, filed 5/9/73 and Order 73-4, § 296-24-22009, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-22011 Building service equipment. [Order 73-5, § 296-24-22011, filed 5/9/73 and Order 73-4, § 296-24-22011, filed 5/7/73.] Repealed by Order 74-27, filed 5/7/74.

296-24-590 Portable fire suppression equipment—Portable fire extinguishers. [Order 73-5, § 296-24-590, filed 5/9/73 and Order 73-4, § 296-24-590, filed 5/7/73.] Repealed by 88-11-021 (Order 88-04), filed 5/11/88. Statutory Authority: Chapter 49.17 RCW.

296-24-59001 General requirements. [Order 73-5, § 296-24-59001, filed 5/9/73 and Order 73-4, § 296-24-59001, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-59003 Selection of extinguishers. [Order 74-27, § 296-24-59003, filed 5/7/74; Order 73-5, § 296-24-59003, filed 5/9/73 and Order 73-4, § 296-24-59003, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-59005 Distribution of portable fire extinguishers. [Order 73-5, § 296-24-59005, filed 5/9/73 and Order 73-4, § 296-24-59005, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-59007 Inspection, maintenance, and hydrostatic tests. [Order 74-27, § 296-24-59007, filed 5/7/74; Order 73-5, § 296-24-59007, filed 5/9/73 and Order 73-4, § 296-24-59007, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24),

filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-600 Standpipe and hose systems. [Order 73-5, § 296-24-600, filed 5/9/73 and Order 73-4, § 296-24-600, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60001 General requirements. [Order 73-5, § 296-24-60001, filed 5/9/73 and Order 73-4, § 296-24-60001, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60003 Hose outlets. [Order 74-27, § 296-24-60003, filed 5/7/74; Order 73-5, § 296-24-60003, filed 5/9/73 and Order 73-4, § 296-24-60003, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60005 Water supplies. [Order 73-5, § 296-24-60005, filed 5/9/73 and Order 73-4, § 296-24-60005, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60007 Tests and maintenance. [Order 73-5, § 296-24-60007, filed 5/9/73 and Order 73-4, § 296-24-60007, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-605 Fixed fire suppression equipment—Automatic sprinkler systems. [Order 73-5, § 296-24-605, filed 5/9/73 and Order 73-4, § 296-24-605, filed 5/7/73.] Repealed by 88-11-021 (Order 88-04), filed 5/11/88. Statutory Authority: Chapter 49.17 RCW.

296-24-60501 General requirements. [Order 73-5, § 296-24-60501, filed 5/9/73 and Order 73-4, § 296-24-60501, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60503 Fire department connections. [Order 73-5, § 296-24-60503, filed 5/9/73 and Order 73-4, § 296-24-60503, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60505 Sprinkler alarms. [Order 73-5, § 296-24-60505, filed 5/9/73 and Order 73-4, § 296-24-60505, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60507 Maintenance of sprinkler system. [Order 76-6, § 296-24-60507, filed 3/1/76; Order 73-5, § 296-24-60507, filed 5/9/73 and Order 73-4, § 296-24-60507, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-60509 Sprinkler head clearance. [Order 73-5, § 296-24-60509, filed 5/9/73 and Order 73-4, § 296-24-60509, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-615 Fixed dry chemical extinguishing systems. [Order 73-5, § 296-24-615, filed 5/9/73 and Order 73-4, § 296-24-615, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-61501 General requirements. [Order 73-5, § 296-24-61501, filed 5/9/73 and Order 73-4, § 296-24-61501, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-61503 Alarms and indicators. [Order 74-27, § 296-24-61503, filed 5/7/74; Order 73-5, § 296-24-61503, filed 5/9/73 and Order 73-4, § 296-24-61503, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-61505 Inspection and maintenance. [Order 76-6, § 296-24-61505, filed 3/1/76; Order 73-5, § 296-24-61505, filed 5/9/73 and Order 73-4, § 296-24-61505, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-620 Carbon dioxide extinguishing systems. [Order 73-5, § 296-24-620, filed 5/9/73 and Order 73-4, § 296-24-620, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-62001 General requirements. [Order 73-5, § 296-24-62001, filed 5/9/73 and Order 73-4, § 296-24-62001, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-62003 Inspection and maintenance. [Order 74-27, § 296-24-62003, filed 5/7/74; Order 73-5, § 296-24-62003, filed 5/9/73 and Order 73-4, § 296-24-62003, filed 5/7/73.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-625 Local fire alarm signaling systems. [Order 74-27, § 296-24-625, filed 5/7/74.] Repealed by 87-24-051 (Order 87-24), filed 11/30/87. Statutory Authority: Chapter 49.17 RCW.

296-24-662 Safety requirements for explosive-actuated fastening tools. [Order 73-5, § 296-24-662, filed 5/9/73 and Order 73-4, § 296-24-662, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66201 Scope. [Order 73-5, § 296-24-66201, filed 5/9/73 and Order 73-4, § 296-24-66201, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66203 Purpose. [Order 73-5, § 296-24-66203, filed 5/9/73 and Order 73-4, § 296-24-66203, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66205 Definitions. [Order 73-5, § 296-24-66205, filed 5/9/73 and Order 73-4, § 296-24-66205, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66207 Design requirements—High velocity tools. [Order 73-5, § 296-24-66207, filed 5/9/73 and Order 73-4, § 296-24-66207, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66209 Low velocity piston tools. [Order 73-5, § 296-24-66209, filed 5/9/73 and Order 73-4, § 296-24-66209, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66211 Hammer-operated piston tools—Low velocity type. [Order 73-5, § 296-24-66211, filed 5/9/73 and Order 73-4, § 296-24-66211, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66213 Requirements for loads and fasteners. [Order 73-5, § 296-24-66213, filed 5/9/73 and Order 73-4, § 296-24-66213, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66215 Approvals. [Order 73-5, § 296-24-66215, filed 5/9/73 and Order 73-4, § 296-24-66215, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66217 Operation. [Order 73-5, § 296-24-66217, filed 5/9/73 and Order 73-4, § 296-24-66217, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66219 Servicing. [Order 73-5, § 296-24-66219, filed 5/9/73 and Order 73-4, § 296-24-66219, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66221 Qualification and certification of operators. [Order 73-5, § 296-24-66221, filed 5/9/73 and Order 73-4, § 296-24-66221, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66223 Storage of explosive-actuated tools, instruction books, cleaning kits, and tools. [Order 73-5, § 296-24-66223, filed 5/9/73 and Order 73-4, § 296-24-66223, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-66225 Use low velocity tools when possible. [Order 73-5, § 296-24-66225, filed 5/9/73 and Order 73-4, § 296-24-66225, filed 5/7/73.] Repealed by 79-08-115 (Order 79-9), filed 7/31/79. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240.

296-24-677 Ventilation. [Order 73-5, § 296-24-677, filed 5/9/73 and Order 73-4, § 296-24-677, filed 5/7/73.] Repealed by 98-02-006, filed 12/26/97, effective 3/1/98. Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060.

296-24-67701 Scope. [Order 73-5, § 296-24-67701, filed 5/9/73 and Order 73-4, § 296-24-67701, filed 5/7/73.] Repealed by 98-02-006, filed 12/26/97, effective 3/1/98. Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060.

296-24-87003	General requirements. [Order 76-6, § 296-24-87003, filed 3/1/76; Order 73-5, § 296-24-87003, filed 5/9/73 and Order 73-4, § 296-24-87003, filed 5/7/73.] Repealed by 90-09-026 (Order 90-01), filed 4/10/90, effective 5/25/90. Statutory Authority: Chapter 49.17 RCW.
296-24-87005	Type F powered platforms. [Order 76-6, § 296-24-87005, filed 3/1/76; Order 73-5, § 296-24-87005, filed 5/9/73 and Order 73-4, § 296-24-87005, filed 5/7/73.] Repealed by 90-09-026 (Order 90-01), filed 4/10/90, effective 5/25/90. Statutory Authority: Chapter 49.17 RCW.
296-24-87007	Type T powered platforms. [Order 73-5, § 296-24-87007, filed 5/9/73 and Order 73-4, § 296-24-87007, filed 5/7/73.] Repealed by 90-09-026 (Order 90-01), filed 4/10/90, effective 5/25/90. Statutory Authority: Chapter 49.17 RCW.
296-24-950	Electrical—Application. [Order 74-27, § 296-24-950, filed 5/7/74.] Repealed by 83-24-013 (Order 83-34), filed 11/30/83. Statutory Authority: RCW 49.17.040 and 49.17.050.
296-24-955	National electrical code. [Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-015 (Order 80-21), § 296-24-955, filed 11/13/80; 78-12-017 (Order 78-22), § 296-24-955, filed 11/13/78; Order 77-12, § 296-24-955, filed 7/11/77; Order 74-27, § 296-24-955, filed 5/7/74.] Repealed by 82-08-026 (Order 82-10), filed 3/30/82. Statutory Authority: RCW 49.17.040 and 49.17.050.

PART A-1
GENERAL, EDUCATIONAL, MEDICAL AND FIRST-AID REQUIREMENTS

WAC 296-24-001 Foreword. This chapter has been compiled with the purpose of consolidating all safety rules of general application into one chapter of the Washington Administrative Code, by the promulgation of the rules contained herein. It is also the intent that the safety rules of the Washington state department of labor and industries, will be at least as effective as those adopted by the U.S. Department of Labor and administered by the Occupational Safety and Health Administration as published in the Code of Federal Regulations. The department is incorporating many of the existing safety rules of general application and adding new rules under this chapter.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-001, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-001, filed 5/9/73 and Order 73-4, § 296-24-001, filed 5/7/73.]

WAC 296-24-003 Subsections, subdivisions, items, subitems, and segments. (1) That portion of section numeration appearing after the chapter designation appears in either a three digit or a five digit format (e.g. 296-24-330 and 296-24-33002). The final two digits of the section number are implied decimal extensions of the first three digits and represent a further division of the three digit enumeration.

(2) Sections of this chapter may be divided into subsections (1), (2), (3), etc., which may in turn be divided into subdivisions (a), (b), (c), etc., which may be further divided into items (i), (ii), (iii), etc., which may be further divided into subitems (A), (B), (C), etc., which may be further divided into segments (I), (II), (III), etc., all according to the following hierarchy, e.g.

Sections	296-24-330 and 296-24-33002
Subsections	(1) (2)
Subdivisions	(a) (b)
Items	(i) (ii)
Subitems	(A) (B)
Segments	(I) (II)

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-003, filed 11/14/88; Order 76-6, § 296-24-003, filed 3/1/76; Order 73-5, § 296-24-003, filed 5/9/73 and Order 73-4, § 296-24-003, filed 5/7/73.]

WAC 296-24-005 Purpose and scope. The rules included in this chapter apply throughout the state of Washington, to any and all work places under the jurisdiction of the department of labor and industries. These rules are minimum safety requirements with which all industries must comply. Special industry rules which will complement or augment rules contained in this chapter, appear as vertical standards in other chapters of Title 296 WAC. By adherence to such rules industrial accidents may be eliminated or minimized.

[Order 73-5, § 296-24-005, filed 5/9/73 and Order 73-4, § 296-24-005, filed 5/7/73.]

WAC 296-24-006 Equipment approval by nonstate agency or organization. Whenever a provision of this chapter states that only that equipment or those processes approved by an agency or organization other than the department of labor and industries, such as the Underwriters Laboratories or the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH), shall be utilized, that provision shall be construed to mean that approval of such equipment or process by the designated agency or group shall be prima facie evidence of compliance with the provision of this chapter.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-006, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-006, filed 5/9/73 and Order 73-4, § 296-24-006, filed 5/7/73.]

WAC 296-24-007 Incorporation of standards of national organization. Whenever a provision of this chapter incorporates by reference a national code or portion thereof which has been adopted by and is currently administered by another state agency, compliance with those provisions adopted and administered by such other state agency, if from a more recent edition of such national code, will be deemed to be prima facie evidence of compliance with the provisions of this chapter.

The specific standard(s), rule(s) or regulation(s) referenced in Title 296 WAC are available for review through local department of labor and industries offices. The standards are also available through the local library system or directly from the issuing organization.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-007, filed 9/30/94, effective 11/20/94; Order 73-5, § 296-24-007, filed 5/9/73 and Order 73-4, § 296-24-007, filed 5/7/73.]

WAC 296-24-008 Incorporation of standards of federal agency. (1) Whenever a provision of this chapter incorporates therein provisions of the Code of Federal Regulations (CFR) or any other regulations adopted by an agency of the federal government, that provision of this chapter shall be construed to mean that compliance with such regulations shall be prima facie evidence of compliance with the provisions of this chapter.

(2) Whenever a provision of this chapter incorporates therein provisions of the Code of Federal Regulations, the provisions so incorporated shall be those in effect on the date of effectiveness of this chapter, unless the content of the incorporating section specifies otherwise.

[Order 73-5, § 296-24-008, filed 5/9/73 and Order 73-4, § 296-24-008, filed 5/7/73.]

WAC 296-24-010 Variance and procedure. Conditions may exist in operations that a state standard will not have practical use. The director may issue a variance from the requirements of the standard when another means of providing equal protection is provided.

Applications for variances will be reviewed and investigated by the department. Variances granted shall be limited to the specific case or cases covered in the application and may be revoked for cause. The variance shall remain prominently posted on the premises while in effect.

Variance application forms may be obtained from the department upon request. Requests for variances from safety and health standards shall be made in writing to the director or the assistant director, Department of Labor and Industries, Post Office Box 44600, Olympia, Washington 98504-4600. (Reference RCW 49.17.080 and 49.17.090.)

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-010, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-010, filed 11/22/91, effective 12/24/91; Order 74-27, § 296-24-010, filed 5/7/74; Order 73-5, § 296-24-010, filed 5/9/73 and Order 73-4, § 296-24-010, filed 5/7/73.]

WAC 296-24-012 Definitions applicable to all sections of this chapter.

Note: Meaning of words. Unless the context indicates otherwise, words used in this chapter shall have the meaning given in this section.

(1) "Approved" means approved by the director of the department of labor and industries or his/her authorized representative: Provided, however, That should a provision of this chapter state that approval by an agency or organization other than the department of labor and industries is required, such as Underwriters' Laboratories or the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH), the provisions of WAC 296-24-006 shall apply.

(2) "Authorized person" means a person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the job site.

(3) "Competent person" means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective action to eliminate them.

(4) "Department" means the department of labor and industries.

(5) "Director" means the director of the department of labor and industries, or his/her designated representative.

(6) "Employer" means any person, firm, corporation, partnership, business trust, legal representative, or other business entity which engages in any business, industry, profession, or activity in this state and employs one or more employees or who contracts with one or more persons, the essence of which is the personal labor of such person or persons and includes the state, counties, cities, and all municipal corporations, public corporations, political subdivisions of the state, and charitable organizations: Provided, That any person, partnership, or business entity not having employees, and who is covered by the industrial insurance act shall be considered both an employer and an employee.

(7) "First-aid" means, for purposes of this section, the extent of treatment that could be expected to be given by a person trained in basic first-aid, using supplies from a first-aid kit. Tests, such as x-rays, shall not be confused with treatment.

(8) "Hazard" means that condition, potential or inherent, which can cause injury, death, or occupational disease.

(9) "Hospitalization" means to be sent to; to go to; or be admitted to a hospital or an equivalent medical facility and receive medical treatment beyond that which would be considered as first-aid treatment, regardless of the length of stay in the hospital or medical facility.

(10) "Qualified" means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work, or the project.

(11) "Safety factor" means the ratio of the ultimate breaking strength of a member or piece of material or equipment to the actual working stress or safe load when in use.

(12) "Safety and health standard" means a standard which requires the adoption or use of one or more practices, means, methods, operations, or processes reasonably necessary or appropriate to provide safe or healthful employment and places of employment.

(13) "Shall" means mandatory.

(14) "Should" means recommended.

(15) "Standard safeguard" means a device designed and constructed with the object of removing the hazard of accident incidental to the machine, appliance, tool, building, or equipment to which it is attached.

Standard safeguards shall be constructed of either metal or wood or other suitable material or a combination of these. The final determination of the sufficiency of any safeguard rests with the director of the department of labor and industries.

(16) "Suitable" means that which fits, or has the qualities or qualifications to meet a given purpose, occasion, condition, function, or circumstance.

(17) "Working day" means a calendar day, except Saturdays, Sundays, and legal holidays as set forth in RCW 1.16.050, as now or hereafter amended, and for the purposes

of the computation of time within which an act is to be done under the provisions of this chapter, shall be computed by excluding the first working day and including the last working day.

(18) "Worker, " "personnel, " "person, " "employee, " and other terms of like meaning, unless the context of the provision containing such term indicates otherwise, mean an employee of an employer who is employed in the business of his/her employer whether by way of manual labor or otherwise and every person in this state who is engaged in the employment of or who is working under an independent contract the essence of which is his/her personal labor for an employer whether by manual labor or otherwise.

(19) "Work place" means any plant, yard, premises, room, or other place where an employee or employees are employed for the performance of labor or service over which the employer has the right of access or control, and includes, but is not limited to, all work places covered by industrial insurance under Title 51 RCW, as now or hereafter amended.

(20) Abbreviations used in this chapter:

(a) "ANSI" means American National Standards Institute.

(b) "API" means American Petroleum Institute.

(c) "ASA" means American Standards Association.

(d) "ASAE" means American Society of Agricultural Engineers.

(e) "ASHRE" means American Society of Heating and Refrigeration Engineers.

(f) "ASME" means American Society for Mechanical Engineers.

(g) "ASTM" means American Society for Testing and Materials.

(h) "AWS" means American Welding Society.

(i) "BTU" means British thermal unit.

(j) "BTUH" means British thermal unit per hour.

(k) "CFM" means cubic feet per minute.

(l) "CFR" means Code of Federal Register.

(m) "CGA" means Compressed Gas Association.

(n) "CIE" means Commission Internationale de l' Eclairage.

(o) "DOT" means department of transportation.

(p) "FRP" means fiberglass reinforced plastic.

(q) "GPM" means gallons per minute.

(r) "ICC" means Interstate Commerce Commission.

(s) "ID" means inside diameter.

(t) "LPG" means liquefied petroleum gas.

(u) "MCA" means Manufacturing Chemist Association. (New name: Chemical Manufacturers Association.)

(v) "NBFU" means National Board of Fire Underwriters.

(w) "NEMA" means National Electrical Manufacturing Association.

(x) "NFPA" means National Fire Protection Association.

(y) "NTP" means normal temperature and pressure.

(z) "OD" means outside diameter.

(aa) "PSI" means pounds per square inch.

(bb) "PSIA" means pounds per square inch atmospheric.

(cc) "PSIG" means pounds per square inch gauge.

(dd) "RMA" means Rubber Manufacturers Association.

(ee) "SAE" means Society of Automotive Engineers.

(ff) "TFI" means The Fertilizer Institute.

(gg) "TSC" means Trailer Standard Code.

(hh) "UL" means Underwriters' Laboratories, Inc.

(ii) "USASI" means United States of America Standards Institute.

(jj) "USC" means United States Code.

(kk) "USCG" means United States Coast Guard.

(ll) "WAC" means Washington Administrative Code.

(mm) "WISHA" means Washington Industrial Safety and Health Act of 1973.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-012, filed 7/20/94, effective 9/20/94; 89-11-035 (Order 89-03), § 296-24-012, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-012, filed 5/9/73 and Order 73-4, § 296-24-012, filed 5/7/73.]

WAC 296-24-015 Education and first-aid standards. It shall be the duty of every employer to comply with such standards and systems of education for safety as shall be, from time to time, prescribed for such employer by the director of labor and industries or by statute. (Chapter 49.17 RCW.)

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-015, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-015, filed 11/13/80; Order 73-5, § 296-24-015, filed 5/9/73 and Order 73-4, § 296-24-015, filed 5/7/73.]

WAC 296-24-020 Management's responsibility. (1) It shall be the responsibility of management to establish, supervise, and enforce, in a manner which is effective in practice:

(a) A safe and healthful working environment.

(b) An accident prevention program as required by these standards.

(c) Training programs to improve the skill and competency of all employees in the field of occupational safety and health. Such training shall include the on-the-job instructions on the safe use of powered materials handling equipment, machine tool operations, use of toxic materials and operation of utility systems prior to assignments to jobs involving such exposures.

(2) After the emergency actions following accidents that cause serious injuries that have immediate symptoms, a preliminary investigation of the cause of the accident shall be conducted. The investigation shall be conducted by a person designated by the employer, the immediate supervisor of the injured employee, witnesses, employee representative, and any other person with the special expertise required to evaluate the facts relating to the cause of the accident. The findings of the investigation shall be documented by the employer for reference at any following formal investigation. If the employee representative is the business agent of the employee bargaining unit and is unavailable to participate without delaying the investigation group, the employer may proceed, and satisfy the requirements of subsection (2) of this section by using one of the following alternatives:

(a) The shop steward acts as the employee representative.

(b) An employee representative member of the safety committee acts as the employee representative.

(c) The employees select a person to represent them.

(3) Reporting of fatality or multiple hospitalization incidents.

(a) Within eight hours after the fatality or probable fatality of any employee from a work-related incident or the inpatient hospitalization of two or more employees as a result of a work-related incident, the employer of any employees so affected, shall orally report the fatality/multiple hospitalization by telephone or in person to the nearest office of the department or by using the OSHA toll-free central telephone number, 1-800-321-6742.

(i) This requirement applies to each such fatality or hospitalization of two or more employees which occurs within thirty days of the incident.

(ii) Exception: If the employer does not learn of a reportable incident at the time it occurs and the incident would otherwise be reportable under this subsection, the employer shall make a report within eight hours of the time the incident is reported to any agent or employee of the employer.

(iii) Each report required by this subsection shall relate the following information: Establishment name, location of the incident, time of the incident, number of fatalities or hospitalized employees, contact person, phone number, and a brief description of the incident.

(b) Equipment involved in an incident resulting in an immediate or probable fatality or in the in-patient hospitalization of two or more employees, shall not be moved, until a representative of the department investigates the incident and releases such equipment, except where removal is essential to prevent further incident. Where necessary to remove the victim, such equipment may be moved only to the extent of making possible such removal.

(c) Upon arrival of the department's investigator, employer shall assign to assist the investigator, the immediate supervisor and all employees who were witnesses to the incident, or whoever the investigator deems necessary to complete the investigation.

(4) Each employer shall maintain in each establishment a system for maintaining records of occupational injuries and illnesses as prescribed by WAC 296-27-030.

Note: Recordable cases include:
1. Every occupational death.
2. Every industrial illness.
3. Every occupational injury that involves one of the following:
   a. Unconsciousness.
   b. Inability to perform all phases of regular job.
   c. Inability to work full time on regular job.
   d. Temporary assignment to another job.
   e. Medical treatment beyond first-aid.

(5) All employers with eleven or more employees shall record occupational injury and illness information on forms OSHA 101 - Supplementary Record Occupational Injuries and Illnesses and OSHA 200 - Log and Summary. Forms other than OSHA 101 may be substituted for the Supplementary Record of Occupational Injuries and Illnesses if they contain the same items.

(6) Machinery, tools, materials or equipment, whether owned by the employer or under control of another firm or individual, which does not meet the compliance requirements of this chapter, or any other applicable vertical standard of a specific industry, shall not be utilized by employees.

(7) Each employer shall post and keep posted a notice or notices (the WISHA Poster, Job safety and health protection; form F416-081-000) to be furnished by the department of labor and industries, informing employees of the protections and obligations provided for in the act. For assistance and information, including copies of the act, and of specific safety and health standards, employees should contact the employer or the nearest office of the department of labor and industries. Such notice or notices shall be posted by the employer at each establishment in a conspicuous place or places where notices to employees are customarily posted. Each employer shall take steps to assure that such notices are not altered, defaced, or covered by other material.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-020, filed 9/30/94, effective 11/20/94; 91-24-017 (Order 91-07), § 296-24-020, filed 11/22/91, effective 12/24/91; 91-03-044 (Order 90-18), § 296-24-020, filed 1/10/91, effective 2/12/91; 90-03-029 (Order 89-20), § 296-24-020, filed 1/11/90, effective 2/26/90. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240 and chapters 42.30 and 43.22 RCW. 78-12-017 (Order 78-22), § 296-24-020, filed 11/13/78; Order 74-27, § 296-24-020, filed 5/7/74; Order 73-5, § 296-24-020, filed 5/9/73 and Order 73-4, § 296-24-020, filed 5/7/73.]

WAC 296-24-025 Employee's responsibility. (1) Employees shall coordinate and cooperate with all other employees in an attempt to eliminate accidents.

(2) Employees shall study and observe all safe practices governing their work.

(3) Employees should offer safety suggestions, wherein such suggestions may contribute to a safer work environment.

(4) Employees shall apply the principles of accident prevention in their daily work and shall use proper safety devices and protective equipment as required by their employment or employer.

(5) Employees shall properly care for all personal protective equipment.

(6) Employees shall make a prompt report to their immediate supervisor, of each industrial injury or occupational illness, regardless of the degree of severity.

(7) Employees shall not wear torn or loose clothing while working around machinery.

[Order 74-27, § 296-24-025, filed 5/7/74; Order 73-5, § 296-24-025, filed 5/9/73 and Order 73-4, § 296-24-025, filed 5/7/73.]

WAC 296-24-040 Accident prevention programs. Each employer shall develop a formal accident-prevention program, tailored to the needs of the particular plant or operation and to the type of hazards involved. The department may be contacted for assistance in developing appropriate programs.

(1) The following are the minimal program elements for all employers:

(a) A safety orientation program describing the employer's safety program and including:

(i) How and when to report injuries, including instruction as to the location of first-aid facilities.

(ii) How to report unsafe conditions and practices.

(iii) The use and care of required personal protective equipment.

(iv) The proper actions to take in event of emergencies including the routes of exiting from areas during emergencies.

(v) Identification of the hazardous gases, chemicals or materials involved along with the instructions on the safe use and emergency action following accidental exposure.

(vi) A description of the employer's total safety program.

(vii) An on-the-job review of the practices necessary to perform the initial job assignments in a safe manner.

(b) A designated safety and health committee consisting of management and employee representatives with the employee representatives being elected or appointed by fellow employees.

(2) Each accident-prevention program shall be outlined in written format.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-040, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240 and chapters 42.30 and 43.22 RCW. 78-12-017 (Order 78-22), § 296-24-040, filed 11/13/78; Order 74-27, § 296-24-040, filed 5/7/74; Order 73-5, § 296-24-040, filed 5/9/73 and Order 73-4, § 296-24-040, filed 5/7/73.]

WAC 296-24-045 Safety and health committee plan. (1) All employers of eleven or more employees, shall have a designated safety committee composed of employer-selected and employee-elected members.

(a) The terms of employee-elected members shall be a maximum of one year. Should a vacancy occur on the committee, a new member shall be elected prior to the next scheduled meeting.

(b) The number of employer-selected members shall not exceed the number of employee-elected members.

(2) The safety committee shall have an elected chairperson.

(3) The safety committee shall be responsible for determining the frequency of committee meetings.

Note: If the committee vote on the frequency of safety meetings is stalemated, the department's regional safety consultation representative shall be consulted for recommendations.

(a) The committee shall be responsible for determining the date, hour and location of the meeting.

(b) The length of each meeting shall not exceed one hour except by majority vote of the committee.

(4) Minutes of each committee meeting shall be prepared and filed for a period of at least one year and shall be made available for review by noncompliance personnel, of the department of labor and industries.

(5) Safety and health committee meetings shall address the following:

(a) A review of the safety and health inspection reports to assist in correction of identified unsafe conditions or practices.

(b) An evaluation of the accident investigations conducted since the last meeting to determine if the cause of the unsafe acts or unsafe condition involved was properly identified and corrected.

(c) An evaluation of the accident and illness prevention program with a discussion of recommendations for improvement where indicated.

(d) The attendance shall be documented.

(e) The subject(s) discussed shall be documented.

(6) All employers of ten or less employees and employers of eleven or more employees where the employees are segregated on different shifts or in widely dispersed locations in crews of ten or less employees, may elect to have foreperson-crew meetings in lieu of a safety and health committee plan provided:

(a) Foreperson-crew safety meetings shall be held at least once a month, or if conditions require, weekly or biweekly meetings shall be held to discuss safety problems as they arise.

(b) All items under subsection (5) of this section, shall be complied with.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-045, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-045, filed 11/13/80; 78-12-017 (Order 78-22), § 296-24-045, filed 11/13/78.]

WAC 296-24-055 Safety bulletin board. There shall be installed and maintained in every fixed establishment employing eight or more persons, a safety bulletin board sufficient in size to display and post safety bulletins, newsletters, posters, accident statistics and other safety educational material. It is recommended that safety bulletin boards be painted green and white.

[Order 73-5, § 296-24-055, filed 5/9/73 and Order 73-4, § 296-24-055, filed 5/7/73.]

WAC 296-24-061 First-aid requirements.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-061, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06105 What workplaces does this rule apply to? This rule applies to all workplaces, except for the ones listed below. They are, instead covered by separate individual rules (vertical standards):

Rule Title	Chapter
• Agriculture	296-307 WAC
• Compressed Air Work	296-36 WAC
• Construction	296-155 WAC
• Fire Fighters	296-305 WAC
• Logging	296-54 WAC
• Sawmills	296-78 WAC
• Shipbuilding and Repairing	296-304 WAC

[Statutory Authority: RCW 49.17.040. 99-02-023, § 296-24-06105, filed 12/30/98, effective 3/30/99. Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06105, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06110 What is the purpose of this rule? This rule ensures quick and effective first aid for all employees of the state, in case an injury or acute illness occurs on the job.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06110, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06115 What definitions apply to this section? "Emergency medical service" means medical treatment and care given at the scene of any medical emergency or while transporting any victim to a medical facility.

"First aid" is immediate emergency care for injuries or acute illness before emergency medical treatment is available.

"First-aid station" is a well marked location where first-aid kits and supplies are stored and telephone numbers of emergency medical services are posted.

"First-aid kit" is an unlocked container holding first-aid supplies.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06115, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06120 How must an employer ensure that first-aid assistance is available in the workplace? The employer must ensure that first-aid trained personnel are available to help employees who are injured or who become acutely ill on the job. The employer must meet this requirement by one of the two options listed below.

(1) Option 1: Developing and maintaining a written first-aid response plan. The first-aid response plan must:

(a) Fit the work location, type of work and environmental conditions;

(b) Identify available emergency medical services and access numbers;

(c) Tell where the emergency medical services access numbers are posted;

(d) Tell how employees are trained in first aid, if applicable;

(e) Tell how injured or ill employees will have access to first-aid-trained employees;

(f) Give the location(s) of first-aid supplies and/or first-aid stations;

(g) Identify the contents of first-aid kits; and

(h) Tell how first-aid supplies or kits will be inspected and maintained.

Note: The first-aid response plan can be part of the written accident prevention program. See Appendix 1 for further guidance on a first-aid response plan.

(2) Option 2: Maintaining first-aid trained staff on the job site. The employer must ensure that:

(a) Each person in charge of employees has first-aid training; or another person with first-aid training is present or available to the employees;

(b) Documentation of first-aid training is kept as required in WAC 296-24-06140;

(c) Emergency telephone numbers are adequately posted.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06120, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06125 How many employees must be trained in first aid? If the employer chooses Option 1 of WAC 296-24-06120, the employer must determine how many employees to train in first aid based on the following factors:

(1) Nature, potential and degree of occupational hazards;

(2) Remoteness of the workplace;

(3) Complexity of the workplace (including, but not limited to, design, size, etc.);

(4) History of past medical emergencies; and

(5) Time and distance to emergency medical services.

Note: If the employer requires an employee to give first aid, the bloodborne pathogen standard, WAC 296-62-080 applies and requires additional training.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06125, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06130 What must first-aid training cover? First-aid training must include these core elements:

(1) Role and responsibilities of the first-aid provider;

(2) Assessing a scene;

(3) Performing an initial and ongoing assessment of an injured or ill person;

(4) Scene safety;

(5) Body substance isolation;

(6) Performing an emergency move;

(7) Placing an ill person in the recovery position;

(8) Opening and maintaining an airway;

(9) Providing rescue breathing;

(10) Managing an obstructed airway;

(11) Performing adult one rescuer CPR;

(12) Recognizing the warning signs and symptoms of medical problems;

(13) Recognizing and caring for an injured or ill person with decreased levels of responsiveness;

(14) Controlling external bleeding and recognizing internal bleeding;

(15) Recognizing and caring for victims of shock;

(16) Recognizing and stabilizing spinal injury;

(17) Recognizing and manually stabilizing suspected skeletal injuries; and

(18) Knowledge of voluntary provisions of first aid, consent and confidentiality.

Note: Occupational risk or extended time and distance from emergency medical services may indicate a need for training beyond the items listed above. Each work environment should be surveyed to determine the appropriate level of training that employees should receive.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06130, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06135 How often must employees complete first-aid training? Every two years, employees must successfully complete first-aid training by demonstrating skill and knowledge in the core elements outlined in WAC 296-24-06130.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06135, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06140 How must an employer document first-aid training? Documentation of first-aid training must be maintained by the employer. Training rosters, first-aid cards or certificates are considered documentation.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06140, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06145 What is the requirement for first-aid supplies? (1) First-aid supplies must be readily available to all employees.

(2) First-aid supplies must be stored in containers adequate to protect the contents from damage, deterioration, or contamination. The containers must be clearly marked and not locked, but may be sealed.

(3) First-aid supplies must be able to be moved to the location of the injured or acutely ill worker.

(4) The first-aid supplies must be appropriate to the occupational setting and the response time of emergency medical services.

Note: See Appendix 2 for recommended contents of first-aid kits.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06145, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06150 What is the requirement to provide a first-aid station? (1) Employers with 50 or more employees per shift at one location must establish a first-aid station.

(2) The first-aid station must:

(a) Be well marked;

(b) Be available to employees during all working hours;

(c) Be equipped with first-aid supplies (type and amount depends on the number of employees, occupational setting and conditions);

(d) Have at least one portable first-aid kit.

(3) At least one first-aid trained employee must be available.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06150, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06155 APPENDIX 1 Evaluation worksheet for the first-aid response plan. This is a nonmandatory appendix. Option 1 of the first-aid standard (WAC 296-24-061) requires employers to prepare a first-aid response plan. The plan must address the availability of first-aid trained personnel at each place of employment. Since work sites are highly variable, the first-aid needs will also vary, depending on the number of employees, the type of work, the job hazards, and the availability of emergency medical services.

This questionnaire is designed to be used as a tool to assess the need for first-aid trained employees. Since some employers may have more than one location or type of work, this questionnaire can be used to assess each site. The plan should be reviewed annually or whenever conditions change at the work site.

1. What site or location does this plan cover?

2. Who is responsible for managing this plan?

3. How is this plan communicated to employees?

4. When was the plan written or last reviewed?

5. How many employees at the work site? (If work is seasonal, consider how many per season and shifts worked.)

6. How many work shifts at the work site? (Indicate shifts and employees per shift.)

Number of Employees	Shifts		
	Day	Swing	Graveyard
less than 10	___	___	___
11-49	___	___	___
50-99	___	___	___
100 or more	___	___	___

7. What are the sources of potential injuries or illnesses at the work site?

8. What types of injuries or illnesses have occurred in the past at the work site? (This information may be found in such sources as OSHA 200 forms, worker compensation claims, or safety committee minutes.)

9. What is the response time of the available emergency medical services to the work site (estimated time in minutes)?

10. How accessible are the first-aid trained personnel in the case of an accident?

11. What factors did I consider in deciding how many employees to train in first aid (specify)?

> Injury/illness history.

> Possible hazardous exposures (*chemicals, flammable liquids, temperature extremes, moving machinery or machinery parts, powered tools, work at elevations, high voltage electricity, confined spaces. If seasonal work, list for each season*).

> Number of separate work sites (*can be either separate locations, buildings, or types of work such as offices, warehouses, production areas, etc.*).

> Number of employees at this work site? (If seasonal work, list for each season.)

> Number of employees in each shift?

> Emergency medical service response time?

> First-aid response time?

12. Does the first-aid training provided to my employees include all the core elements required in the standard?

13. Based on my assessment of work site hazards, is additional training required beyond the core elements? *(Examples include burns, eye injuries, poisoning, heat stress, frostbite.)*

14. What factors did I consider in determining the contents of my first-aid supplies/kits (specify)?

> Injury/illness history.

> Type of hazards at work site (*physical, chemical, biological*).

> Number of employees and shifts.

> Recommendations of first-aid training providers, local emergency response providers, physicians or clinics, trade organizations, knowledgeable employees or first-aid kit vendors.

15. What factors did I consider in determining the number and location of my first-aid supplies/kit(s) (specify)?

> Location of employees.

> Areas of greatest hazards.

> Ease of accessibility of kit.

16. Who is responsible for maintaining first-aid supplies/kit(s)?

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06155, filed 3/2/98, effective 6/1/98.]

WAC 296-24-06160 APPENDIX 2—First-aid kit guidance.

Sample First-aid Kit Contents

a) 1 absorbent compress, 4x8 inches
b) 16 adhesive bandages, 1x3 inches
c) 1 adhesive tape, 5 yards long
d) 10 antiseptic single-use packages, 0.5 g. application
e) 6 burn treatment single-use packages, 0.5 g. application
f) 1 eye covering (for two eyes)
g) 1 eye wash, 1 fluid ounce
h) 4 sterile pads, 3x3 inches
i) 2 pair of medical exam gloves
j) 1 triangular bandage, 39x39x55 inches

Optional First-aid Kit Contents

ao) Bandage compresses, 2x2 inches, 3x3 inches and 5x5 inches
bo) Self-activating cold packs, 4x5 inches
co) Roller bandages, 6 yards long
do) Mouth-to-mouth barrier for CPR

Note: ASTM, ANSI, or other consensus national standard kits will meet these requirements.

Employers may consider factors in Appendix 1 (item #15) to determine additional locations or quantities of first-aid supplies.

[Statutory Authority: Chapter 49.17 RCW. 98-06-061, § 296-24-06160, filed 3/2/98, effective 6/1/98.]

WAC 296-24-073 Safe place standards. (1) Each employer shall furnish to each employee a place of employment free from recognized hazards that are causing or likely to cause serious injury or death to his employees.

(2) Every employer shall furnish and use safety devices and safeguards, and shall adopt and use practices, means, methods, operations, and processes which are reasonably adequate to render such employment and place of employment safe. Every employer shall do every other thing reasonably necessary to protect the life and safety of employees.

(3) No employer shall require any employee to go or be in any employment or place of employment which is not safe.

(4) No employer shall fail or neglect:

(a) To provide and use safety devices and safeguards.

(b) To adopt and use methods and processes reasonably adequate to render the employment and place of employment safe.

(c) To do every other thing reasonably necessary to protect the life and safety of employees.

(5) No employer, owner, or lessee of any real property shall construct or cause to be constructed any place of employment that is not safe.

(6) No person shall do any of the following:

(a) Remove, displace, damage, destroy or carry off any safety device, safeguard, notice, or warning, furnished for use in any employment or place of employment.

(b) Interfere in any way with the use thereof by any other person.

(c) Interfere with the use of any method or process adopted for the protection of any one employee, including themselves, in such employment, or place of employment.

(d) Fail or neglect to do every other thing reasonably necessary to protect the life and safety of employees.

(e) Intoxicating beverages and narcotics shall not be permitted in or around work sites except in industries and business engaged in the production, distribution, and sale of intoxicating beverages and drugs. Workers under the influence of alcohol or narcotics shall not be permitted on the work site. This rule does not apply to persons taking prescription drugs and narcotics as directed by a physician or dentist providing such use shall not endanger the worker or others.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-073, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-01-022 (Order 84-24), § 296-24-073, filed 12/11/84; Order 74-27, § 296-24-073, filed 5/7/74; Order 73-5, § 296-24-073, filed 5/9/73 and Order 73-4, § 296-24-073, filed 5/7/73.]

PART A-2
PERSONAL PROTECTIVE EQUIPMENT

WAC 296-24-075 Personal protective equipment.

[Order 73-5, § 296-24-075, filed 5/9/73 and Order 73-4, § 296-24-075, filed 5/7/73.]

WAC 296-24-07501 General requirements. (1) Application.

(a) Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.

(b) Employee owned equipment. Where employees provide their own protective equipment, the employer shall be responsible to assure its adequacy, including proper maintenance, and sanitation of such equipment.

(c) Design. All personal protective equipment shall be of safe design and construction for the work to be performed. Protectors shall be durable, fit snugly and shall not unduly interfere with the movements of the wearer.

(2) Hazard assessment and equipment selection. This subsection does not apply to WAC 296-24-092, Electrical protective devices, and WAC 296-62-071 through 296-62-07121, Part E, Respiratory protection.

(a) The employer shall assess the workplace to determine if hazards are present, or are likely to be present, which necessitate the use of personal protective equipment (PPE). If such hazards are present, or likely to be present, the employer shall:

(i) Select, and have each affected employee use, the types of PPE that will protect the affected employee from the hazards identified in the hazard assessment;

(ii) Communicate selection decisions to each affected employee; and

(iii) Select PPE that properly fits each affected employee.

Note: Nonmandatory Appendix B contains an example of procedures that would comply with the requirement for a hazard assessment.

(b) The employer shall verify that the required workplace hazard assessment has been performed through a written certification that identifies the workplace evaluated; the person certifying that the evaluation has been performed; the date(s) of the hazard assessment; and, which identifies the document as a certification of hazard assessment.

(3) Defective and damaged equipment. Defective or damaged personal protective equipment shall not be used.

(4) Training. This subsection does not apply to WAC 296-24-092, Electrical protective devices, and WAC 296-62-071 through 296-62-07121, Part E, Respiratory protection.

(a) The employer shall provide training to each employee who is required by this section to use PPE. Each such employee shall be trained to know at least the following:

(i) When PPE is necessary;

(ii) What PPE is necessary;

(iii) How to properly don, doff, adjust, and wear PPE;

(iv) The limitations of the PPE; and

(v) The proper care, maintenance, useful life and disposal of the PPE.

(b) Each affected employee shall demonstrate an understanding of the training specified in (a) of this subsection, and the ability to use PPE properly, before being allowed to perform work requiring the use of PPE.

(c) When the employer has reason to believe that any affected employee who has already been trained does not have the understanding and skill required by (b) of this subsection, the employer shall retrain each such employee. Circumstances where retraining is required include, but are not limited to, situations where:

(i) Changes in the workplace render previous training obsolete; or

(ii) Changes in the types of PPE to be used render previous training obsolete; or

(iii) Inadequacies in an affected employee's knowledge or use of assigned PPE indicate that the employee has not retained the requisite understanding or skill.

(d) The employer shall verify that each affected employee has received and understood the required training through a written certification that contains the name of each employee trained, the date(s) of training, and that identifies the subject of the certification.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-07501, filed 9/30/94, effective 11/20/94; Order 73-5, § 296-24-07501, filed 5/9/73 and Order 73-4, § 296-24-07501, filed 5/7/73.]

WAC 296-24-078 Eye and face protection.

[Order 73-5, § 296-24-078, filed 5/9/73 and Order 73-4, § 296-24-078, filed 5/7/73.]

WAC 296-24-07801 General. (1) The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.

(2) The employer shall ensure that each affected employee uses eye protection that provides side protection when there is a hazard from flying objects. Detachable side protectors (e.g., clip-on or slide-on side shields) meeting the pertinent requirements of this section are acceptable.

(3) The employer shall ensure that each affected employee who wears prescription lenses while engaged in operations that involve eye hazards wears eye protection that incorporates the prescription in its design, or wears eye protection that can be worn over the prescription lenses without disturbing the proper position of the prescription lenses or the protective lenses.

(4) Eye and face PPE shall be distinctly marked to facilitate identification of the manufacturer.

(5) The employer shall ensure that each affected employee uses equipment with filter lenses that have a shade number appropriate for the work being performed for protection from injurious light radiation. The following is a listing of appropriate shade numbers for various operations.

Filter Lenses for Protection Against Radiant Energy

Operations	Electrode Size 1/32 (inches)	Minimum* Protective Arc Current	Shade
Shielded metal arc welding	Less than 3	Less than 60	7
	3-5	60-160	8
	5-8	160-250	10
	More than 8	250-550	11
Gas metal arc welding and flux cored arc welding		Less than 60	7
		60-160	10
		160-250	10
		250-500	10
Gas Tungsten arc welding		Less than 50	8
		50-150	8
		150-500	10
Air carbon Arc cutting	(Light)	Less than 500	10
	(Heavy)	500-1000	11
Plasma arc welding		Less than 20	6
		20-100	8
		100-400	10
		400-800	11
Plasma arc cutting	(Light)	Less than 300	8
	(Medium)**	300-400	9
	(Heavy)**	400-800	10
Torch brazing			3
Torch soldering			2
Carbon arc welding			14

Filter Lenses for Protection Against Radiant Energy

Operations	Plate thickness (inches)	Plate thickness (mm)	Minimum* Protective Shade
Gas welding:			
Light	Under 1/8	Under 3.2	4
Medium	1/8 to 1/2	3.2 to 12.7	5
Heavy	Over 1/2	Over 12.7	6
Oxygen cutting:			
Light	Under 1	Under 25	3
Medium	1 to 6	25 to 150	4
Heavy	Over 6	Over 150	5

*As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to a lighter shade which gives suf-

ficient view of the weld zone without going below the minimum. In oxyfuel gas welding or cutting where the torch produces a high yellow light, it is desirable to use a filter lens that absorbs the yellow or sodium line in the visible light of the (spectrum) operation.

** These values apply where the actual arc is clearly seen. Experience has shown that lighter filters may be used when the arc is hidden by the workpiece.

(6) Criteria for protective eye and face devices.

(a) Protective eye and face devices purchased after February 20, 1995, shall comply with ANSI Z87.1-1989, "American National Standard Practice for Occupational and Educational Eye and Face Protection, " which is incorporated by reference, or shall be demonstrated by the employer to be equally effective.

(b) Eye and face protective devices purchased before February 20, 1995, shall comply with the ANSI standard "American National Standard Practice for Occupational and Educational Eye and Face Protection, " ANSI Z87.1-1968 or shall be demonstrated by the employer to be equally effective.

[Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 97-11-055, § 296-24-07801, filed 5/20/97, effective 8/1/97. Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-07801, filed 9/30/94, effective 11/20/94; Order 73-5, § 296-24-07801, filed 5/9/73 and Order 73-4, § 296-24-07801, filed 5/7/73.]

WAC 296-24-084 Occupational head protection. (1) General requirements.

(a) The employer shall ensure that each affected employee wears a protective helmet when working in areas where there is a potential for injury to the head from falling or flying objects.

(b) The employer shall ensure that a protective helmet designed to reduce electrical shock hazard is worn by each such affected employee when near exposed electrical conductors which could contact the head.

(2) Criteria for protective helmets.

(a) Protective helmets purchased after February 20, 1995, shall comply with ANSI Z89.1-1986, "American National Standard for Personnel Protection—Protective Headwear for Industrial Workers—Requirements, " which is incorporated by reference, or shall be demonstrated to be equally effective.

(b) Protective helmets purchased before February 20, 1995, shall comply with the ANSI standard "American National Standard Safety Requirements for Industrial Head Protection, " ANSI Z89.1-1969, or shall be demonstrated by the employer to be equally effective.

(3) Persons working in the shops around machinery or in locations which present a hair catching or fire hazard shall wear caps or other type of head covering which completely covers the hair. Caps with metal buttons or metal visors shall not be worn around electrical hazards.

Note 1: The following will define hair lengths considered hazardous:
(a) When the length would exceed the circumference of exposed revolving shafts or tools in fixed machines by 200 percent.
(b) When the length would exceed the radius of pressure rolls with exposed in-running nip points.
(c) When the employee is exposed to an ignition source and the employee may, with hair aflame, run into an area containing class -1 flammable liquids or combustible atmospheres.
(d) When exposures require personal protective devices, such as mask-type respirators or ear-cup-type hearing protection devices, and hair, either facial or head, would interfere with a proper seal.

Note 2: When hair length is judged hazardous from a hair catching standpoint (instances (a) or (b) under interpretations in Note 1) minimal confinement shall be within netting which controls all loose ends.

Note 3: If hazardous from fire hazard aspects (instance (c) of Note 1) the hair must be confined within a solid-type material.

(4) Protective helmets shall be worn by employees who work around or under scaffolds or other overhead structures, or who are otherwise exposed to the hazards of falling materials and propelled objects.

[Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 97-11-055, § 296-24-084, filed 5/20/97, effective 8/1/97. Statutory Authority: Chapter 49.17 RCW. 96-09-030, § 296-24-084, filed 4/10/96, effective 6/1/96; 94-20-057 (Order 94-16), § 296-24-084, filed 9/30/94, effective 11/20/94; 91-03-044 (Order 90-18), § 296-24-084, filed 1/10/91, effective 2/12/91; Order 74-27, § 296-24-084, filed 5/7/74; Order 73-5, § 296-24-084, filed 5/9/73 and Order 73-4, § 296-24-084, filed 5/7/73.]

WAC 296-24-086 Personal flotation devices. (1) Employees working on, over or along water, where the danger of drowning exists, shall be provided with and shall wear approved personal flotation devices.

(a) Employees are not considered exposed to the danger of drowning when;

(i) The water depth is known to be less than chest deep on the exposed individual;

(ii) When working behind standard height and strength guardrails;

(iii) When working inside operating cabs or stations which eliminate the possibility of accidentally falling into the water;

(iv) When wearing approved safety belts with lifeline attached so as to preclude the possibility of falling into the water.

(b) Prior to and after each use, personal flotation devices shall be inspected for defects which would reduce their designed effectiveness. Defective personal flotation devices shall not be used.

(c) To meet the approved criteria required by subdivision (1), a personal flotation device shall be approved by the United States Coast Guard as a Type I PFD, Type II PFD, Type III PFD, or Type V PFD, or their equivalent, pursuant to 46 CFR 160 (Coast Guard Lifesaving Equipment Specifications) and 33 CFR 175.23 (Coast Guard table of devices equivalent to personal flotation devices). Ski belt or inflatable type personal flotation devices are specifically prohibited.

(2) Life ring.

(a) Along docks, walkways or other fixed installations on or adjacent to open water more than five feet deep, approved life rings with line attached shall be provided. The life rings shall be spaced at intervals not to exceed 200 feet and shall be kept in easily visible and readily accessible locations.

(b) When employees are assigned work at other casual locations where exposure to drowning exists, at least one approved life ring with line attached shall be provided in the immediate vicinity of the work assigned.

(c) Work assigned over water where the vertical drop from an accidental fall would exceed 50 feet, shall be subject to specific procedures as approved by the department.

(d) Lines attached to life rings shall be at least 90 feet in length, at least 1/4 inch in diameter and have a minimum breaking strength of 500 pounds.

(e) Life rings must be United States Coast Guard approved 30 inch size.

(f) Life rings and attached lines must be maintained to retain at least 75 percent of their designed buoyance and strength.

[Order 76-6, § 296-24-086, filed 3/1/76.]

WAC 296-24-088 Occupational foot protection. (1) General requirements. The employer shall ensure that each affected employee wears protective footwear when working in areas where there is a danger of foot injuries due to falling or rolling objects, or objects piercing the sole, and where such employee's feet are exposed to electrical hazards.

(2) Criteria for protective footwear.

(a) Protective footwear purchased after February 20, 1995, shall comply with ANSI Z41-1991, "American National Standard for Personal Protection—Protective Footwear, " which is incorporated by reference, or shall be demonstrated by the employer to be equally effective.

(b) Protective footwear purchased before February 20, 1995, shall comply with the ANSI standard "USA Standard for Men's Safety-Toe Footwear, " ANSI Z41.1-1967, which is incorporated by reference, or shall be demonstrated by the employer to be equally effective.

(3) Calks or other suitable footwear which will afford reasonable protection from slipping shall be worn while working on logs.

[Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 97-11-055, § 296-24-088, filed 5/20/97, effective 8/1/97. Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-088, filed 9/30/94, effective 11/20/94; 94-15-096 (Order 94-07), § 296-24-088, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-088, filed 5/9/73 and Order 73-4, § 296-24-088, filed 5/7/73.]

WAC 296-24-090 Hand protection. (1) General requirements. Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns; and harmful temperature extremes.

(2) Selection. Employers shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-090, filed 9/30/94, effective 11/20/94.]

WAC 296-24-092 Electrical protective equipment. (1) Design requirements. Insulating blankets, matting, covers, line hose, gloves, and sleeves made of rubber shall meet the following requirements:

(a) Manufacture and marking.

(i) Blankets, gloves, and sleeves shall be produced by a seamless process.

(ii) Each item shall be clearly marked as follows:

(A) Class 0 equipment shall be marked Class 0.

(B) Class 1 equipment shall be marked Class 1.

(C) Class 2 equipment shall be marked Class 2.

(D) Class 3 equipment shall be marked Class 3.

(E) Class 4 equipment shall be marked Class 4.

(F) Nonozone-resistant equipment other than matting shall be marked Type I.

(G) Ozone-resistant equipment other than matting shall be marked Type II.

(H) Other relevant markings, such as the manufacturer's identification and the size of the equipment, may also be provided.

(iii) Markings shall be nonconducting and shall be applied in such a manner as not to impair the insulating qualities of the equipment.

(iv) Markings on gloves shall be confined to the cuff portion of the glove.

(b) Electrical requirements.

(i) Equipment shall be capable of withstanding the a-c proof-test voltage specified in Table A-2 or the d-c proof-test voltage specified in Table A-3.

(A) The proof-test shall reliably indicate that the equipment can withstand the voltage involved.

(B) The test voltage shall be applied continuously for three minutes for equipment other than matting and shall be applied continuously for one minute for matting.

(C) Gloves shall also be capable of withstanding the a-c proof-test voltage specified in Table A-2 after a sixteen-hour water soak. (See the note following (c)(ii)(B) of this subsection.)

(ii) When the a-c proof-test is used on gloves, the 60 hertz proof-test current may not exceed the values specified in Table A-2 at any time during the test period.

(A) If the a-c proof-test is made at a frequency other than 60 hertz, the permissible proof-test current shall be computed from the direct ratio of the frequencies.

(B) For the test, gloves (right side out) shall be filled with tap water and immersed in water to a depth that is in accordance with Table A-4. Water shall be added to or removed from the glove, as necessary, so that the water level is the same inside and outside the glove.

(C) After the sixteen-hour water soak specified in (b)(i)(C) of this subsection, the 60-hertz proof-test current may exceed the values given in Table A-2 by not more than 2 milliamperes.

(iii) Equipment that has been subjected to a minimum breakdown voltage test may not be used for electrical protection. (See the note following (c)(ii)(B) of this subsection.)

(iv) Material used for Type II insulating equipment shall be capable of withstanding an ozone test, with no visible effects. The ozone test shall reliably indicate that the material will resist ozone exposure in actual use. Any visible signs of ozone deterioration of the material, such as checking, cracking, breaks, or pitting, is evidence of failure to meet the requirements for ozone-resistant material. (See the note following (c)(ii)(B) of this subsection.)

(c) Workmanship and finish.

(i) Equipment shall be free of harmful physical irregularities that can be detected by the tests or inspections required under this section.

(ii) Surface irregularities that may be present on all rubber goods because of imperfections on forms or molds or because of inherent difficulties in the manufacturing process and that may appear as indentations, protuberances, or imbedded foreign material are acceptable under the following conditions:

(A) The indentation or protuberance blends into a smooth slope when the material is stretched.

(B) Foreign material remains in place when the insulating material is folded and stretches with the insulating material surrounding it.

Note: Rubber insulating equipment meeting the following national consensus standards is deemed to be in compliance with subsection (1) of this section:
American Society for Testing and Materials (ASTM) D 120-87, Specification for Rubber Insulating Gloves.
ASTM D 178-93, Specification for Rubber Insulating Matting.
ASTM D 1048-93, Specification for Rubber Insulating Blankets.
ASTM D 1049-93, Specification for Rubber Insulating Covers.
ASTM D 1050-90, Specification for Rubber Insulating Line Hose.
ASTM D 1051-87, Specification for Rubber Insulating Sleeves.
These standards contain specifications for conducting the various tests required in subsection (1) of this section. For example, the a-c and d-c proof-tests, the breakdown test, the water soak procedure, and the ozone test mentioned in this paragraph are described in detail in the ASTM standards.

(2) In-service care and use.

(a) Electrical protective equipment shall be maintained in a safe, reliable condition.

(b) The following specific requirements apply to insulating blankets, covers, line hose, gloves, and sleeves made of rubber:

(i) Maximum use voltages shall conform to those listed in Table A-5.

(ii) Insulating equipment shall be inspected for damage before each day's use and immediately following any incident that can reasonably be suspected of having caused damage. Insulating gloves shall be given an air test, along with the inspection.

(iii) Insulating equipment with any of the following defects may not be used:

(A) A hole, tear, puncture, or cut;

(B) Ozone cutting or ozone checking (the cutting action produced by ozone on rubber under mechanical stress into a series of interlacing cracks);

(C) An embedded foreign object;

(D) Any of the following texture changes: Swelling, softening, hardening, or becoming sticky or inelastic.

(E) Any other defect that damages the insulating properties.

(iv) Insulating equipment found to have other defects that might affect its insulating properties shall be removed from service and returned for testing under (b)(viii)(ix) of this subsection.

(v) Insulating equipment shall be cleaned as needed to remove foreign substances.

(vi) Insulating equipment shall be stored in such a location and in such a manner as to protect it from light, temperature extremes, excessive humidity, ozone, and other injurious substances and conditions.

(vii) Protector gloves shall be worn over insulating gloves.

(viii) Electrical protective equipment shall be subjected to periodic electrical tests. Test voltages and the maximum intervals between tests shall be in accordance with Table A-5 and Table A-6.

(ix) The test method used under (b)(viii) and (xi) of this subsection shall reliably indicate whether the insulating equipment can withstand the voltages involved.

Note: Standard electrical test methods considered as meeting this requirement are given in the following national consensus standards:
American Society for Testing and Materials (ASTM) D 120-87, Specification for Rubber Insulating Gloves.
ASTM D 1048-93, Specification for Rubber Insulating Blankets.
ASTM D 1049-93, Specification for Rubber Insulating Covers.
ASTM D 1050-90, Specification for Rubber Insulating Line Hose.
ASTM D 1051-87, Specification for Rubber Insulating Sleeves.
ASTM F 478-92, Specification for In-Service Care of Insulating Line Hose and Covers.
ASTM F 479-88a, Specification for In-Service Care of Insulating Blankets.
ASTM F 496-93b, Specification for In-Service Care of Insulating Gloves and Sleeves.

(x) Insulating equipment failing to pass inspections or electrical tests shall not be used by employees, except as follows:

(A) Rubber insulating line hose could be used in shorter lengths with the defective portion cut off.

(B) Rubber insulating blankets could be repaired using a compatible patch that results in physical and electrical properties equal to those of the blanket.

(C) Rubber insulating blankets could be salvaged by severing the defective area from the undamaged portion of the blanket. The resulting undamaged area shall not be smaller than twenty-two inches by twenty-two inches (560 mm by 560 mm) for Class 1, 2, 3, and 4 blankets.

(xi) Repaired insulating equipment shall be retested before it may be used by employees.

(xii) The employer shall certify that equipment has been tested in accordance with the requirements of (b)(viii), (ix), and (xi) of this subsection. The certification shall identify the equipment that passed the test and the date it was tested.

Note: Marking of equipment and entering the results of the tests and the dates of testing onto logs are two acceptable means of meeting this requirement.

Table A-2. -A-C Proof-Test Requirements

Class of equipment	Proof-test voltage rms V	Maximum proof-test current, mA (gloves only) 267-mm (10.5-in) glove	356-mm (14-in) glove	406-mm (16-in) glove	457-mm (18-in) glove
0	5,000	8	12	14	16
1	10,000		14	16	18
2	20,000		16	18	20

Table A-2. -A-C Proof-Test Requirements

Class of equipment	Proof-test voltage rms V	Maximum proof-test current, mA (gloves only) 267-mm (10.5-in) glove	356-mm (14-in) glove	406-mm (16-in) glove	457-mm (18-in) glove
3	30,000		18	20	22
4	40,000			22	24

Table A-3. -D-C Proof-Test Requirements

Class of equipment	Proof-test voltage
0	20,000
1	40,000
2	50,000
3	60,000
4	70,000

Note: The d-c voltages listed in this table are not appropriate for proof testing rubber insulating line hose or covers. For this equipment, d-c proof-tests shall use a voltage high enough to indicate that the equipment can be safely used at the voltages listed in Table A-4. See ASTM D 1050-90 and ASTM D 1049-88 for further information on proof tests for rubber insulating line hose and covers.

Table A-4.-Glove Tests-Water Level[1,2]

Class of glove	A-C proof-test mm.	A-C proof-test in.	D-C proof-test mm.	D-C proof-test in.
0	38	1.5	38	1.5
1	38	1.5	51	2.0
2	64	2.5	76	3.0
3	89	3.5	102	4.0
4	127	5.0	153	6.0

[1]The water level is given as the clearance from the cuff of the glove to the water line, with a tolerance of 13 mm. (0.5 in.).

[2]If atmospheric conditions make the specified clearances impractical, the clearances may be increased by a maximum of 25 mm. (1 in.).

Table A-5.-Rubber Insulating Equipment Voltage Requirements

Class of equipment	Maximum use voltage[1] a-c-rms	Retest voltage[2] a-c-rms	Retest voltage[2] d-c-rms
0	1,000	5,000	20,000
1	7,500	10,000	40,000
2	17,000	20,000	50,000
3	26,500	30,000	60,000
4	36,000	40,000	70,000

Note: Rubber gloves shall only be used on voltages of 5000 volts phase to phase or less.

[1]The maximum use voltage is the a-c voltage (rms) classification of the protective equipment that designates the maximum nominal design/voltage of the energized system that may be safely worked. The nominal design voltage is equal to the phase-to-phase voltage on multiphase circuits. However, the phase-to-ground potential is considered to be the nominal design/voltage:

1. If there is no multiphase exposure in a system area and if the voltage exposure is limited to the phase-to-ground potential, or

2. If the electrical equipment and devices are insulated or isolated or both so that the multiphase exposure on a grounded wye circuit is removed.

[2]The proof-test voltage shall be applied continuously for at least one minute, but no more than three minutes.

Table A-6.-Rubber Insulating Equipment Test Intervals

Type of equipment	When to test
Rubber insulating line hose	Upon indication that insulating value is suspect.
Rubber insulating covers	Upon indication that insulating value is suspect.
Rubber insulating blankets	Before first issue and every 12 months thereafter.[1]
Rubber insulating gloves	Before first issue and every 6 months thereafter.[1]
Rubber insulating sleeves	Before first issue and every 12 months thereafter.[1]

If the insulating equipment has been electrically tested but not issued for service, it may not be placed into service unless it has been electrically tested within the previous 12 months.

(3) Where switches or fuses of more than 150 volts to ground are not guarded during ordinary operations, suitable insulating floors, mats or platforms shall be provided on which the operator must stand while handling the switches.

[Statutory Authority: Chapter 49.17 RCW. 96-09-030, § 296-24-092, filed 4/10/96, effective 6/1/96; 94-20-057 (Order 94-16), § 296-24-092, filed 9/30/94, effective 11/20/94; Order 73-5, § 296-24-092, filed 5/9/73 and Order 73-4, § 296-24-092, filed 5/7/73.]

WAC 296-24-094 Lighting and illumination. Refer to WAC 296-62-09003 (General occupational health standards) which shall apply as minimum standards of illumination for industrial interiors.

[Order 74-27, § 296-24-094, filed 5/7/74.]

WAC 296-24-096 Appendix A to Part A-2—References for further information (nonmandatory). The documents in Appendix A provide information which may be helpful in understanding and implementing the standards in Part A-2.

1. Bureau of Labor Statistics (BLS). "Accidents Involving Eye Injuries." Report 597, Washington, D.C.: BLS, 1980.

2. Bureau of Labor Statistics (BLS). "Accidents Involving Face Injuries." Report 604, Washington, D.C.: BLS, 1980.

3. Bureau of Labor Statistics (BLS). "Accidents Involving Head Injuries." Report 605, Washington, D.C.: BLS, 1980.

4. Bureau of Labor Statistics (BLS). "Accidents Involving Foot Injuries." Report 626, Washington, D.C.: BLS, 1981.

5. National Safety Council. "Accident Facts, " Annual edition, Chicago, IL: 1981.

6. Bureau of Labor Statistics (BLS). "Occupational Injuries and Illnesses in the United States by Industry, " Annual edition, Washington, D.C.: BLS.

7. National Society to Prevent Blindness. "A Guide for Controlling Eye Injuries in Industry, " Chicago, IL: 1982.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-096, filed 9/30/94, effective 11/20/94.]

WAC 296-24-098 Appendix B to Part A-2—Nonmandatory compliance guidelines for hazard assessment and personal protective equipment selection. This Appendix is intended to provide compliance assistance for employers and employees in implementing requirements for a hazard assessment and the selection of personal protective equipment.

(1) Controlling hazards. PPE devices alone should not be relied on to provide protection against hazards, but should be used in conjunction with guards, engineering controls, and sound manufacturing practices.

(2) Assessment and selection. It is necessary to consider certain general guidelines for assessing the foot, head, eye and face, and hand hazard situations that exist in an occupational or educational operation or process, and to match the protective devices to the particular hazard. It should be the responsibility of the safety officer to exercise reasonable diligence and appropriate expertise to accomplish these tasks.

(3) Assessment guidelines. In order to assess the need for PPE the following steps should be taken:

(a) Survey. Conduct a walk-through survey of the areas in question. The purpose of the survey is to identify sources of hazards to workers and co-workers. Consideration should be given to the basic hazard categories:

(i) Impact;

(ii) Penetration;

(iii) Compression (roll-over);

(iv) Chemical;

(v) Heat;

(vi) Harmful dust;

(vii) Light (optical) radiation.

(b) Sources. During the walk-through survey the safety officer should observe:

(i) Sources of motion; i.e., machinery or processes where any movement of tools, machine elements or particles could exist, or movement of personnel that could result in collision with stationary objects;

(ii) Sources of high temperatures that could result in burns, eye injury or ignition of protective equipment, etc.;

(iii) Types of chemical exposures;

(iv) Sources of harmful dust;

(v) Sources of light radiation, i.e., welding, brazing, cutting, furnaces, heat treating, high intensity lights, etc.;

(vi) Sources of falling objects or potential for dropping objects;

(vii) Sources of sharp objects which might pierce the feet or cut the hands;

(viii) Sources of rolling or pinching objects which could crush the feet;

(ix) Layout of workplace and location of co-workers; and

(x) Any electrical hazards. In addition, injury/accident data should be reviewed to help identify problem areas.

(c) Organize data. Following the walk-through survey, it is necessary to organize the data and information for use in the assessment of hazards. The objective is to prepare for an analysis of the hazards in the environment to enable proper selection of protective equipment.

(d) Analyze data. Having gathered and organized data on a workplace, an estimate of the potential for injuries should be made. Each of the basic hazards (subsection (3)(a) of this section) should be reviewed and a determination made as to the type, level of risk, and seriousness of potential injury from each of the hazards found in the area. The possibility of exposure to several hazards simultaneously should be considered.

(4) Selection guidelines. After completion of the procedures in subsection (3) of this section, the general procedure for selection of protective equipment is to:

(a) Become familiar with the potential hazards and the type of protective equipment that is available, and what it can do; i.e., splash protection, impact protection, etc.;

(b) Compare the hazards associated with the environment; i.e., impact velocities, masses, projectile shape, radiation intensities, with the capabilities of the available protective equipment;

(c) Select the protective equipment which ensures a level of protection greater than the minimum required to protect employees from the hazards; and

(d) Fit the user with the protective device and give instructions on care and use of the PPE. It is very important that end users be made aware of all warning labels for and limitations of their PPE.

(5) Fitting the device. Careful consideration must be given to comfort and fit. PPE that fits poorly will not afford the necessary protection. Continued wearing of the device is more likely if it fits the wearer comfortably. Protective devices are generally available in a variety of sizes. Care should be taken to ensure that the right size is selected.

(6) Devices with adjustable features. Adjustments should be made on an individual basis for a comfortable fit that will maintain the protective device in the proper position. Particular care should be taken in fitting devices for eye protection against dust and chemical splash to ensure that the devices are sealed to the face. In addition, proper fitting of helmets is important to ensure that it will not fall off during work operations. In some cases a chin strap may be necessary to keep the helmet on an employee's head. (Chin straps should break at a reasonably low force, however, so as to prevent a strangulation hazard.) Where manufacturer's instructions are available, they should be followed carefully.

(7) Reassessment of hazards. It is the responsibility of the safety officer to reassess the workplace hazard situation as necessary, by identifying and evaluating new equipment and processes, reviewing accident records, and reevaluating the suitability of previously selected PPE.

(8) Selection chart guidelines for eye and face protection. Some occupations (not a complete list) for which eye protection should be routinely considered are: Carpenters, electricians, machinists, mechanics and repairers, millwrights, plumbers and pipe fitters, sheet metal workers and tinsmiths, assemblers, sanders, grinding machine operators, lathe and milling machine operators, sawyers, welders, laborers, chemical process operators and handlers, and timber cutting and logging workers. The following chart provides general guidance for the proper selection of eye and face protection to protect against hazards associated with the listed hazard "source" operations.

Eye and Face Protection Selection Chart

Source	Assessment of Hazard	Protection
IMPACT—Chipping, grinding machining, masonry work, sawing, drilling, chiseling, powered fastening, riveting, woodworking, and sanding.	Flying fragments, objects, large chips, particles sand, dirt, etc.	Spectacles with side protection, goggles, face shields. See notes 1, 3, 5, 6, 10. For severe exposure, use face shield.
HEAT—Furnace operations, pouring, casting, hot dipping, and welding.	Hot sparks	Face shields, goggles, spectacles with side protection. For severe exposure use face shield. See notes 1, 2, 3.
	Splash from molten metals	Face shields worn over goggles. See notes 1, 2, 3.
	High temperature exposure	Screen face shields, reflective face shields. See notes 1, 2, 3.
CHEMICALS—Acid and chemicals handling, plating.	Splash	Goggles, eyecup and cover types. For severe degreasing exposure, use face shield. See notes 3, 11.
	Irritating mists	Special-purpose goggles.
DUST—Woodworking, dusty conditions.	Nuisance dust	Goggles, eyecup and buffing, general cover types. See note 8.
LIGHT and/or RADIATION—		
Welding: Electric arc.	Optical radiation	Welding helmets or welding shields. Typical shades: 10-14. See notes 9, 12.
Welding: Gas.	Optical radiation	Welding goggles or welding face shield. Typical shades: Gas welding 4-8, cutting 3-6, brazing 3-4. See note 9.
Cutting, Torch brazing, Torch soldering.	Optical radiation	Spectacles or welding face shield. Typical shades, 1.5-3. See notes 3, 9.
Glare.	Poor vision	Spectacles with shaded or special-purpose lenses, as suitable. See notes 9, 10.

Notes to Eye and Face Protection Selection Chart:

1. Care should be taken to recognize the possibility of multiple and simultaneous exposure to a variety of hazards. Adequate protection against the highest level of each of the hazards should be provided. Protective devices do not provide unlimited protection.
2. Operations involving heat may also involve light radiation. As required by the standard, protection from both hazards must be provided.
3. Face shields should only be worn over primary eye protection (spectacles or goggles).
4. As required by the standard, filter lenses must meet the requirements for shade designations in WAC 296-24-07801(5). Tinted and shaded lenses are not filter lenses unless they are marked or identified as such.
5. As required by the standard, persons whose vision requires the use of prescription (Rx) lenses must wear either protective devices fitted with prescription (Rx) lenses or protective devices designed to be worn over regular prescription (Rx) eyewear.
6. Wearers of contact lenses must also wear appropriate eye and face protection devices in a hazardous environment. It should be recognized that dusty and/or chemical environments may represent an additional hazard to contact lens wearers.
7. Caution should be exercised in the use of metal frame protective devices in electrical hazard areas.
8. Atmospheric conditions and the restricted ventilation of the protector can cause lenses to fog. Frequent cleansing may be necessary
9. Welding helmets or face shields should be used only over primary eye protection (spectacles or goggles).
10. Nonsideshield spectacles are available for frontal protection only, but are not acceptable eye protection for the sources and operations listed for "impact."
11. Ventilation should be adequate, but well protected from splash entry. Eye and face protection should be designed and used so that it provides both adequate ventilation and protects the wearer from splash entry.
12. Protection from light radiation is directly related to filter lens density. See note (4). Select the darkest shade that allows task performance.

(9) Selection guidelines for head protection. All head protection (helmets) is designed to provide protection from impact and penetration hazards caused by falling or flying objects. Head protection is also available which provides protection from electric shock and burn. When selecting head protection, knowledge of potential electrical hazards is important. Class A helmets, in addition to impact and penetration resistance, provide electrical protection from low-voltage conductors (they are proof tested to 2,200 volts). Class B helmets, in addition to impact and penetration resistance, provide electrical protection from high-voltage conductors (they are proof tested to 20,000 volts). Class C helmets provide impact and penetration resistance (they are usually made of aluminum which conducts electricity), and should not be used around electrical hazards. Where falling or flying object hazards are present, helmets must be worn. Some examples include: Working below other workers who are using tools and materials which could fall; working around or under conveyor belts which are carrying parts or materials; working below machinery or processes which might cause material or objects to fall; and working on exposed energized conductors. Some examples of occupations for which head protection should be routinely considered are: Carpenters, electricians, linemen, mechanics and

repairers, plumbers and pipe fitters, assemblers, packers, wrappers, sawyers, welders, laborers, freight handlers, timber cutting and logging, stock handlers, and warehouse laborers.

(10) Selection guidelines for foot protection. Safety shoes and boots which meet the ANSI Z41-1991 Standard provide both impact and compression protection. Where necessary, safety shoes can be obtained which provide puncture protection. In some work situations, metatarsal protection should be provided, and in other special situations electrical conductive or insulating safety shoes would be appropriate. Safety shoes or boots with impact protection would be required for carrying or handling materials such as packages, objects, parts or heavy tools, which could be dropped; and, for other activities where objects might fall onto the feet. Safety shoes or boots with compression protection would be required for work activities involving skid trucks (manual material handling carts) around bulk rolls (such as paper rolls) and around heavy pipes, all of which could potentially roll over an employee's feet. Safety shoes or boots with puncture protection would be required where sharp objects such as nails, wire, tacks, screws, large staples, scrap metal, etc., could be stepped on by employees causing a foot injury. Some occupations (not a complete list) for which foot protection should be routinely considered are: Shipping and receiving clerks, stock clerks, carpenters, electricians, machinists, mechanics and repairers, plumbers and pipe fitters, structural metal workers, assemblers, drywall installers and lathers, packers, wrappers, craters, punch and stamping press operators, sawyers, welders, laborers, freight handlers, gardeners and grounds-keepers, timber cutting and logging workers, stock handlers and warehouse laborers.

(11)(a) Selection guidelines for hand protection. Gloves are often relied upon to prevent cuts, abrasions, burns, and skin contact with chemicals that are capable of causing local or systemic effects following dermal exposure. WISHA is unaware of any gloves that provide protection against all potential hand hazards, and commonly available glove materials provide only limited protection against many chemicals. Therefore, it is important to select the most appropriate glove for a particular application and to determine how long it can be worn, and whether it can be reused. It is also important to know the performance characteristics of gloves relative to the specific hazard anticipated; e.g., chemical hazards, cut hazards, flame hazards, etc. These performance characteristics should be assessed by using standard test procedures. Before purchasing gloves, the employer should request documentation from the manufacturer that the gloves meet the appropriate test standard(s) for the hazard(s) anticipated. Other factors to be considered for glove selection in general include:

(i) As long as the performance characteristics are acceptable, in certain circumstances, it may be more cost effective to regularly change cheaper gloves than to reuse more expensive types; and

(ii) The work activities of the employee should be studied to determine the degree of dexterity required, the duration, frequency, and degree of exposure of the hazard, and the physical stresses that will be applied.

(b) With respect to selection of gloves for protection against chemical hazards:

(i) The toxic properties of the chemical(s) must be determined; in particular, the ability of the chemical to cause local effects on the skin and/or to pass through the skin and cause systemic effects;

(ii) Generally, any "chemical resistant" glove can be used for dry powders;

(iii) For mixtures and formulated products (unless specific test data are available), a glove should be selected on the basis of the chemical component with the shortest breakthrough time, since it is possible for solvents to carry active ingredients through polymeric materials; and

(iv) Employees must be able to remove the gloves in such a manner as to prevent skin contamination.

(12) Cleaning and maintenance. It is important that all PPE be kept clean and properly maintained. Cleaning is particularly important for eye and face protection where dirty or fogged lenses could impair vision. For the purposes of compliance with WAC 296-24-07501 (1)(a) and (b), PPE should be inspected, cleaned, and maintained at regular intervals so that the PPE provides the requisite protection. It is also important to ensure that contaminated PPE which cannot be decontaminated is disposed of in a manner that protects employees from exposure to hazards.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-098, filed 9/30/94, effective 11/20/94.]

PART A-3
LATE NIGHT RETAIL WORKER CRIME PROTECTION

WAC 296-24-102 Scope and application. Application of this section is limited to retail establishments operating between the hours of 11:00 p.m. and 6:00 a.m. with the exception of restaurants, hotels, taverns, or any lodging facility.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-102, filed 1/11/90, effective 2/26/90.]

WAC 296-24-10203 General requirements. (1) All employers operating late night retail establishments shall provide crime prevention training to their employees.

(2) Crime prevention training shall be a part of the accident prevention program requirements imposed pursuant to WAC 296-24-040.

(3) The employer shall provide training to ensure that the purpose and function of robbery and violence prevention are understood by employees and that the knowledge and skills required for their safety have been provided. The employer shall:

(a) Provide training and training materials that outline security policies, safety and security procedures, and personal safety and crime avoidance techniques.

(b) Provide formal instruction through a training seminar or training video presentation and upon completion require the employee to sign off on the date, time, and place of training. The training documentation will be placed in the employee's personnel file. The following elements shall be included in the crime prevention training program:

(i) An explanation of the importance of keeping the store clean, neat, and uncluttered thereby making it as unattractive as possible to robbers.

(ii) Provide explanation of the purpose of maintaining an unobstructed view of the cash register from outside the store, provided the cash register is located in a position visible from the street.

(iii) Provide instruction on reasons for operating only minimum number of cash registers at night.

(iv) Keeping the cash register fund to a minimum.

(v) Taking extra precautions after dark, i.e., keep alert, observe lighting and dark corners, spot possible hiding places.

(vi) Violence prevention procedures in case of robbery.

(vii) Provide a refresher course on crime prevention on or near the employee's anniversary date. Videotape and crime prevention material shall be available for employee's review at their request.

(4) In addition to providing crime prevention training as defined in this section, all employers operating late night retail establishments shall:

(a) Post a conspicuous sign in the window or door which states that there is a safe on the premises and it is not accessible to the employees on the premises and that the cash register contains only the minimal amount of cash needed to conduct business: No employer shall be subject to citation and penalty for having moneys in the cash register in excess of the minimal amount needed to conduct business.

(b) All displays, and any other material posted in window(s) or door(s) should be arranged so as to provide a clear and unobstructed view of the cash register; provided the cash register is located in such a position so as to be visible from the street.

(c) Have a drop-safe, limited access safe, or comparable device on the premises.

(d) Operate the outside lights for that portion of the approach and parking area that is necessary to accommodate customers during all night hours the late night retail establishment is open. This may be accomplished through:

(i) Surveillance lighting - to detect and observe pedestrian and vehicular entrances.

(ii) Providing adequate illuminances - adequate illuminance throughout the pedestrian and vehicular entrance areas should be a minimum of one foot candle to comply with ANSI/IES RP7-1983.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-10203, filed 1/11/90, effective 2/26/90.]

PART A-4
SAFETY PROCEDURES

WAC 296-24-110 The control of hazardous energy (lockout/tagout).

[Statutory Authority: Chapter 49.17 RCW. 90-20-091 (Order 90-14), § 296-24-110, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11001 Scope, application, and purpose.

(1) Scope.

(a) This standard covers the servicing and maintenance of machines and equipment in which the unexpected energization or start up of the machine or equipment or release of stored energy could cause injury to employees. This standard establishes minimum performance requirements for the control of such hazardous energy. This section shall apply to agriculture March 1, 1995.

(b) This standard does not cover the following:

(i) Construction and maritime employment;

(ii) Installations under the exclusive control of electric utilities for the purpose of power generation, transmission, and distribution, including related equipment for communications or metering; and

(iii) Exposure to electrical hazards from work on, near, or with conductors or equipment in electric utilization installations, which is covered by Part L of chapter 296-24 WAC; and

(iv) Oil and gas well drilling and servicing.

(2) Application.

(a) This standard applies to the control of energy during servicing and/or maintenance of machines and equipment.

(b) Normal production operations are not covered by this standard (see Part C of chapter 296-24 WAC). Servicing and/or maintenance which takes place during normal production operations is covered by this standard only if:

(i) An employee is required to remove or bypass a guard or other safety device; or

(ii) An employee is required to place any part of his or her body into an area on a machine or piece of equipment where work is actually performed upon the material being processed (point of operation) or where an associated danger zone exists during a machine operating cycle.

Note: Exception to subdivision (b) of this subsection. Minor tool changes and adjustments, and other minor servicing activities, which take place during normal production operations, are not covered by this standard if they are routine, repetitive, and integral to the use of the equipment for production, provided that the work is performed using alternative measures which provide effective protection (see Part C of chapter 296-24 WAC).

(c) This standard does not apply to the following:

(i) Work on cord and plug connected electric equipment for which exposure to the hazards of unexpected energization or start up of the equipment is controlled by the unplugging of the equipment from the energy source and by the plug being under the exclusive control of the employee performing the servicing or maintenance.

(ii) Hot tap operations involving transmission and distribution systems for substances such as gas, steam, water, or petroleum products when they are performed on pressurized pipelines, provided that the employer demonstrates that:

(A) Continuity of service is essential;

(B) Shutdown of the system is impractical; and

(C) Documented procedures are followed, and special equipment is used which will provide proven effective protection for employees.

(3) Purpose.

(a) This section requires employers to establish a written program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices, and to otherwise disable machines or equipment to prevent unexpected energization, start-up, or release of stored energy in order to prevent injury to employees.

(b) When other Title 296 WAC vertical standards require the use of lockout or tagout, they shall be used and supplemented by the procedural and training requirements of this part.

[Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-24-11001, filed 3/2/94, effective 3/1/95. Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11001, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11001, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11001, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11003 Definitions applicable to this part. (1) Affected employee. An employee whose job requires him/her to operate or use a machine or equipment on which servicing or maintenance is being performed under lockout or tagout, or whose job requires him/her to work in an area in which such servicing or maintenance is being performed.

(2) Authorized employee. A person who locks out or tags out machines or equipment in order to perform servicing or maintenance on that machine or equipment. An affected employee becomes an authorized employee when that employee's duties include performing servicing or maintenance covered under this part.

(3) Capable of being locked out. An energy isolating device is capable of being locked out if it has a hasp or other means of attachment to which, or through which, a lock can be affixed, or it has a locking mechanism built into it. Other energy isolating devices are capable of being locked out, if lockout can be achieved without the need to dismantle, rebuild, or replace the energy isolating device or permanently alter its energy control capability.

(4) Energized. Connected to an energy source or containing residual or stored energy.

(5) Energy isolating device. A mechanical device that physically prevents the transmission or release of energy, including but not limited to the following: A manually operated electrical circuit breaker; a disconnect switch; a manually operated switch by which the conductors of a circuit can be disconnected from all ungrounded supply conductors and, in addition, no pole can be operated independently; a line valve; a block; and any similar device used to block or isolate energy. Push buttons, selector switches, and other control circuit type devices are not energy isolating devices.

(6) Energy source. Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal or other energy, including gravity.

(7) Hot tap. A procedure used in the repair, maintenance, and services activities which involves welding on a piece of equipment (pipelines, vessels, or tanks) under pressure, in order to install connections or appurtenances. It is commonly used to replace or add sections of pipeline without the interruption of service for air, gas, water, steam, and petrochemical distribution systems.

(8) Lockout. The placement of a lockout device on an energy isolating device, in accordance with an established procedure, ensuring that the energy isolating device and the equipment being controlled cannot be operated until the lockout device is removed.

(9) Lockout device. A device that utilizes a positive means such as a lock, either key or combination type, to hold an energy isolating device in the safe position and prevents the energizing of a machine or equipment. Included are blank flanges and bolted slip blinds.

(10) Normal production operations. The utilization of a machine or equipment to perform its intended production function.

(11) Servicing and/or maintenance. Workplace activities such as constructing, installing, setting up, adjusting, inspecting, modifying, and maintaining and/or servicing machines or equipment. These activities include lubrication, cleaning, or unjamming of machines or equipment and making adjustments or tool changes, where the employee may be exposed to the unexpected energization or startup of the equipment or release of hazardous energy.

(12) Setting up. Any work performed to prepare a machine or equipment to perform its normal production operation.

(13) Tagout. The placement of a tagout device on an energy isolating device, in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

(14) Tagout device. A prominent warning device, such as a tag and a means of attachment, which can be securely fastened to an energy isolating device in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

[Statutory Authority: Chapter 49.17 RCW. 93-19-142 (Order 93-04), § 296-24-11003, filed 9/22/93, effective 11/1/93. Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11003, filed 10/30/92, effective 12/08/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11003, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11003, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11005 General. (1) Energy control program. The employer shall establish a written program consisting of an energy control procedure, employee training and periodic inspections to ensure that before any employee performs any servicing or maintenance on a machine or equipment where the unexpected energizing, start up, or release of stored energy could occur and cause injury, the machine or equipment shall be isolated from the energy source, and rendered inoperative.

(2) Lockout/tagout.

(a) If an energy isolating device is not capable of being locked out, the employer's energy control program under subsection (1) of this section shall utilize a tagout system.

(b) If an energy isolating device is capable of being locked out, the employer's energy control program under subsection (1) of this section shall utilize lockout unless the employer can demonstrate that the utilization of a tagout system will provide full employee protection as set forth in subsection (3) of this section.

(c) After the effective date of this section, whenever major replacement or major repair, renovation, or modification of a machine or equipment is performed, and whenever new machines or equipment are installed, energy isolating

devices for such machines or equipment shall be designed to accept a lockout device.

(3) Full employee protection.

(a) When a tagout device is used on an energy isolating device which is capable of being locked out, the tagout device shall be attached at the same location that the lockout device would have been attached, and the employer shall demonstrate that the tagout program will provide a level of safety equivalent to that obtained by using a lockout program.

(b) In demonstrating that a level of safety is achieved in the tagout program which is equivalent to the level of safety obtained by using a lockout program, the employer shall demonstrate full compliance with all tagout-related provisions of this standard together with such additional elements as are necessary to provide the equivalent safety available from the use of a lockout device. Additional means to be considered as part of the demonstration of full employee protection shall include the implementation of additional safety measures such as the removal of an isolating circuit element, blocking of a controlling switch, opening of an extra disconnecting device, or the removal of a valve handle to reduce the likelihood of inadvertent energization.

(4) Energy control procedure.

(a) Procedures shall be developed, documented, and utilized for the control of potentially hazardous energy when employees are engaged in the activities covered by this section.

Note: Exception: The employer need not document the required procedure for a particular machine or equipment when all of the following elements exist:
(i) The machine or equipment has no potential for stored or residual energy or reaccumulation of stored energy after shut down which could endanger employees;
(ii) The machine or equipment has a single energy source which can be readily identified and isolated;
(iii) The isolation and locking out of that energy source will completely deenergize and deactivate the machine or equipment;
(iv) The machine or equipment is isolated from that energy source and locked out during servicing or maintenance;
(v) A single lockout device will achieve a locked-out condition;
(vi) The lockout device is under the exclusive control of the authorized employee performing the servicing or maintenance;
(vii) The servicing or maintenance does not create hazards for other employees; and
(viii) The employer, in utilizing this exception, has had no accidents involving the unexpected activation or reenergization of the machine or equipment during servicing or maintenance.

(b) The procedures shall clearly and specifically outline the scope, purpose, authorization, rules, and techniques to be utilized for the control of hazardous energy, and the means to enforce compliance including, but not limited to, the following:

(i) A specific statement of the intended use of the procedure;

(ii) Specific procedural steps for shutting down, isolating, blocking, and securing machines or equipment to control hazardous energy;

(iii) Specific procedural steps for the placement, removal, and transfer of lockout devices or tagout devices and the responsibility for them; and

(iv) Specific requirements for testing a machine or equipment to determine and verify the effectiveness of lockout devices, tagout devices, and other energy control measures.

(5) Protective materials and hardware.

(a) Locks, tags, chains, wedges, key blocks, adapter pins, self-locking fasteners, or other hardware shall be provided by the employer for isolating, securing, or blocking of machines or equipment from energy sources.

(b) Lockout devices and tagout devices shall be singularly identified; shall be the only device(s) used for controlling energy; shall not be used for other purposes; and shall meet the following requirements:

(i) Durable.

(A) Lockout devices and tagout devices shall be capable of withstanding the environment to which they are exposed for the maximum period of time that exposure is expected.

(B) Tagout devices shall be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or the message on the tag to become illegible.

(C) Tags shall not deteriorate when used in corrosive environments such as areas where acid and alkali chemicals are handled and stored.

(ii) Standardized. Lockout and tagout devices shall be standardized within the facility in at least one of the following criteria: Color; shape; or size; and additionally, in the case of tagout devices, print and format shall be standardized.

(iii) Substantial.

(A) Lockout devices. Lockout devices shall be substantial enough to prevent removal without the use of excessive force or unusual techniques, such as with the use of bolt cutters or other metal cutting tools.

(B) Tagout devices. Tagout devices, including and their means of attachment, shall be substantial enough to prevent inadvertent or accidental removal. Tagout device attachment means shall be of a nonreusable type, attachable by hand, self-locking, and nonreleasable with a minimum unlocking strength of no less than 50 pounds and having the general design and basic characteristics of being at least equivalent to a one-piece, all-environment-tolerant nylon cable tie.

(C) Identifiable. Lockout devices and tagout devices shall indicate the identity of the employee applying the device(s).

(c) Tagout devices shall warn against hazardous conditions if the machine or equipment is energized and shall include a legend such as the following: Do not start, do not open, do not close, do not energize, do not operate.

(6) Periodic inspection.

(a) The employer shall conduct a periodic inspection of the energy control procedure at least annually to ensure that the procedure and the requirements of this standard are being followed.

(i) The periodic inspection shall be performed by an authorized employee other than the one(s) utilizing the energy control procedure being inspected.

(ii) The periodic inspection shall be conducted to correct any deviations or inadequacies identified.

(iii) Where lockout is used for energy control, the periodic inspection shall include a review, between the inspector and each authorized employee, of that employee's responsibilities under the energy control procedure being inspected.

(iv) Where tagout is used for energy control, the periodic inspection shall include a review, between the inspector and each authorized and affected employee, of that employee's responsibilities under the energy control procedure being inspected, and the elements set forth in subsection (7)(b) of this section.

(b) The employer shall certify that the periodic inspections have been performed. The certification shall identify the machine or equipment on which the energy control procedure was being utilized, the date of the inspection, the employees included in the inspection, and the person performing the inspection.

(7) Training and communication.

(a) The employer shall provide training to ensure that the purpose and function of the energy control program are understood by employees and that the knowledge and skills required for the safe application, usage, and removal of the energy controls are acquired by employees. The training shall include the following:

(i) Each authorized employee shall receive training in the recognition of applicable hazardous energy sources, the type and magnitude of the energy available in the workplace, and the methods and means necessary for energy isolation and control.

(ii) Each affected employee shall be instructed in the purpose and use of the energy control procedure.

(iii) All other employees whose work operations are or may be in an area where energy control procedures may be utilized, shall be instructed about the procedure, and about the prohibition relating to attempts to restart or reenergize machines or equipment which are locked out or tagged out.

(b) When tagout systems are used, employees shall also be trained in the following limitations of tags:

(i) Tags are essentially warning devices affixed to energy isolating devices, and do not provide the physical restraint on those devices that is provided by a lock.

(ii) When a tag is attached to an energy isolating means, it is not to be removed without authorization of the authorized person responsible for it, and it is never to be bypassed, ignored, or otherwise defeated.

(iii) Tags must be legible and understandable by all authorized employees, affected employees, and all other employees whose work operations are or may be in the area, in order to be effective.

(iv) Tags and their means of attachment must be made of materials which will withstand the environmental conditions encountered in the workplace.

(v) Tags may evoke a false sense of security, and their meaning needs to be understood as part of the overall energy control program.

(vi) Tags must be securely attached to energy isolating devices so that they cannot be inadvertently or accidentally detached during use.

(c) Employee retraining.

(i) Retraining shall be provided for all authorized and affected employees whenever there is a change in their job assignments, a change in machines, equipment or processes that present a new hazard, or when there is a change in the energy control procedures.

(ii) Additional retraining shall also be conducted whenever a periodic inspection under subsection (6) of this section reveals, or whenever the employer has reason to believe, that there are deviations from or inadequacies in the employee's knowledge or use of the energy control procedures.

(iii) The retraining shall reestablish employee proficiency and introduce new or revised control methods and procedures, as necessary.

(d) The employer shall certify that employee training has been accomplished and is being kept up to date. The certification shall contain each employee's name and dates of training.

(8) Energy isolation. Lockout or tagout shall be performed only by authorized employees who are performing the servicing or maintenance.

(9) Notification of employees. Affected employees shall be notified by the employer or authorized employee of the application and removal of lockout devices or tagout devices. Notification shall be given before the controls are applied, and after they are removed from the machine or equipment.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11005, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11005, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11005, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11007 Application of control. (1) The established procedures for the application of energy control (the lockout or tagout procedures) shall cover the following elements and actions and shall be done in the following sequence:

(a) Preparation for shutdown. Before an authorized or affected employee turns off a machine or equipment, the authorized employee shall have knowledge of the type and magnitude of the energy, the hazards of the energy to be controlled, and the method or means to control the energy.

(b) Machine or equipment shutdown. The machine or equipment shall be turned off or shut down using the procedures established for the machine or equipment. An orderly shutdown must be utilized to avoid any additional or increased hazard(s) to employees as a result of equipment stoppage.

(c) Machine or equipment isolation. All energy isolating devices that are needed to control the energy to the machine or equipment shall be physically located and operated in such a manner as to isolate the machine or equipment from the energy source(s).

(2) Lockout or tagout device application.

(a) Lockout or tagout devices shall be affixed to each energy isolating device by authorized employees.

(b) Lockout devices, where used, shall be affixed in a manner that will hold the energy isolating devices in a "safe" or "off" position.

(c) Tagout devices, where used, shall be affixed in such a manner as will clearly indicate that the operation or movement of energy isolating devices from the "safe" or "off" position is prohibited.

(i) Where tagout devices are used with energy isolating devices designed with the capability of being locked, the tag attachment shall be fastened at the same point at which the lock would have been attached.

(ii) Where a tag cannot be affixed directly to the energy isolating device, the tag shall be located as close as safely possible to the device, in a position that will be immediately obvious to anyone attempting to operate
the device.

(3) Stored energy.

(a) Following the application of lockout or tagout devices to energy isolating devices, all potentially hazardous stored or residual energy shall be relieved, disconnected, restrained, and otherwise rendered safe.

(b) If there is a possibility of reaccumulation of stored energy to a hazardous level, verification of isolation shall be continued until the servicing or maintenance is completed, or until the possibility of such accumulation no longer exists.

(4) Verification of isolation. Prior to starting work on machines or equipment that have been locked out or tagged out, the authorized employee shall verify that isolation and deenergization of the machine or equipment have been accomplished.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11007, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11007, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11007, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11009 Release from lockout or tagout. (1) Release from lockout or tagout.

(a) Before lockout or tagout devices are removed and energy is restored to the machine or equipment, procedures shall be followed and actions taken by the authorized employee(s) to ensure the following:

(b) The machine or equipment. The work area shall be inspected to ensure that nonessential items have been removed and to ensure that machine or equipment components are operationally intact.

(2) Employees.

(a) The work area shall be checked to ensure that all employees have been safely positioned or removed.

(b) After lockout or tagout devices have been removed and before a machine or equipment is started, affected employees shall be notified that the lockout or tagout device(s) have been removed.

(3) Lockout or tagout devices removal. Each lockout or tagout device shall be removed from each energy isolating device by the employee who applied the device. Exception: When the authorized employee who applied the lockout or tagout device is not available to remove it, that device may be removed under the direction of the employer, provided that specific procedures and training for such removal have been developed, documented, and incorporated into the employer's energy control program. The employer shall demonstrate that the specific procedure provides equivalent safety to the removal of the device by the authorized employee who applied it. The specific procedure shall include at least the following elements:

(a) Verification by the employer that the authorized employee who applied the device is not at the facility;

(b) Making all reasonable efforts to contact the authorized employee to inform him/her that his/her lockout or tagout device has been removed; and

(c) Ensuring that the authorized employee has this knowledge before he/she resumes work at that facility.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11009, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11009, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11009, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11011 Additional requirements. (1) Testing or positioning of machines, equipment, or components thereof.

In situations in which lockout or tagout devices must be temporarily removed from the energy isolating device and the machine or equipment energized to test or position the machine, equipment or component thereof, the following sequence of actions shall be followed:

(a) Clear the machine or equipment of tools and materials in accordance with WAC 296-24-11009 (1)(b);

(b) Remove employees from the machine or equipment area in accordance with WAC 296-24-11009(2);

(c) Remove the lockout or tagout devices as specified in WAC 296-24-11009(3);

(d) Energize and proceed with testing or positioning;

(e) Deenergize all systems and reapply energy control measures in accordance with WAC 296-24-11007 to continue the servicing and/or maintenance.

(2) Outside personnel (contractors, etc.).

(a) Whenever outside servicing personnel are to be engaged in activities covered by the scope and application of this standard, the on-site employer and the outside employer shall inform each other of their respective lockout or tagout procedures.

(b) The outside employer shall assure that his/her employees understand and comply with the restrictions and prohibitions of the on-site employer's energy control program.

(3) Group lockout or tagout.

(a) When servicing and/or maintenance is performed by a crew, craft, department or other group, they shall utilize a procedure which affords the employees a level of protection equivalent to that provided by the implementation of a personal lockout or tagout device.

(b) Group lockout or tagout devices shall be used in accordance with the procedures required by WAC 296-24-11005(4) including, but not necessarily limited to, the following specific requirements:

(i) Primary responsibility is vested in an authorized employee for a set number of employees working under the protection of a group lockout or tagout device (such as an operations lock);

(ii) Provision for the authorized employee to ascertain the exposure status of individual group members with regard to the lockout or tagout of the machine or equipment; and

(iii) When more than one crew, craft, department, etc., is involved, assignment of overall job-associated lockout or tagout control responsibility to an authorized employee designated to coordinate affected work forces and ensure continuity of protection; and

(iv) Each authorized employee shall affix a personal lockout or tagout device to the group lockout device, group lockbox, or comparable mechanism when he or she begins

work, and shall remove those devices when he or she stops working on the machine or equipment being serviced or maintained.

(4) Shift or personnel changes. Specific procedures shall be utilized during shift or personnel changes to ensure the continuity of lockout or tagout protection, including provision for the orderly transfer of lockout or tagout device protection between off-going and oncoming employees, to minimize exposure to hazards from the unexpected energization or start-up of the machine or equipment, or release of stored energy.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11011, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11011, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11011, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11013 Reserved.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11013, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11013, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11013, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11015 Reserved.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11015, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11015, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11015, filed 10/1/90, effective 11/15/90.]

WAC 296-24-11017 Reserved.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-11017, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-11017, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-11017, filed 10/1/90, effective 11/15/90.]

WAC 296-24-119 Appendices.

APPENDIX A

Appendix A - Typical Minimal Lockout Procedure—Nonmandatory.

(1) General.

The following simple lockout procedure is provided to assist employers in developing their procedures so they meet the requirements of this standard. When the energy isolating devices are not lockable, tagout may be used, provided the employer complies with the provisions of the standard which require additional training and more rigorous periodic inspections. When tagout is used and the energy isolating devices are lockable, the employer must provide full employee protection (see WAC 296-24-11005(3)) and additional training and more rigorous periodic inspections are required. For more complex systems, more comprehensive procedures may need to be developed, documented and utilized.

Lockout Procedure

Lockout procedure for

(Name of Company for single procedure or identification of equipment if multiple procedures are used.)

(2) Purpose.

This procedure establishes the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment. It shall be used to ensure that the machine or equipment is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any servicing or maintenance where the unexpected energization or start-up of the machine or equipment or release of stored energy could cause injury.

(3) Compliance with this program.

(a) All employees are required to comply with the restrictions and limitations imposed upon them during the use of lockout. The authorized employees are required to perform the lockout in accordance with this procedure. All employees, upon observing a machine or piece of equipment which is locked out to perform servicing or maintenance shall not attempt to start, energize or use that machine or equipment.

(b) Type of compliance enforcement to be taken for violation of the above.

(4) Sequence of lockout.

(a) Notify all affected employees that servicing or maintenance is required on a machine or equipment and that the machine or equipment must be shut down and locked out to perform the servicing or maintenance.

Name(s)/job title(s) of affected employees and how to notify.

(b) The authorized employee shall refer to the company procedure to identify the type and magnitude of the energy that the machine or equipment utilizes, shall understand the hazards of the energy, and shall know the methods to control the energy.

Type(s) and magnitude(s) of energy, its hazards and the methods to control the energy.

(c) If the machine or equipment is operating, shut it down by the normal stopping procedure (depress stop button, open switch, close valve, etc.).

Type(s) and location(s) of machine or equipment operating controls.

(d) Deactivate the energy isolating device(s) so that the machine or equipment is isolated from the energy source(s).

Type(s) and location(s) of energy isolating devices.

(e) Lock out the energy isolating device(s) with assigned individual lock(s).

(f) Stored or residual energy (such as that in capacitors, springs, elevated machine members, rotating flywheels, hydraulic systems, and air, gas, steam, or water pressure, etc.) must be dissipated or restrained by methods such as grounding, repositioning, blocking, bleeding down, etc.

Type(s) of stored energy - methods to dissipate or restrain.

(g) Ensure that the equipment is disconnected from the energy source(s) by first checking that no personnel are exposed, then verify the isolation of the equipment by operating the push button or other normal operating control(s) or by testing to make certain the equipment will not operate.

CAUTION: Return operating control(s) to neutral or "off" position after verifying the isolation of the equipment.

Method of verifying the isolation of the equipment.

(h) The machine or equipment is now locked out.

(5) Restoring equipment to service.

(a) When the servicing or maintenance is completed and the machine or equipment is ready to return to normal operating condition, the following steps shall be taken.

(b) Check the machine or equipment and the immediate area around the machine or equipment to ensure that nonessential items have been removed and that the machine or equipment components are operationally intact.

(c) Check the work area to ensure that all employees have been safely positioned or removed from the area.

(d) Verify that the controls are in neutral.

(e) Remove the lockout devices and reenergize the machine or equipment.

Note: The removal of some forms of blocking may require reenergization of the machine before safe removal.

(f) Notify affected employees that the servicing or maintenance is completed and the machine or equipment is ready for use.

[Statutory Authority: Chapter 49.17 RCW and RCW 49.17.040, [49.17].050 and [49.17].060. 92-22-067 (Order 92-06), § 296-24-119, filed 10/30/92, effective 12/8/92. Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-119, filed 5/20/91, effective 6/20/91; 90-20-091 (Order 90-14), § 296-24-119, filed 10/1/90, effective 11/15/90.]

PART B-1
SANITATION, TEMPORARY LABOR CAMPS AND NONWATER CARRIAGE DISPOSAL SYSTEMS

Sanitation

WAC 296-24-120 Sanitation.

Note: Rules and regulations of the state board of health governing sanitation of places of work shall be complied with by every employer, and shall be enforced as provided for by statute law (RCW 43.20.050).

[Order 73-5, § 296-24-120, filed 5/9/73 and Order 73-4, § 296-24-120, filed 5/7/73.]

WAC 296-24-12001 Scope. This scope includes all sections of WAC 296-24-120 in the numbering and applies to all permanent places of employment except where domestic, or mining work only is performed. The shower requirements in WAC 296-24-12009(3) are not applicable to agricultural operations. Measures for the control of toxic materials are considered to be outside the scope of this section.

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-12001, filed 10/20/95, effective 1/16/96. Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-24-12001, filed 3/2/94, effective 3/1/95; Order 74-27, § 296-24-12001, filed 5/7/74; Order 73-5, § 296-24-12001, filed 5/9/73 and Order 73-4, § 296-24-12001, filed 5/7/73.]

WAC 296-24-12002 Definitions. The following definitions are applicable to all sections of this chapter which include WAC 296-24-120 in the section number.

(1) "Lavatory" means a basin or similar vessel used exclusively for washing of the hands, arms, face and head.

(2) "Nonwater carriage toilet facility" means a toilet facility not connected to a sewer.

(3) "Number of employees" means, unless otherwise specified, the maximum number of employees present at any one time on a regular shift.

(4) "Personal service room" means a room used for activities not directly connected with the production or service function performed by the establishment. Such activities include but are not limited to, first aid, medical services, dressing, showering, toilet use, washing, and eating.

(5) "Potable water" means water which meets the quality standards for drinking purposes of state or local authority having jurisdiction or water that meets the quality standards prescribed by the United States Environmental Protection Agency's National Interim Primary Drinking Water Regulations, published in 40 CFR Part 141, and 40 CFR 147.2400.

(6) "Toilet facility" means a fixture maintained within a toilet room for the purpose of defecation or urination, or both.

(7) "Toilet room" means a room maintained within or on the premises of any place of employment, containing toilet facilities for use by employees.

(8) "Toxic material" means a material in concentration or amount which exceeds the applicable limit established by a standard, such as chapter 296-62 WAC or, in the absence of an applicable standard, which is of such toxicity so as to constitute a recognized hazard that is causing or is likely to cause death or serious physical harm.

(9) "Urinal" means a toilet facility maintained within a toilet room for the sole purpose of urination.

(10) "Water closet" means a toilet facility maintained within a toilet room for the purpose of both defecation and urination and which is flushed with water.

(11) "Wet process" means any process or operation in a workroom which normally results in surfaces upon which employees may walk or stand becoming wet.

[Statutory Authority: Chapter 49.17 RCW. 91-11-070 (Order 91-01), § 296-24-12002, filed 5/20/91, effective 6/20/91; Order 74-27, § 296-24-12002, filed 5/7/74.]

WAC 296-24-12003 General requirements. Housekeeping.

(1) All places of employment shall be kept clean to the extent that the nature of the work allows.

(2) The floor of every workroom shall be maintained so far as practicable in a dry condition. Where wet processes are used, drainage shall be maintained and false floors, platforms, mats, or other dry standing places shall be provided, where practicable, or appropriate waterproof footgear shall be provided.

(3) To facilitate cleaning, every floor, working place, and passageway shall be kept free from protruding nails, splinters, loose boards and unneccessary holes and openings.

(4) Cleaning and sweeping shall be done in such a manner as to minimize the contamination of the air with dust and so far as is practicable, shall be done outside of working hours.

[Order 74-27, § 296-24-12003, filed 5/7/74; Order 73-5, § 296-24-12003, filed 5/9/73 and Order 73-4, § 296-24-12003, filed 5/7/73.]

WAC 296-24-12005 Water supply. (1) Potable water.

(a) Potable water shall be provided in all places of employment, for drinking, washing of the person, cooking, washing of foods, washing of cooking or eating utensils, washing of food preparation or processing premises, and personal service rooms.

(b) Portable drinking water dispensers shall be designed, constructed, and serviced so that sanitary conditions are maintained, shall be capable of being closed, and shall be equipped with a tap.

(c) Open containers such as barrels, pails, or tanks for drinking water from which the water must be dipped or poured, whether or not they are fitted with a cover, are prohibited.

(d) A common drinking cup and other common utensils are prohibited.

(2) Nonpotable water.

(a) Outlets for nonpotable water, such as water for industrial or firefighting purposes shall be posted or otherwise marked in a manner that will indicate clearly that the water is unsafe and is not to be used for drinking, washing of the person, cooking, washing of food, washing of cooking or eating utensils, washing of food preparation or processing premises, or personal service rooms, or for washing clothes.

(b) Construction of nonpotable water systems or systems carrying any other nonpotable substance shall be such as to prevent backflow or backsiphonage into a potable water system.

Nonpotable water shall not be used for washing any portion of the person, cooking or eating utensils, or clothing. Nonpotable water may be used for cleaning work premises, other than food processing and preparation premises and personal service rooms: *Provided,* That this nonpotable water does not contain concentrations of chemicals, fecal coliform, or other substances which could create unsanitary conditions or be harmful to employees.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-13-045 (Order 82-22), § 296-24-12005, filed 6/11/82; Order 74-27, § 296-24-12005, filed 5/7/74; Order 73-5, § 296-24-12005, filed 5/9/73 and Order 73-4, § 296-24-12005, filed 5/7/73.]

WAC 296-24-12007 Toilet facilities. (1) General.

(a) Except as otherwise indicated in this section, toilet facilities, in toilet rooms separate for each sex, shall be provided in all places of employment in accordance with Table B-1 of this section. The number of facilities to be provided for each sex shall be based on the number of employees of that sex for whom the facilities are furnished. Where toilet rooms will be occupied by no more than one person at a time, can be locked from the inside, and contain at least one water closet, separate toilet rooms for each sex need not be provided. Where such single-occupancy rooms have more than one toilet facility, only one such facility in each toilet room shall be counted for the purpose to Table B-1.

TABLE B-1

Number of employees:	Minimum number of water closets
1 to 15	1
16 to 35	2
36 to 55	3
56 to 80	4
81 to 110	5
111 to 150	6
Over 150	One additional fixture for each additional 40 employees

Where toilet facilities will not be used by women, urinals may be provided instead of water closets, except that the number of water closets in such cases shall not be reduced to less than 2/3 of the minimum specified.

(b) The requirements of subdivision (a) of this subsection do not apply to mobile crews or to normally unattended work locations so long as employees working at these locations have transportation immediately available to nearby toilet facilities which meet the other requirements of this section.

(c) The sewage disposal method shall not endanger the health of employees.

(d) Toilet paper with holder shall be provided for every water closet.

(2) Construction of toilet rooms. Each water closet shall occupy a separate compartment with a door and walls or partitions between fixtures sufficiently high to assure privacy.

[Statutory Authority: Chapter 49.17 RCW. 87-24-051 (Order 87-24), § 296-24-12007, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-12007, filed 12/24/81. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-12007, filed 11/13/80; Order 74-27, § 296-24-12007, filed 5/7/74; Order 73-5, § 296-24-12007, filed 5/9/73 and Order 73-4, § 296-24-12007, filed 5/7/73.]

WAC 296-24-12009 Washing facilities. (1) General. Facilities for maintaining personal cleanliness shall be provided in every place of employment pursuant to the provisions of this section. These shall be convenient for the employees for whom they are provided and shall be maintained in a sanitary condition.

(2) Lavatories.

(a) Lavatories shall be made available in all places of employment. The requirements of this subsection do not apply to mobile crews or to normally unattended work locations if employees working at these locations have transportation readily available to nearby washing facilities which meet the other requirements of this section.

(b) Each lavatory shall be provided with hot and cold running water, or tepid running water.

(c) Hand soap or similar cleansing agents shall be provided.

(d) Individual hand towels or sections thereof, of cloth or paper, warm air blowers or clean individual sections of continuous cloth toweling, convenient to the lavatories, shall be provided.

(3) Showers.

(a) Showers are mandatory on exit from the jobsite when residual chemicals allowed to remain on the skin between work shifts could cause a serious occupational illness.

(b) The employer is responsible for identifying such potential hazards and for insisting that the employee shower at the end of the shift.

(c) Whenever showers are required by a particular standard, the showers shall be provided, in accordance with items (i) through (iv) as follows:

(i) One shower shall be provided for each 10 employees of each sex, or numerical fraction thereof, who are required to shower during the same shift.

(ii) Body soap or other appropriate cleansing agents convenient to the showers shall be provided as specified in this section.

(iii) Showers shall be provided with hot and cold water feeding a common discharge line.

(iv) Employees who use showers shall be provided with individual clean towels.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-12009, filed 1/11/90, effective 2/26/90. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-08-026 (Order 82-10), § 296-24-12009, filed 3/30/82. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-12009, filed 11/13/80; Order 74-27, § 296-24-12009, filed 5/7/74; Order 73-5, § 296-24-12009, filed 5/9/73 and Order 73-4, § 296-24-12009, filed 5/7/73.]

WAC 296-24-12011 Change rooms. (1) Whenever employees are required by a particular standard to wear protective clothing because of the possibility of contamination with toxic materials, change rooms equipped with storage facilities for street clothes and separate storage facilities for the protective clothing shall be provided.

(2) Clothes drying facilities. Where working clothes are provided by the employer and become wet or are washed between shifts, provisions shall be made to insure that such clothing is dry before reuse.

[Order 74-27, § 296-24-12011, filed 5/7/74; Order 73-5, § 296-24-12011, filed 5/9/73 and Order 73-4, § 296-24-12011, filed 5/7/73.]

WAC 296-24-12017 Consumption of food and beverages on the premises. (1) Application. This section shall apply only where employees are permitted to consume food or beverages, or both, on the premises.

(2) Eating and drinking areas. No employee shall be allowed to consume food or beverages in a toilet room nor in any area exposed to a toxic material.

(3) In every establishment where there is exposure to injurious dusts or other toxic materials, a separate lunchroom shall be maintained unless it is convenient for the employees to lunch away from the premises. The following number of square feet per person, based on the maximum number of persons using the room at one time, shall be required:

Number of persons	Square feet per person
25 and less	13
26-74	12
75-149	11
150 and over	10

(4) Waste disposal containers. Receptacles, constructed of smooth, corrosion resistant, easily cleanable, or disposable materials, shall be provided and used for the disposal of waste food. The number, size, and location of such receptacles shall encourage their use and not result in overfilling. They shall be emptied not less frequently than once each working day, unless unused, and shall be maintained in a clean and sanitary condition. Receptacles shall be provided with a solid tight-fitting cover unless sanitary conditions can be maintained without use of a cover.

(5) Sanitary storage. No food or beverages shall be stored in toilet rooms or in an area exposed to a toxic material.

(6) Food handling. All employee food service facilities and operations shall be carried out in accordance with sound hygienic principles. In all places of employment where all or part of the food service is provided, the food dispensed shall be wholesome, free from spoilage, and shall be processed, prepared, handled, and stored in such a manner as to be protected against contamination.

[Order 76-6, § 296-24-12017, filed 3/1/76; Order 74-27, § 296-24-12017, filed 5/7/74.]

WAC 296-24-12019 Waste disposal. (1) Any receptacle used for putrescible solid or liquid waste or refuse shall be so constructed that it does not leak and may be thoroughly cleaned and maintained in a sanitary condition. Such a receptacle shall be equipped with a solid tight-fitting cover, unless it can be maintained in a sanitary condition without a cover. This requirement does not prohibit the use of receptacles which are designed to permit the maintenance of a sanitary condition without regard to the aforementioned requirements.

(2) All sweepings solid or liquid wastes, refuse, and garbage shall be removed in such a manner as to avoid creating a menace to health and as often as necessary or appropriate to maintain the place of employment in a sanitary condition.

[Order 74-27, § 296-24-12019, filed 5/7/74.]

WAC 296-24-12021 Vermin control. Every building shall be so constructed, equipped, and maintained so as to restrict the entrance or harborage of rodents, insects, and other vermin. A continuing and effective extermination program shall be instituted where their presence is detected.

[Order 74-27, § 296-24-12021, filed 5/7/74.]

WAC 296-24-125 Temporary labor camps.

[Order 73-5, § 296-24-125, filed 5/9/73 and Order 73-4, § 296-24-125, filed 5/7/73.]

WAC 296-24-12501 What requirements apply to camp sites? (1) You must ensure that all sites used for temporary labor camps are adequately drained. The site must be free from periodic flooding, and located at least two hundred feet from a swamp, pool, sink hole, or other surface collection of water unless the water surface can be subject to mosquito control. Drainage from and through the camp must not endanger any domestic or public water supply. All sites must be free from depressions in which water may become a nuisance.

(2) All sites must be large enough to prevent overcrowding of necessary structures. The principal camp area for sleeping and for food preparation and eating must be at least five hundred feet from where livestock are kept.

(3) The grounds and open areas surrounding the shelters must be maintained in a clean and sanitary condition.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12501, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12501, filed 5/9/73 and Order 73-4, § 296-24-12501, filed 5/7/73.]

WAC 296-24-12503 How must camp shelters be constructed? (1) You must ensure that every shelter in the camp is constructed to provide protection against the elements.

(2) Each room used for sleeping purposes must have at least fifty square feet of floor space for each occupant. The room must have at least a seven-foot ceiling.

(3) You must provide beds, cots, or bunks, and suitable storage facilities such as wall lockers for clothing and personal articles in every sleeping room.

(a) Beds must be at least thirty-six inches apart, both laterally and end to end, and the frame must keep mattresses at least twelve inches off the floor.

(b) Double-deck bunks must be spaced at least forty-eight inches apart, both laterally and end to end.

(c) The minimum clear space between lower and upper bunks must be at least twenty-seven inches.

(d) Triple-deck bunks are prohibited.

(4) The floors of each shelter must be constructed of wood, asphalt, or concrete. Wooden floors must be smooth and tight. The floors must be kept in good repair.

(5) All wooden floors must be elevated at least one foot above ground level at all points to prevent dampness and to permit free air circulation.

(6) You may "bank" around outside walls with earth or other suitable material to guard against extreme low temperatures.

(7) All living quarters must have windows covering a total area equal to at least one-tenth of the floor area. You must ensure that at least one-half of each window can be opened for ventilation.

(8) All exterior openings must be screened with sixteen-mesh material. All screen doors must have self-closing devices.

(9) You must ensure that each dwelling unit has at least seventy square feet of floor space for the first occupant and at least fifty square feet of floor space for each additional occupant. In a family unit, the husband and wife must have a separate sleeping area whenever living with one or more children over six years old.

(10) If a camp is used during cold weather, you must provide adequate heating equipment.

Note: All heating, cooking, and water heating equipment must be installed according to state and local ordinances, codes, and regulations governing such installations.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12503, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12503, filed 5/9/73 and Order 73-4, § 296-24-12503, filed 5/7/73.]

WAC 296-24-12504 What electricity must be provided for temporary labor camps? (1) A labor camp operator must supply electricity to all dwelling units, kitchen facilities, shower/bathroom facilities, common areas, and laundry facilities.

(2) All electrical wiring and electrical equipment in labor camps must meet the electric standards of applicable building codes.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12504, filed 12/1/98, effective 3/1/99.]

WAC 296-24-12505 What requirements apply to the water supply? (1) In each camp, you must provide an adequate and convenient water supply for drinking, cooking, bathing, and laundry purposes. The water supply must be approved by the appropriate health authority.

"**Adequate water supply**" means a water supply that is capable of delivering thirty-five gallons per person per day to the campsite at a peak rate of two and one-half times the average hourly demand.

(2) You must ensure that the distribution lines are able to supply water at normal operating pressures to all fixtures for simultaneous operation. If water is not piped to the shelters, water outlets must be distributed throughout the camp so that no shelter is more than one hundred feet from a yard hydrant.

(3) Where water under pressure is available, you must provide one or more drinking fountains for each one hundred occupants or fraction thereof. The construction of drinking fountains must comply with ANSI Standard Specifications for Drinking Fountains, Z4.2-1942. Common drinking cups are prohibited.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12505, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12505, filed 5/9/73 and Order 73-4, § 296-24-12505, filed 5/7/73.]

WAC 296-24-12507 Must an employer provide toilet facilities for the camp? (1) You must provide toilet facilities adequate for the camp capacity.

(2) You must ensure that no one has to pass through a sleeping room to reach a toilet room. Toilet rooms must either have a window of at least six square feet opening directly to the outside, or be satisfactorily ventilated. All outside openings must be screened with sixteen-mesh material. No fixture, water closet, chemical toilet, or urinal must be located in a room used for other than toilet purposes.

(3) A toilet room must be within two hundred feet of the door of each sleeping room. An outhouse must be at least one hundred feet away from any sleeping room, dining room, lunch area, or kitchen.

(4) Where toilet rooms are shared, such as in multifamily shelters and in barracks-type facilities, you must provide separate toilet rooms for each sex. These rooms must be distinctly marked "men" and "women" by signs printed in English and in the native language of the persons occupying the camp, or marked with easily understood pictures or symbols. If the facilities for each sex are in the same building, they must be separated by solid walls or partitions extending from the floor to the roof or ceiling.

(5) Where toilet facilities are shared, you must provide water closets or outhouses for each sex, based on the maximum number of persons of that sex that the camp is designed to house at any one time. Water closets or outhouses must be provided in the ratio of one unit for each fifteen persons, and a minimum of two units for any shared facility.

(6) You must provide one urinal or two linear feet of urinal trough for each twenty-five men. The floor from the wall and out at least fifteen inches from the outer edge of the urinals must be constructed of materials impervious to moisture. Where water under pressure is available, urinals must have an adequate water flush. Urinal troughs in outhouses must drain

freely into the pit or vault and the drain must be constructed to exclude flies and rodents from the pit.

(7) Every water closet installed after the effective date of these standards must be located in a toilet room.

(8) Each outhouse, water closet, or chemical toilet compartment must have an adequate supply of toilet paper.

(9) Toilet rooms must be kept in a sanitary condition and be cleaned at least daily.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12507, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12507, filed 5/9/73 and Order 73-4, § 296-24-12507, filed 5/7/73.]

WAC 296-24-12509 Must sewer lines connect to public sewers? All sewer lines and floor drains from buildings must be connected to public sewers when sewers are available.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12509, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12509, filed 5/9/73 and Order 73-4, § 296-24-12509, filed 5/7/73.]

WAC 296-24-12511 What facilities must an employer provide for laundry, handwashing, and bathing? (1) Laundry, handwashing, and bathing facilities must be provided in the following ratio:

(a) One handwash basin per family shelter or per six persons in shared facilities.

(b) One shower head for every ten persons.

(c) One laundry tray or tub for every thirty persons.

(d) One "deepwell" type sink in each building used for laundry, handwashing, and bathing.

(2) Floors must be moisture-resistant and smooth but not slippery. All junctions of the curbing and the floor must be coved. The walls and partitions of shower rooms must be smooth and moisture-resistant to the height of splash. All shower baths, shower rooms, or laundry rooms must have floor drains to remove waste water and facilitate cleaning.

(3) An adequate supply of hot and cold running water must be provided for bathing and laundry purposes. Facilities for heating water must be provided.

(4) Every service building must be provided with equipment capable of maintaining a temperature of at least 70 degrees Fahrenheit.

(5) Facilities for drying clothes must be provided.

(6) All service buildings must be kept clean.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12511, filed 12/1/98, effective 3/1/99. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-12511, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-12511, filed 5/9/73 and Order 73-4, § 296-24-12511, filed 5/7/73.]

WAC 296-24-12513 What lighting must an employer provide for camp buildings? Each habitable room in a camp must have at least one ceiling-type light fixture and at least one separate floor-type or wall-type convenience outlet. Laundry and toilet rooms and rooms where people congregate must have at least one ceiling-type or wall-type fixture. Light levels in toilet and storage rooms must be at least twenty foot-candles thirty inches from the floor. The light level in other rooms, including kitchens and living quarters, must be at least thirty foot-candles thirty inches from the floor.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12513, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12513, filed 5/9/73 and Order 73-4, § 296-24-12513, filed 5/7/73.]

WAC 296-24-12515 What requirements apply to refuse disposal? (1) Cleanable or single service containers that can be securely closed, approved by the state board of health, must be provided for garbage storage. At least one such container must be provided for each family shelter and must be located within one hundred feet of each shelter on a wooden, metal, or concrete pad.

(2) Garbage containers must be kept clean.

(3) Garbage containers must be emptied when full, and at least twice a week.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12515, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12515, filed 5/9/73 and Order 73-4, § 296-24-12515, filed 5/7/73.]

WAC 296-24-12517 What cooking and food-handling facilities must be provided in temporary labor camps? A labor camp operator must provide enclosed and screened cooking and food-handling facilities for all occupants.

(1) If cooking facilities are located in dwelling units, the operator must provide:

(a) An operable cook stove or hot plate with at least one cooking surface for every two occupants;

(b) A sink with hot and cold running potable water under pressure;

(c) Food storage areas and nonabsorbent, easily cleanable food preparation counters situated off the floor;

(d) Mechanical refrigeration able to maintain a temperature of 45 degrees Fahrenheit or below, with enough space to store perishable food items for all occupants;

(e) Fire-resistant, nonabsorbent, nonasbestos, and easily cleanable wall coverings adjacent to cooking areas;

(f) Nonabsorbent, easily cleanable floors;

(g) At least one ceiling or wall light fixture; and

(h) Lighting of thirty foot-candles measured thirty inches from the floor; and

(i) Adequate ventilation for cooking facilities.

(2) In common food-handling facilities, the operator must provide:

(a) A room or building, adequate in size, separate from any sleeping quarters;

(b) No direct openings to living or sleeping areas from the common food-handling facility;

(c) An operable cook stove or hot plate with at least one cooking surface for every two occupants;

(d) Sinks with hot and cold running potable water under pressure;

(e) Food storage areas and nonabsorbent, easily cleanable food preparation counters situated off the floor;

(f) Mechanical refrigeration able to maintain a temperature of 45 degrees Fahrenheit or below, with enough space to store perishable food items for all occupants;

(g) Fire-resistant, nonabsorbent, nonasbestos, and easily cleanable wall coverings adjacent to cooking areas;

(h) Nonabsorbent, easily cleanable floors;

(i) At least one ceiling or wall light fixture; and

(j) Lighting of thirty foot-candles measured thirty inches from the floor;

(k) Adequate ventilation for cooking facilities.

(3) The operator must ensure that dining hall facilities:

(a) Comply with chapter 246-215 WAC, Food service;

(b) Are in a room or building, adequate in size, separate from any sleeping quarters;

(c) Have no direct openings to living or sleeping areas from the dining hall facility;

(d) Have fire-resistant, nonabsorbent, nonasbestos, and easily cleanable wall coverings adjacent to cooking areas;

(e) Have nonabsorbent, easily cleanable floors;

(f) Have at least one ceiling or wall light fixture; and

(g) Have available lighting of thirty foot-candles measured thirty inches from the floor.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12517, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12517, filed 5/9/73 and Order 73-4, § 296-24-12517, filed 5/7/73.]

WAC 296-24-12519 Must an employer provide insect and rodent control? You must take effective measures to prevent and control insect and rodent infestation.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12519, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12519, filed 5/9/73 and Order 73-4, § 296-24-12519, filed 5/7/73.]

WAC 296-24-12521 What first-aid facilities must be available in the camp? (1) In every camp, you must provide and maintain adequate first-aid facilities, approved by a health authority, for emergency treatment.

(2) A first-aid trained person must be in charge of first-aid facilities.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12521, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12521, filed 5/9/73 and Order 73-4, § 296-24-12521, filed 5/7/73.]

WAC 296-24-12523 When must an employer report communicable diseases in a camp? (1) You must report immediately to the local health officer the name and address of any individual in the camp known to have or suspected of having a communicable disease.

(2) Whenever suspected food poisoning or an unusual prevalence of fever, diarrhea, sore throat, vomiting, or jaundice occurs, the camp superintendent must report immediately the outbreak to the local health officer or state board of health.

[Statutory Authority: RCW 49.17.040. 98-24-096, § 296-24-12523, filed 12/1/98, effective 3/1/99; Order 73-5, § 296-24-12523, filed 5/9/73 and Order 73-4, § 296-24-12523, filed 5/7/73.]

PART B-2
SAFETY COLOR CODE FOR MARKING PHYSICAL HAZARDS, ETC., WINDOW WASHING

Color code—Marking physical hazards

WAC 296-24-135 Safety color code for marking physical hazards.

[Order 73-5, § 296-24-135, filed 5/9/73 and Order 73-4, § 296-24-135, filed 5/7/73.]

WAC 296-24-13501 Color identification. (1) Red. Red shall be the basic color for the identification of:

(a) Fire protection equipment and apparatus, except motorized apparatus, as used on roads.

(b) Danger. Safety cans or other portable containers of flammable liquids having a flashpoint at or below 80°F. table containers of flammable liquids (open cup tester), excluding shipping containers, shall be painted red with some additional clearly visible identification either in the form of a yellow band around the can or the name of the contents conspicuously stenciled or painted on the can in yellow. Red lights shall be provided at barricades and at temporary obstructions, as specified in ANSI Safety Code for Building Construction, A10.2-1944. Danger signs shall be painted red.

(c) Stop. Emergency stop bars on hazardous machines such as rubber mills, wire blocks, flat work ironers, etc., shall be red. Stop buttons or electrical switches used for emergency stopping of machinery shall be red.

(2) Yellow. Yellow shall be the basic color for designating caution and for marking physical hazards such as: Striking against, stumbling, falling, tripping, and "caught in between."

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-13501, filed 10/20/95, effective 1/16/96. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-13-045 (Order 82-22), § 296-24-13501, filed 6/11/82; Order 73-5, § 296-24-13501, filed 5/9/73 and Order 73-4, § 296-24-13501, filed 5/7/73.]

WAC 296-24-140 Specifications for accident prevention signs and tags.

[Order 73-5, § 296-24-140, filed 5/9/73 and Order 73-4, § 296-24-140, filed 5/7/73.]

WAC 296-24-14001 Scope. (1) These specifications apply to the design, application, and use of signs or symbols (as included in WAC 296-24-14005 through 296-24-14009) intended to indicate and, insofar as possible, to define specific hazards of a nature such that failure to designate them may lead to accidental injury to workers. These specifications are intended to cover all safety signs except those designed for streets, highways, railroads, and marine regulations. These specifications do not apply to plant bulletin boards or to safety posters.

(2) All new signs and replacements of old signs after August 27, 1971 shall be in accordance with these specifications.

[Order 76-6, § 296-24-14001, filed 3/1/76; Order 73-5, § 296-24-14001, filed 5/9/73 and Order 73-4, § 296-24-14001, filed 5/7/73.]

WAC 296-24-14003 Definitions. As used in this section, the word "sign" refers to a surface on which letters or other markings appear, prepared for the warning of, or safety instructions of, industrial workers who may be exposed to hazards. Excluded from this definition, however, are news releases, displays commonly known as safety posters, and bulletins used for employee education.

[Order 73-5, § 296-24-14003, filed 5/9/73 and Order 73-4, § 296-24-14003, filed 5/7/73.]

WAC 296-24-14005 Classification of signs according to use. (1) Danger signs.

(a) Danger signs should be used only where an immediate hazard exists. There shall be no variation in the type of design or signs posted to warn of specific dangers and radiation hazards.

(b) All employees shall be instructed that danger signs indicate immediate danger and that special precautions are necessary.

(2) Caution signs.

(a) Caution signs shall be used only to warn against potential hazards or to caution against unsafe practices.

(b) All employees shall be instructed that caution signs indicate a possible hazard against which proper precaution should be taken.

(3) Safety instruction signs. Safety instruction signs shall be used where there is a need for general instructions and suggestions relative to safety measures.

[Order 73-5, § 296-24-14005, filed 5/9/73 and Order 73-4, § 296-24-14005, filed 5/7/73.]

WAC 296-24-14007 Sign design and colors. (1) All signs shall be furnished with rounded or blunt corners and shall be free from sharp edges, burrs, splinters, or other sharp projections. The ends or heads of bolts or other fastening devices shall be located in such a way that they do not constitute a hazard.

(2) Danger signs.

(a) The colors red, black, and white shall be those of opaque glossy samples as specified in Table 1 of Fundamental Specification of Safety Colors for CIE Standard Source "C, " American National Standard Z53.1-1971.

(b) Standard proportions shall be as indicated in Table J-1, and format shall be as in Fig. J-1.

(3) Radiation warning signs.

(a) Standard color of the background shall be yellow; the panel, reddish purple with yellow letters; the symbol, reddish purple; any letters used against the yellow background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of American National Standard, Z53.1-1971.

(b) The standard symbol shall be as in Figure J-3. Method of dimensioning, design, and orientation of the standard symbol (one blade pointed downward and centered on the vertical axis) shall be executed as illustrated. The symbol shall be prominently displayed, and of a size consistent with the size of the equipment or material or area to which it is attached.

(c) Format shall be as in Figure J-2. Sign proportions shall be the same as those for danger signs in Table J-1.

(4) Caution signs.

(a) Standard color of the background shall be yellow; and the panel, black with yellow letters. Any letters used against the yellow background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of American National Standard Z53.1-1971.

(b) Standard proportions shall be as indicated in Table J-2, and format shall be as in Figure J-4.

(5) Exit signs. Exit signs shall be in accordance with WAC 296-24-56531.

(6) Safety instruction signs.

(a) Standard color of the background shall be white; and the panel, green with white letters. Any letters used against the white background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of American National Standard, Z53.1-1971.

(b) Standard proportions shall be as indicated in Table J-3, and format shall be as in Figure J-5.

(7) Directional signs.

(a) Standard color of the background shall be white; and the panel, black with white directional symbol. Any letters used against the white background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of American National Standard Z53.1-1971.

(b) Standard proportions shall be as indicated in Table J-4, and format shall be as in Figure J-6.

(8) In-plant traffic signs. Regulatory and control signs required for the safe movement of vehicles and pedestrians on thoroughfares on plant property shall conform to the standards established in American National Standard Manual on Uniform Traffic Control Devices for Streets and Highways, D6.1-1971.

(9) Informational signs. Blue shall be the standard color for informational signs. It may be used as the background color for the complete sign or as a panel at the top of such types of "notice" signs, which have a white background. The colors shall be those of opaque glossy samples as specified in Table 1 of American National Standard Z53.1-1971.

(10) Slow-moving vehicle emblem. This emblem (see Fig. J-7) consists of a fluorescent yellow-orange triangle with a dark red reflective border. The yellow-orange fluorescent triangle is a highly visible color for daylight exposure. The reflective border defines the shape of the fluorescent color in daylight and creates a hollow red triangle in the path of motor vehicle headlights at night. The emblem is intended as a unique identification for, and it shall be used only, on vehicles which by design move slowly (25 m.p.h. or less) on the public roads. The emblem is not a clearance marker for wide machinery nor is it intended to replace required lighting or marking of slow-moving vehicles. Neither the color film pattern and its dimensions nor the backing shall be altered to permit use of advertising or other markings. The material, location, mounting, etc., of the emblem shall be in accordance with the American Society of Agricultural Engineers Emblem for Identifying Slow-Moving Vehicles, ASAE R276, 1967, or ASAE S276.2 (ANSI B114.1-1971).

(11) Symbols. Symbols used on signs shall follow recognized practices, such as in Figure J-8. For radioactive materials, see symbol in Figure J-3.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-13-045 (Order 82-22), § 296-24-14007, filed 6/11/82; Order 73-5, § 296-24-14007, filed 5/9/73 and Order 73-4, § 296-24-14007, filed 5/7/73.]

WAC 296-24-14009 Sign wordings. (1) Examples of wordings. The lists in (3) through (7) of this section are intended to serve as a guide for choosing the correct sign design for the message to be displayed.

(2) Nature of wording. The wording of any sign should be easily read and concise. The sign should contain sufficient information to be easily understood. The wording should

make a positive, rather than negative suggestion and should be accurate in fact.

(3) Danger signs.

Danger—Keep off, electric current.
Danger—No smoking, matches, or open lights.
Danger—Workers above.
Danger—Not room enough here to clear men on cars.
Danger—Keep away.
Danger—Workers in boiler.
Danger—Insufficient clearance.
Danger—2, 300 volts.
Danger—Keep out.
Danger—Crane overhead.
Danger—Keep off.

(4) Biological hazard signs. The biological hazard warning shall be used to signify the actual or potential presence of a biohazard and to identify equipment, containers, rooms, materials, experimental animals, or combinations thereof, which contain, or are contaminated with, viable hazardous agents. For the purpose of this subdivision the term "biological hazard, " or "biohazard, " shall include only those infectious agents presenting a risk or potential risk to the well-being of persons. The biohazard symbol shall be designed and proportioned as illustrated in Figure J-9. The symbol design shall be a fluorescent orange or orange-red color. Background color is optional as long as there is sufficient contrast for the symbol to be clearly defined. Appropriate wording may be used in association with the symbol to indicate the nature or identity of the hazard, name of individual responsible for its control, precautionary information, etc., but never should this information be superimposed on the symbol.

(5) Caution signs.

Caution—Do not operate, working on repairs.
Caution—Hands off switch, working on line.
Caution—Working on machines, do not start.
Caution—Goggles must be worn when operating this machine.
Caution—This door must be kept closed.
Caution—Electric trucks, go slow.
Caution—This space must be kept clear at all times.
Caution—Stop machinery to clean, oil, or repair.
Caution—Keep aisles clear.
Caution—Operators of this machine shall wear snug fitting clothing—No gloves.
Caution—Close clearance.
Caution—Watch your step.
Caution—Electric fence.

(6) Safety instruction signs.

Report all injuries to the first-aid room at once.
Walk—Don't run.
Report all injuries no matter how slight.
Think, if safe go ahead.
Make your work place safe before starting the job.
Report all unsafe conditions to your supervisor.
elp keep this plant safe and clean.

(7) Directional signs.

This way out (below arrow panel).
This way (inside arrow) out (below arrow panel).
Fire exit (below arrow panel).
Fire (inside arrow) extinguisher (below arrow panel).
To the (inside arrow) fire escape (below arrow panel).
To the (inside arrow) first aid (below arrow panel).
Manway (below arrow panel).
This way to (inside arrow) first-aid room (below arrow panel).

(8) Informational signs.

No trespassing under penalty of the law.
This elevator is for freight only, not for passengers.
No admittance except to employees on duty.
No admittance.
No admittance, apply at office.
No trespassing.
Men.
Women.
For employees only.
Office.

Note: When sign wordings such as those listed in this section are contemplated, care should be taken to be sure that they are suitable for the particular location at which the sign is to be placed and that wording meets the requirements of the intended purpose. When there is a reasonable doubt, a sign of a standard design should be used.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14009, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14009, filed 5/9/73 and Order 73-4, § 296-24-14009, filed 5/7/73.]

WAC 296-24-14011 Accident prevention tags. (1) Scope and purpose.

(a) This section applies to all accident prevention tags used to identify hazardous conditions and provide a message to employees with respect to hazardous conditions as set forth in subsection (3) of this section, or to meet the specific requirements of other WAC requirements.

(b) Tags are a temporary means of warning all concerned of a hazardous condition, defective equipment, radiation hazards, etc. The tags are not to be considered as a complete warning method, but should be used until a positive means can be employed to eliminate the hazard; for example, a "do not start" tag on power equipment shall be used for a few moments or a very short time until the switch in the system can be locked out; a "defective equipment" tag shall be placed on a damaged ladder and immediate arrangements made for the ladder to be taken out of service and sent to the repair shop.

(c) This section does not apply to construction.

(2) Definitions.

(a) "Biological hazard" or "**Biohazard**" means those infectious agents presenting a risk of death, injury or illness to employees.

(b) "Major message" means that portion of a tag's inscription that is more specific than the signal word and that indicates the specific hazardous condition or the instruction to be communicated to the employee. Examples include: "High Voltage, " "Close Clearance, " "Do Not Start, " or "Do Not Use" or a corresponding pictograph used with a written text or alone.

(c) "Pictograph" means a pictorial representation used to identify a hazardous condition or to convey a safety instruction.

(d) "Signal word" means that portion of a tag's inscription that contains the word or words that are intended to capture the employee's immediate attention.

(e) "Tag" means a device usually made of card, paper, pasteboard, plastic or other material used to identify a hazardous condition.

(3) Use.

(a) Tags shall be used as a means to prevent accidental injury or illness to employees who are exposed to hazardous or potentially hazardous conditions, equipment or operations which are out of the ordinary, unexpected or not readily apparent.

(b) Tags shall be used until such time as the identified hazard is eliminated or the hazardous operation is completed. Tags need not be used where signs, guarding or other positive means of protection are being used.

(c) Do not start tags shall be placed in a conspicuous location or shall be placed in such a manner that they effectively block the starting mechanism which would cause hazardous conditions should the equipment be energized. See Fig. J-11.

(4) General tag criteria.

(a) All required tags shall meet the following criteria:

(i) Tags shall contain a signal word and a major message.

(ii) The signal word shall be either "Danger, " "Caution, " or "Biological Hazard, " "biohazard, " or the biological hazard symbol.

(iii) The major message shall indicate the specific hazardous condition or the instruction to be communicated to the employee.

(b) The signal word shall be readable at a minimum distance of five feet (1.52 m) or such greater distance as warranted by the hazard.

(c) The tag's major message shall be presented in either pictographs, written text or both.

(d) The signal word and the major message shall be understandable to all employees who may be exposed to the identified hazard.

(e) All employees shall be informed as to the meaning of the various tags used throughout the workplace and what special precautions are necessary.

(f) Tags shall be affixed as close as safely possible to their respective hazards by a positive means such as string, wire, or adhesive that prevents their loss or unintentional removal.

(g) The tag and attachment method or device used shall be constructed of such material that they will not be likely to deteriorate in the environment in which the tag is used during the time period of intended use.

(5) Danger tags.

(a) Danger tags shall be used in major hazard situations where an immediate hazard presents a threat of death or serious injury to employees. Danger tags shall be used only in these situations. See Fig. J-11.

(b) All employees should be instructed that danger tags indicate immediate danger and that special precautions are necessary.

(6) Caution tags.

(a) Caution tags shall be used in minor hazard situations where a nonimmediate or potential hazard or unsafe practice presents a lesser threat of employee injury. Caution tags shall be used only in these situations. See Fig. J-12.

(b) All employees should be instructed that caution tags indicate a possible hazard against which proper precautions should be taken.

(7) Warning tags. Warning tags may be used to represent a hazard level between "Caution" and "Danger, " instead of the required "Caution" tag, provided that they have a signal word of "Warning, " an appropriate major message, and otherwise meet the general tag criteria of subsection (4) of this section.

(8) Out of order tags. Out of order tags should be used only for the specific purpose of indicating that a piece of equipment, machinery, etc., is out of order and to attempt to use it might present a hazard. (See Fig. J-13.)

(9) Radiation tags.

(a) The standard background for radiation tags shall be yellow; the panel shall be reddish purple. Any letters used against the yellow background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1, Fundamental Specification of Safety Colors for CIE Standard Source "C" American National Standards Institute, Safety Color Code for Marking Physical Hazards and the Identification of Certain Equipment, Z53.1-1971.

(b) The method of dimension, design, and orientation of the standard symbol (one blade pointed downward and centered on the vertical axis) shall be executed as illustrated in Figure J-14. The symbol shall be prominently displayed and of a size consistent with the size of the equipment or area in which it is to be used.

(10) Biological hazard tags.

(a) Biological hazard tags shall be used to identify the actual or potential presence of a biological hazard and to identify equipment, containers, rooms, experimental animals, or combinations thereof, that contain or are contaminated with hazardous biological agents.

(b) The symbol design for biological hazard tags shall conform to the design shown in Fig. J-15.

(11) Other tags. Other tags may be used in addition to those required by this section or in other situations where this section does not require tags, provided that they do not detract from the impact or visibility of the signal word and major message of any required tag.

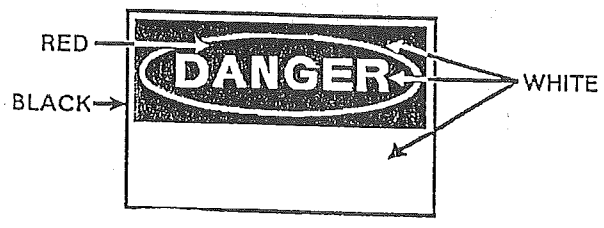


Fig. J-1
Danger Sign

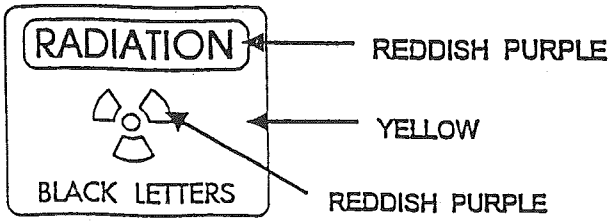


Fig. J-2
Radiation Warning Sign

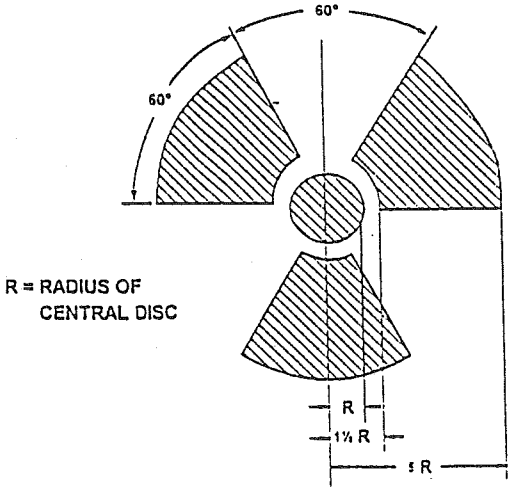
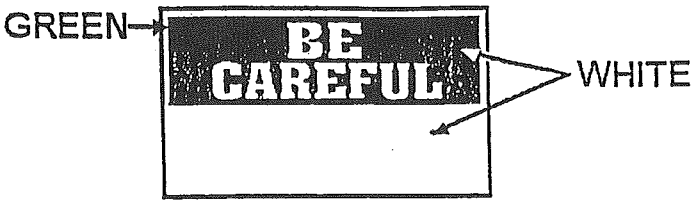


Fig. J-3
Standard Radiation Symbol



Fig. J-4
Caution Sign



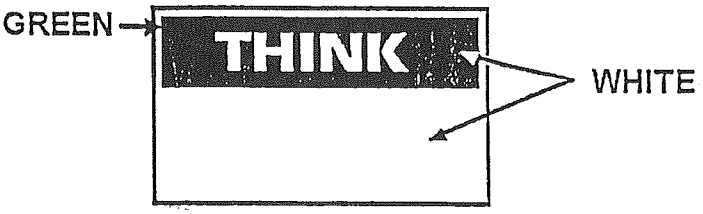


Fig. J-5
Safety Instruction Signs

(Note: The words "think" and "be careful, " given here, are only illustrations. Other wordings may be used.)

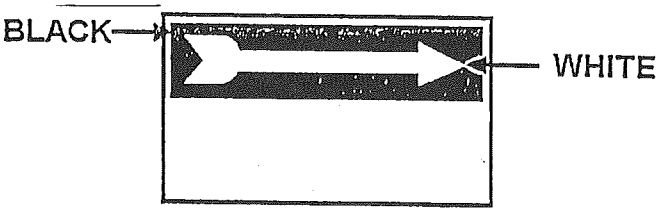


Fig. J-6
Directional Signs

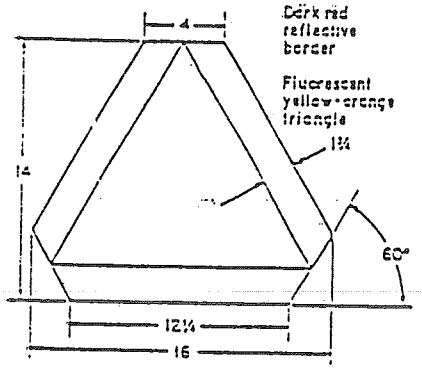
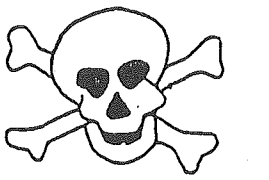


Fig. J-7
Slow-Moving Vehicle Emblem

Note: All dimensions are in inches.

POISON:



ELECTRICITY:

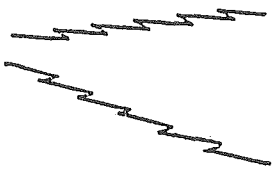
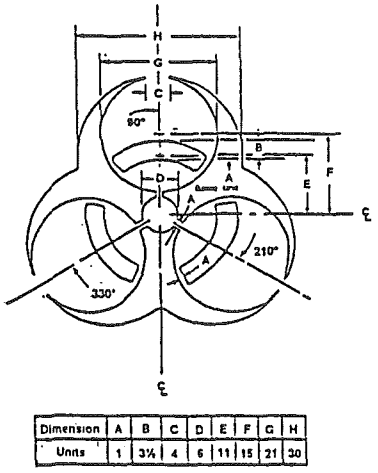
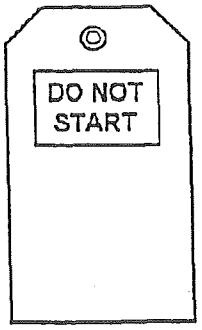


Fig. J-8
Symbols Used on Signs



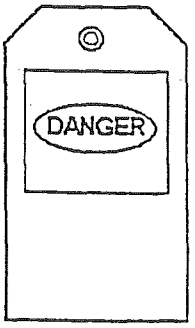
Dimension	A	B	C	D	E	F	G	H
Units	1	3½	4	6	11	15	21	30

Fig. J-9
Symbol for Biological Hazard



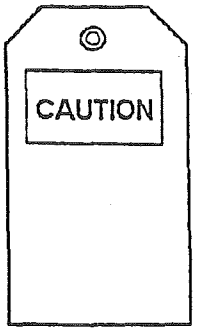
White tag
white letters on
red square

Fig. J-10
Do Not Start Tag



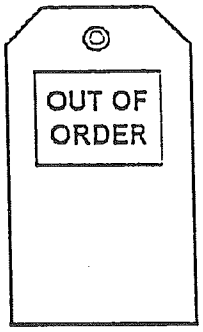
White tag
white letters on
red oval with a
black square

Fig. J-11
Danger Tag



Yellow tag
yellow letters on a
black background

Fig. J-12
Caution Tag



White tag
white letters on
black background

Fig. J-13
Out of Order Tag

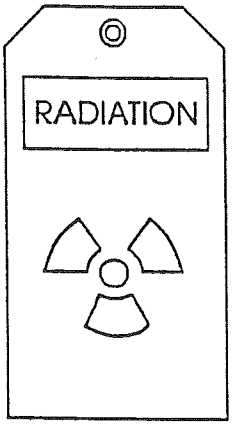


Fig. J-14
Radiation Tag

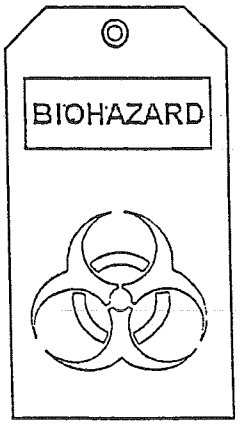


Fig. J-15
Biological Hazard Tag

TABLE J-1
STANDARD PROPORTIONS FOR DANGER SIGNS

Sign size, inches Height Width	Black rectangular panel, inches Height Width	Red oval, inches Height Width	Word danger, height inches	Maximum space available for sign wording, inches
		HORIZONTAL PATTERN		
7x10	3 1/4 x 9 3/8	2 7/8 x 8 1/2	1 7/16	2 3/4 x 9 3/8
10x14	4 5/8 x 13 3/8	4 1/8 x 11 7/8	2 1/16	4 1/4 x 13 3/8
14x20	6 1/2 x 19 3/8	5 3/4 x 17	2 7/8	6 1/4 x 19 3/8
20x28	9 1/4 x 27 3/8	8 1/4 x 23 7/8	4 1/8	9 1/2 x 27 3/8
		UPRIGHT PATTERN		
10x 7	2 3/8 x 6 3/8	2 1/8 x 5 7/8	1 1/16	6 3/8 x 6 3/8
14x10	3 1/4 x 9 3/8	2 7/8 x 8 1/2	1 7/16	9 1/2 x 9 3/8
20x14	4 5/8 x 13 3/8	4 1/8 x 11 7/8	2 1/16	14 x 13 3/8
28x20	6 1/2 x 19 3/8	5 3/4 x 17	2 7/8	20 1/4 x 19 3/8

TABLE J-2
STANDARD PROPORTIONS FOR CAUTION SIGNS

Sign size, inches height width	Black rectangular panel, inches height width	Word "Caution" height of letter, inches	Maximum space available for sign wording below panel inches height width
	HORIZONTAL PATTERN		
7 x 10	2 1/4 x 9 3/8	1 5/8	3 1/4 x 9 3/8
10 x 14	3 1/4 x 13 3/8	2 1/4	5 1/2 x 13 3/8
14 x 20	3 3/4 x 19 3/8	2 3/4	9 x 19 3/8
20 x 28	4 1/4 x 27 3/8	3 1/4	14 1/2 x 27 3/8
	UPRIGHT PATTERN		
10 x 7	1 5/8 x 6 3/8	1 1/8	7 x 6 3/8
14 x 10	2 1/4 x 9 3/8	1 5/8	10 1/2 x 9 3/8
20 x 14	3 1/4 x 13 3/8	2 1/4	15 1/2 x 13 3/8
28 x 20	3 3/4 x 19 3/8	2 3/4	24 x 19 3/8

TABLE J-3
STANDARD PROPORTIONS FOR SAFETY INSTRUCTIONS SIGNS

(TABLE J-3: PART 1—"Think" Safety Sign)

Sign size, inches, height, width	Green rectangular panel, inches, height, width	Word "Think" height letters, inches	Maximum Space available for sign wording below panel, inches height, width
7x10	2 3/4 x 9 3/8	1 5/8	3 1/2 x 9 3/8
10x14	3 1/4 x 13 3/8	2 1/4	5 1/2 x 13 3/8
14x20	3 3/4 x 19 3/8	2 3/4	9 x 19 3/8
20x28	4 1/4 x 27 3/8	3 1/4	14 1/2 x 27 3/8

(TABLE J-3 PART 2—"Be Careful" Safety Sign)

Sign size, inches height, width	Green panel, inches, height, width	Word "Be" height of letters, inches	Word "Careful" height of letters, inches	Maximum Space available for sign wording below panel, inches height, width
7x10	3 3/8 x 9 3/8	1 1/4	1 3/16	2 1/2 x 9 3/8
10x14	4 1/4 x 13 3/8	1 3/4	2 3/16	4 x 13 3/8
14x20	6 1/4 x 19 3/8	2 1/2	3 1/8	6 x 19 3/8
20x28	9 1/2 x 27 3/8	3 1/2	4 3/8	9 1/4 x 27 3/8

TABLE J-4
STANDARD PROPORTIONS FOR DIRECTIONAL SIGNS

Sign size inches height	Black rectangular panel, inches height, width	White arrow, inches: Overall length	Arrow head height width	Arrow shaft height	Arrow tail height width	Maximum space for sign wording below panel height
6 1/2x14	3 1/4 x 13 3/8	12 5/8	2 3/4 x 3	1 1/8	2 3/8 x 3 1/4	2 1/4 x 13 3/8
9x20	4 1/2 x 19 3/8	18 5/8	3 3/4 x 4 1/8	1 5/8	3 1/4 x 4 1/2	3 3/8 x 19 3/8
12x28	6 x 27 3/8	26 5/8	5 1/8 x 5 5/8	2 1/8 6	4 3/8 x 27 3/8	4 3/4 x
15x36	7 1/2 x 35 3/8	34 5/8	6 3/8 x 6 7/8	2 5/8	5 1/2 x 7 1/2	6 1/4 x 35 3/8

Appendix A—Recommended color coding.

While the standard does not specifically mandate colors to be used on accident prevention tags, the following color scheme is recommended by OSHA for meeting the requirements of this section:

"DANGER"—Red, or predominantly red, with lettering or symbols in a contrasting color.

"CAUTION"—Yellow, or predominantly yellow, with lettering or symbols in a contrasting color.

"WARNING"—Orange, or predominantly orange, with lettering or symbols in a contrasting color.

"BIOLOGICAL HAZARD"—Fluorescent orange or orange-red, or predominantly so, with lettering or symbols in a contrasting color.

Appendix B—References for further information.

The following references provide information which can be helpful in understanding the requirements contained in various sections of the standard:

1. Bresnahan, Thomas F., and Bryk, Joseph. "The Hazard Association Values of Accident Prevention Signs", Journal of American Society of Safety Engineers: January 1975.

2. Dreyfuss, H., Symbol Sourcebook, McGraw Hill: New York, NY, 1972.

3. Glass, R. A. and others, Some Criteria for Colors and Signs in Workplaces, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, 1983.

4. Graphic Symbols for Public Areas and Occupational Environments, Treasury Board of Canada, Ottawa, Canada, July 1980.

5. Howett, G. L., Size of Letters Required for Visibility as a Function of Viewing Distance and Observer Acuity, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, July 1983.

6. Lerner, N. D., and Collins, B. L., The Assessment of Safety Symbol Understandability by Different Testing Methods, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, 1980.

7. Lerner, N. D. and Collins, B. L., Workplace Safety Symbols, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, 1980.

8. Modley, R. and Meyers, W. R., Handbook of Pictorial Symbols, Dover Publication, New York, NY, 1976.

9. Product Safety Signs and Labels, FMC Corporation, Santa Clara, CA, 1978.

10. Safety Color Coding for Marking Physical Hazards, Z53.1, American National Standards Institute, 11 West 42nd Street, New York, NY 10036, 1979.

11. Signs and Symbols for the Occupational Environment, Can. 3-Z-321-77, Canadian Standards Association, Rexdale, Ontario M9W 1R3, September 1977.

12. Symbols for Industrial Safety, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, April 1982.

13. Symbol Signs, U.S. Department of Transportation, Washington D.C., November 1974.

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-14011, filed 10/20/95, effective 1/16/96. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14011, filed 7/20/94, effective 9/20/94; 94-06-068 (Order 93-17), § 296-24-14011, filed 3/2/94, effective 3/1/95. Statutory Authority: RCW 49.17.050(2) and 49.14.040 [49.17.040]. 87-07-022 (Order 87-01), § 296-24-14011, filed 3/12/87; Order 76-6, § 296-24-14011, filed 3/1/76; Order 73-5, § 296-24-14011, filed 5/9/73 and Order 73-4, § 296-24-14011, filed 5/7/73.]

WAC 296-24-145 Window washing.

[Order 73-5, § 296-24-145, filed 5/9/73 and Order 73-4, § 296-24-145, filed 5/7/73.]

WAC 296-24-14501 Definitions. (1) "Building" means a building more than one story in height or having window sills more than twelve feet above grade, which is a place of employment.

(2) The term "outside" means wholly without the building and/or establishment.

(3) The term "window cleaning" means all methods of cleaning windows.

(4) The term "safety belt" means the equipment which is attached to the body of the window cleaner while cleaning windows.

(5) "Waist band" means that part of the safety belt which is attached to the body of the window cleaner.

(6) "Terminal strap" means the strap or rope which is attached to the waist band and to which the belt terminals are attached.

(7) A "safe manner" means the method employed in cleaning windows in which the employee is protected:

(a) By standing or sitting on the sill while protected by a safety device.

(b) By working from a ladder.

(c) By working from a scaffold, or

(d) By working from a boatswain's chair.

(8) "Belt terminal" means that part of the safety belt which is fastened to the terminal strap to be attached to the anchor during the operation of window cleaning.

(9) The term "anchor" means the fitting, fastened to the window frame or wall, to which the belt terminal is attached.

(10) The term "single-head anchor" means an anchor having one head.

(11) The term "double-head anchor" means an anchor having two heads.

(12) The term "machine bolt" means the bolts used to install anchors in steel window frames.

(13) "Grade" means the ground, the floor, the sidewalk, the roof, or any approximately level solid surface of sufficient area and having sufficient structural strength to be considered as a safe place to work.

[Order 73-5, § 296-24-14501, filed 5/9/73 and Order 73-4, § 296-24-14501, filed 5/7/73.]

WAC 296-24-14503 Application. These orders shall apply to all window cleaning done in places of employment.

[Order 73-5, § 296-24-14503, filed 5/9/73 and Order 73-4, § 296-24-14503, filed 5/7/73.]

WAC 296-24-14505 Protection of persons engaged at window cleaning. (1) The employer shall not require nor permit any window in such building to be cleaned from the outside unless means are provided to enable such work to be done in a safe manner as provided in these standards.

(2) All employees required to clean windows shall use safety devices as required herein.

[Order 73-5, § 296-24-14505, filed 5/9/73 and Order 73-4, § 296-24-14505, filed 5/7/73.]

WAC 296-24-14507 General. (1) In every building hereafter erected, having windows so constructed that it is usual and/or practicable for a person to stand on the sill in order to clean said window, there shall be installed window cleaner's safety anchors approved by the American National Standards Institute.

(2) Employees sitting on a window sill with their legs inside the room, shall wear a safety belt equipped with a safety line. One end of the line shall be tied to a radiator, or any other substantial anchorage inside the room, unless the window opening is equipped with anchors in which case the safety belt shall be attached to the anchors.

(3) No safety device shall be used in window cleaning operations until it has the approval of the American National Standards Institute.

(4) The use of lag screws is prohibited in new or replacement installations hereafter made.

(5) Window cleaners shall not pass from one window sill to another window sill on the outside of a building unless one terminal is connected at all times.

(6) No employee who has not been properly trained to handle such equipment shall be assigned to work on scaffolds or boatswains' chairs.

(7) All window cleaning safety devices hereafter approved shall bear identification marks to identify the approval of the American National Standards Institute.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14507, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14507, filed 5/9/73 and Order 73-4, § 296-24-14507, filed 5/7/73.]

WAC 296-24-14509 Belt terminals, anchors and bolts. (1) All anchors and belt terminals shall be capable of withstanding the following tests:

(a) To withstand an impact test of an iron weight of thirty-two pounds falling free a distance of four feet and striking the head of the anchor without fracture.

(b) A drop test of three hundred fifty pounds dead weight (not sand) falling a distance of four feet without fracture. The connection between the weight and anchor being a standard safety belt or ropes or cables not over six feet long.

(c) To withstand a tension pull of six thousand pounds without fracture. This tension to be applied through a belt terminal and in the direction which the anchor must withstand in service when a person falls.

(2) All metals used in the manufacture of anchors and belt terminals shall have a minimum ultimate tensile strength of fifty-five thousand pounds per square inch, with an elongation of at least twenty-five percent in two inches and shall have a corrosion resistance of sixty percent as compared to copper. The belt terminal may be excepted from the corrosive resistance and elongation requirements of this order if of material and design of obvious superiority.

(3) All anchors installed hereafter shall be double-headed. These heads to be so designed or spaced that it will be impossible to attach the belt terminal to a single head. The department may approve a single-headed anchor upon sufficient tests and proofs.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14509, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14509, filed 5/9/73 and Order 73-4, § 296-24-14509 filed 5/7/73.]

WAC 296-24-14511 Belts. (1) An approved safety belt of tanned leather, canvas or any other approved material shall be used when the operator is required to stand on the sill while cleaning the window. The safety belt shall be capable of withstanding a drop test of three hundred fifty pounds dead weight (not sand) falling a distance of four feet without failure, one terminal only being attached. The connection between the weight and the belt shall be the waist band of the belt.

(2) The safety belt shall be kept in repair.

(3) Window cleaners using a safety belt shall attach one belt terminal to anchor before stepping out onto the sill. During the operation of window cleaning, both belt terminals shall be attached to the anchors.

(4) The fittings on the waist band through which the terminal strap or rope passes shall be so constructed that it will be impossible for the safety terminals to pass through them.

(5) Metal thimbles shall be provided where ropes or straps are secured to eyes or rings.

(6) Suitable length terminal straps shall be provided for windows more than six feet wide between mullions.

[Order 73-5, § 296-24-14511, filed 5/9/73 and Order 73-4, § 296-24-14511, filed 5/7/73.]

WAC 296-24-14513 Anchor installations. (1) Locations: Anchors shall be attached to the side frames of the window or to the building at a point not less than forty-two inches nor more than fifty-one inches (approximately) above

the window sill. Care shall be taken when screwing up anchor fastenings, to prevent producing excess stresses.

(2) Wood—Existing and new buildings: When anchors are attached to wood construction, through bolts of not less than one-half inch diameter, extending at least through the window frame with washers and nuts inside, shall be used as anchor fasteners. Means shall be provided to keep the nut from backing off.

Wall flanges shall be not less than one and one-quarter inches in diameter, or equivalent area.

(3) Concrete—New buildings: Anchors attached to concrete poured in place in buildings hereafter erected, shall be installed while the concrete is being placed. Such anchors shall extend not less than five inches into the concrete and shall have a cross-sectional area of not less than one-quarter of a square inch and shall be provided with a fluke at the end of the anchor not less than one inch in length.

(4) Masonry—New buildings: Anchors attached to masonry, other than concrete poured in place, in buildings hereafter erected, shall be installed while the wall is under construction and shall be shaped to build into the joints between masonry units. Such anchors shall be not less than eight and one-half inches long and shall have a cross-sectional area of not less than one-quarter of a square inch at all unexposed points and shall have a fluke or flukes having a holding surface of not less than one inch in length that shall be firmly imbedded in the masonry.

(5) Masonry and concrete—Existing buildings: Anchors installed on buildings or masonry and concrete construction heretofore erected, shall be attached to the window frames as required in these standards, or by other methods approved by the department.

(6) Hollow metal—Existing and new buildings: Anchors shall be attached to hollow metal construction by one of the following methods:

(a) At least two nickel steel bolts not less than five-sixteenths of an inch in diameter passing through the frame and a steel reinforcing plate five-sixteenths of an inch thick and not less than six inches long, placed on the inside of the frame and secured by means of nuts and lock washers. In cases where it is impracticable to provide nuts and lock washers, the reinforcing plate may be tapped to receive five-sixteenths inch diameter bolts, and the bolts shall extend through the plate.

(b) Where the screw bolt is an integral part of the anchor, it shall be at least one-half inch in diameter and shall be secured by means of a nut and lock washer, or any other method approved by the department.

(c) All anchors and anchor fastenings shall be provided with means to prevent them from turning, backing off or becoming loose.

(7) Solid metal—Existing and new buildings: Anchors shall be attached to solid metal construction by one of the following methods:

(a) At least two nickel steel bolts not less than five-sixteenths of an inch in diameter passing through the frame, and secured by means of nuts and lock washers. In cases where it is impracticable to provide nuts and lock washers, the metal frame shall be reinforced with a five-sixteenths inch thick plate and tapped to receive at least two five-sixteenths inch diameter nickel steel bolts, and the bolts shall extend through the reinforcing plate.

(b) Where the screw bolt is an integral part of the anchor, it shall be at least one-half inch in diameter and shall be secured by means of a nut and lock washer, or any other method approved by the department.

(c) All anchors and anchor fastenings shall be provided with means to prevent them from turning, backing off or becoming loose.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14513, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14513, filed 5/9/73 and Order 73-4, § 296-24-14513, filed 5/7/73.]

WAC 296-24-14515 Reversible and pivot windows. (1) When it is necessary to clean reversible and pivot windows either of which is prevented from properly operating by obstructions or by the design of said windows, they shall be provided with safety devices of approved design.

(2) Horizontally pivoted sash. Provision shall be made so that the outside of horizontally pivoted windows may be cleaned without necessitating the window washer leaning against or putting weight on the sash.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14515, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14515, filed 5/9/73 and Order 73-4, § 296-24-14515, filed 5/7/73.]

WAC 296-24-14517 Ladders. (1) All movable ladders shall be provided with rough surface feet or other suitable means to prevent slipping.

(2) A person shall be placed at the foot of all ladders over eighteen feet in length.

(3) No person shall be required to stand within four rungs of the top of any ladder.

(4) No ladder shall be used where the base of the ladder is above grade except where it is securely fastened so as to prevent it from slipping or falling.

[Order 73-5, § 296-24-14517, filed 5/9/73 and Order 73-4, § 296-24-14517, filed 5/7/73.]

WAC 296-24-14519 Boatswain's chairs. An employee shall be secured in the boatswain's chair with a safety belt or rope, and shall have a short rope with a sliding hitch between the employee's body or the chair and the hoistline.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-14519, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-14519, filed 5/9/73 and Order 73-4, § 296-24-14519, filed 5/7/73.]

PART C
MACHINERY AND MACHINE GUARDING

WAC 296-24-150 Machinery and machine guarding—General requirements for all machines—Scope and application. (1) All sections of this chapter which include WAC 296-24-150 in the section number apply to machinery and machine guarding.

(2) All sections which include WAC 296-24-150 in the section number also applies to combination, multipurpose powered machines, commonly referred to as "iron workers, " that punch, shear, notch, cope, and form metals or other materials and to single-end punches, double-end punches, struc-

tural shearing machines, notching machines, coping machines, beam punches, detail punches, and spacing punches. It also applies to machines similar in construction and function to mechanical power presses, but which are specifically identified by the respective manufacturers as "iron workers, " and to machines whose most distinguishing feature is the multiple work stations at which various operations may be performed singly or simultaneously, including, but not limited to, punching, shearing, notching, coping, and forming.

(3) Mechanical powered machines that shear, punch, form, or assemble metal or material by means of tools or dies attached to slides, and are identified by their respective manufacturers as "mechanical power presses" are regulated by sections which include WAC 296-24-195 in the subsection number.

(4) Machines used in the forming of hot metal including hot trimming presses, forging hammers, hot forging presses, upsetters, hot bending and hot metal presses, etc., are regulated by WAC 296-24-200.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-150, filed 1/10/91, effective 2/12/91; 89-11-035 (Order 89-03), § 296-24-150, filed 5/15/89, effective 6/30/89; Order 74-27, § 296-24-150, filed 5/7/74; Order 73-5, § 296-24-150, filed 5/9/73 and Order 73-4, § 296-24-150, filed 5/7/73.]

WAC 296-24-15001 Machine guarding. (1) Types of guarding. One or more methods of machine guarding shall be provided to protect the operator and other employees in the machine area from hazards such as those created by point of operation, ingoing nip points, rotating parts, flying chips and sparks. Examples of guarding methods are—barrier guards, two-hand tripping devices, electronic safety devices, etc.

(2) General requirements for machine guards. Guards shall be affixed to the machine where possible and secured elsewhere if for any reason attachment to the machine is not possible. The guard shall be such that it does not offer an accident hazard in itself.

(3) Point of operation guarding.

(a) Point of operation is the area on a machine where work is actually performed upon the material being processed.

(b) The point of operation of machines whose operation exposes an employee to injury, shall be guarded. The guarding device shall be in conformity with any appropriate standards therefor, or, in the absence of applicable specific standards, shall be so designed and constructed as to prevent the operator from having any part of the employee's body in the danger zone during the operating cycle.

(c) Circular meat cutting saws shall be guarded in one of the following ways:

(i) A suspended counter-balanced circular meat cutting saw that requires two-handed operation shall be deemed adequately guarded if provided with a guard that covers at least twenty-five degrees of the circumference of the blade and it conforms to the requirements of (c)(iv) of this subsection.

(ii) A suspended counter-balanced circular meat cutting saw that requires only one-handed operation shall be deemed adequately guarded if provided with a guard that covers at least ninety degrees of the circumference of the blade and it conforms to the requirements of (c)(iv) of this subsection.

(iii) A nonsuspended circular meat saw, either one-handed or two-handed operation, shall be deemed adequately guarded if provided with a guard that covers at least ninety degrees of the circumference of the blade and it conforms to the requirements of (c)(iv) of this subsection.

(iv) All circular meat cutting saws shall conform to the following:

(A) A "deadman" control shall be required.

(B) The guard protecting the operator from contact with the blade shall be located between the operator and the blade.

(C) The maximum number of degrees of circumferential guarding of the blade shall be provided based on specific applications in meat cutting operations.

(D) A brake that automatically activates upon release of the operating control(s) is required.

(d) Special handtools for placing and removing material shall be such as to permit easy handling of material without the operator placing a hand in the danger zone. Such tools shall not be in lieu of other guarding required by this section, but can only be used to supplement protection provided.

(e) The following are some of the machines which usually require point of operation guarding:

(i) Guillotine cutters.

(ii) Shears.

(iii) Alligator shears.

(iv) Power presses. (Including platen presses.)

(v) Milling machines.

(vi) Power saws.

(vii) Jointers.

(viii) Portable power tools.

(ix) Forming rolls and calenders.

(4) Barrels, containers, and drums. Revolving drums, barrels, and containers shall be guarded by an enclosure which is interlocked with the drive mechanism, so that the barrel, drum, or container cannot revolve unless the guard enclosure is in place.

(5) Exposure of blades. When the periphery of the blades of a fan is less than seven feet above the floor or working level, the blades shall be guarded. The guard shall have openings no larger than one-half inch. Safeguards shall be so constructed that rods, pipes, or like material being handled by workers will not enter same, and come in contact with moving machinery. Fan blade guards of any material are acceptable where the material provides protection to workers and meets the requirements of Table O-12 of WAC 296-24-20531.

(6) Cams and other machine parts which move in such a manner as to create shearing or crushing hazards shall, if exposed to contact, be guarded with a standard safeguard.

(7) Guarding food waste disposal equipment. "Garb-el" or equipment with similar configuration and operational characteristics, will have the worm screw conveyor completely covered by a properly designed and mounted trimboard cover in place during operation of the mechanism.

(8) Garbage disposal units with feed-openings or charging-throats, large enough to allow body parts to contact points of operation shall be guarded:

(a) WAC 296-24-20531, Table O-12 provides mesh size or crossed-metal strip opening and distance of installation from the points of operation which shall be used.

(b) The guard material shall be of sufficient strength that a downward thrust of a body part will not cause the guard to stretch or open larger than two inches.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-15001, filed 7/20/94, effective 9/20/94; 91-03-044 (Order 90-18), § 296-24-15001, filed 1/10/91, effective 2/12/91; 90-03-029 (Order 89-20), § 296-24-15001, filed 1/11/90, effective 2/26/90; 89-11-035 (Order 89-03), § 296-24-15001, filed 5/15/89, effective 6/30/89; Order 74-27, § 296-24-15001, filed 5/7/74; Order 73-5, § 296-24-15001, filed 5/9/73 and Order 73-4, § 296-24-15001, filed 5/7/73.]

WAC 296-24-15003 Anchoring fixed machinery. Machines designed for a fixed location shall be securely anchored to prevent walking or moving.

However, machines using rubber feet or other nonskid (high coefficient of friction) foot pads or similar vibration dampening materials (in lieu of anchoring fixed machinery to prevent walking) shall be acceptable provided the machines do not present a tipping or falling-over or walking hazard.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-15003, filed 1/10/91, effective 2/12/91; Order 73-5, § 296-24-15003, filed 5/9/73 and Order 73-4, § 296-24-15003, filed 5/7/73.]

WAC 296-24-15005 Means to prevent slipping. Operators of dangerous machinery, such as shapers, jointers, and circular saws, shall be safeguarded against slipping on smooth, oily or otherwise slippery floor, where they stand while at the point of operation of such dangerous machinery, by covering such portion of the floor with a rubber mat, cork, nonslip composition flooring, or some other effective means of preventing slipping.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-15005, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-15005, filed 5/9/73 and Order 73-4, § 296-24-15005, filed 5/7/73.]

WAC 296-24-15007 Machines shall be stopped when making repairs. All power-driven machinery shall be stopped and brought to a complete standstill before any repairs or adjustments are made or pieces of material or refuse removed, except where motion is necessary to make adjustment.

[Order 74-27, § 296-24-15007, filed 5/7/74.]

WAC 296-24-15009 Counterweights. All counterweights exposed to contact shall be guarded with standard safeguards.

[Order 74-27, § 296-24-15009, filed 5/7/74.]

WAC 296-24-165 Fixed and portable power tool requirements. Scope and application. All sections which include WAC 296-24-165 in the section number shall apply to the use of fixed and portable power tools for processing materials that generate chips or dust from wood, reconstituted wood products, or plastics in the processing of a wood piece.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-165, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-165, filed 7/13/83, effective 9/12/83; Order 76-6, § 296-24-165, filed 3/1/76; Order 73-5, § 296-24-165, filed 5/9/73 and Order 73-4, § 296-24-165, filed 5/7/73.]

WAC 296-24-16501 Definitions. (1) "Point of operations" means that point at which cutting, shaping, boring, or forming is accomplished upon the stock.

(2) "Push stick" means a narrow strip of wood or other soft material with a notch cut into one end and which is used to push short pieces of material through saws.

(3) "Block" means a short block of wood, provided with a handle similar to that of a plane and a shoulder at the rear end, which is used for pushing short stock over revolving cutters.

[Order 73-5, § 296-24-16501, filed 5/9/73 and Order 73-4, § 296-24-16501, filed 5/7/73.]

WAC 296-24-16503 Machine construction general. (1) Each machine shall be so constructed as to be free from sensible vibration when the largest size tool is mounted and run idle at full speed.

(2) Arbors and mandrels shall be constructed so as to have firm and secure bearing and be free from play.

(3) Any automatic cutoff saw that power strokes continuously without the operator being able to control each stroke shall not be used in work situations where employees are exposed to hazards during loading, clamping, cut-off, unloading operations, etc.

(4) Saw frames or tables shall be constructed with lugs cast on the frame or with an equivalent means to limit the size of the saw blade that can be mounted, so as to avoid overspeed caused by mounting a saw larger than intended.

(5) Circular saw fences shall be so constructed that they can be firmly secured to the table or table assembly without changing their alignment with the saw. For saws with tilting tables or tilting arbors the fence shall be so constructed that it will remain in a line parallel with the saw, regardless of the angle of the saw with the table.

(6) Circular saw gages shall be so constructed as to slide in grooves or tracks that are accurately machined, to insure exact alignment with the saw for all positions of the guide.

(7) Hinged saw tables shall be so constructed that the table can be firmly secured in any position and in true alignment with the saw.

(8) All belts, pulleys, gears, shafts, and moving parts shall be guarded in accordance with the specific requirements of WAC 296-24-20501 through 296-24-20533.

(9) It is recommended that each power-driven machine be provided with a disconnect switch that can be locked in the off position.

(10) The frames and all exposed, noncurrent-carrying metal parts of portable electric machinery operated at more than 90 volts to ground shall be grounded and other portable motors driving electric tools which are held in the hand while being operated shall be grounded if they operate at more than 90 volts to ground. The ground shall be provided through use of a separate ground wire and polarized plug and receptacle.

(11) For all circular saws where conditions are such that there is a possibility of contact with the portion of the saw either beneath or behind the table, that portion of the saw shall be covered with an exhaust hood, or, if no exhaust system is required, with a guard that shall be so arranged as to prevent accidental contact with the saw.

(12) Revolving double arbor saws shall be fully guarded in accordance with all the requirements for circular crosscut saws or with all the requirements for circular ripsaws, according to the kind of saws mounted on the arbors.

(13) No saw, cutter head, or tool collar shall be placed or mounted on a machine arbor unless the tool has been accurately machined to size and shape to fit the arbor.

(14) Combs (featherboards) or suitable jigs shall be provided at the workplace for use when a standard guard cannot be used, as in dadoing, grooving, jointing, moulding and rabbeting.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-16503, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16503, filed 7/13/83, effective 9/12/83; 82-13-045 (Order 82-22), § 296-24-16503, filed 6/11/82; Order 73-5, § 296-24-16503, filed 5/9/73 and Order 73-4, § 296-24-16503, filed 5/7/73.]

WAC 296-24-16505 Machine controls and equipment. (1) A mechanical or electrical power control shall be provided on each machine to make it possible for the operator to cut off the power from each machine without leaving the operating position.

(2) On machines driven by belts and shafting, a locking-type belt shifter or an equivalent positive device shall be used.

(3) On applications where injury to the operator might result if motors were to restart after power failures, provision shall be made to prevent machines from automatically restarting upon restoration of power.

(4) Power controls and operating controls should be located within easy reach of the operator while at the regular work location, making it unnecessary to reach over the cutter to make adjustments. This does not apply to constant pressure controls used only for setup purposes.

(5) On each machine operated by electric motors, positive means shall be provided for rendering such controls or devices inoperative while repairs or adjustments are being made to the machines they control.

(6) Each operating treadle shall be protected against unexpected or accidental tripping.

(7) Feeder attachments shall have the feed rolls or other moving parts so covered or guarded as to protect the operator from hazardous points.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-16505, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-16505, filed 5/9/73 and Order 73-4, § 296-24-16505, filed 5/7/73.]

WAC 296-24-16507 Hand-fed ripsaws. (1) Each circular hand-fed ripsaw shall be guarded by a hood which shall completely enclose that portion of the saw above the table and that portion of the saw above the material being cut. The hood and mounting shall be arranged so that the hood will automatically adjust itself to the thickness of and remain in contact with the material being cut but it shall not offer any considerable resistance to insertion of material to saw or to passage of the material being sawed. The hood shall be made of adequate strength to resist blows and strains incidental to reasonable operation, adjusting, and handling, and shall be so designed as to protect the operator from flying splinters and broken saw teeth. It shall be made of material that is soft enough so that it will be unlikely to cause tooth breakage. The material should not shatter when broken, should be nonexplosive, and should be no more flammable than wood. The hood shall be so mounted as to insure that its operation will be positive, reliable, and in true alignment with the saw; and the mounting shall be adequate in strength to resist any reasonable side thrust or other force tending to throw it out of line.

(2) Circular hand-fed ripsaw blades may be guarded with a fixed enclosure, fixed barrier guard, or a manually adjusted guard when specific conditions prevent use of the standard automatic adjusting guard. In those instances where alternate fixed-type guards are used, they must provide protection equivalent to the protection afforded by automatically adjusting guards. The alternate guards must be used in accordance with manufacturer's instructions and under sufficient supervision to ensure consistent compliance with the intent of the standard.

(3) Each hand-fed circular ripsaw shall be furnished with a spreader to prevent material from squeezing the saw or being thrown back on the operator. The spreader shall be made of hard tempered steel, or its equivalent, and shall be thinner than the saw kerf. It shall be of sufficient width to provide adequate stiffness or rigidity to resist any reasonable side thrust or blow tending to bend or throw it out of position. The spreader shall be attached so that it will remain in true alignment with the saw even when either the saw or table is tilted, and should be placed so that there is not more than 1/2-inch space between the spreader and the back of the saw when the largest saw is mounted in the machine. The provision of a spreader in connection with grooving, dadoing, or rabbeting is not required. On the completion of such operations; the spreader shall be immediately replaced.

(4) Each hand-fed circular ripsaw shall be provided with nonkickback fingers or dogs so located as to oppose the thrust or tendency of the saw to pick up the material or to throw it back toward the operator. They shall be designed to provide adequate holding power for all the thicknesses of materials being cut.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-16507, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-16507, filed 5/9/73 and Order 73-4, § 296-24-16507, filed 5/7/73.]

WAC 296-24-16509 Hand-fed crosscut table saws. (1) Each circular crosscut table saw shall be guarded by a hood which shall meet all the requirements of WAC 296-24-16507(1) for hoods for circular ripsaws.

(2) Each circular crosscut saw should also be provided with a spreader which should meet all the requirements of WAC 296-24-16507.

[Order 73-5, § 296-24-16509, filed 5/9/73 and Order 73-4, § 296-24-16509, filed 5/7/73.]

WAC 296-24-16511 Circular resaws. (1) Each circular resaw shall be guarded by a hood or shield of metal above the saw. This hood or shield shall be so designed as to guard against danger from flying splinters or broken saw teeth.

(2) Each circular resaw (other than self-feed saws with a roller or wheel at back of the saw) shall be provided with a spreader fastened securely behind the saw. The spreader shall

be slightly thinner than the saw kerf and slightly thicker than the saw disk.

[Order 73-5, § 296-24-16511, filed 5/9/73 and Order 73-4, § 296-24-16511, filed 5/7/73.]

WAC 296-24-16513 Self-feed circular saws. (1) Feed rolls and saws shall be protected by a hood or guard to prevent the hands of the operator from coming in contact with the in-running rolls at any point. The guard shall be constructed of heavy material, preferably metal, and the bottom of the guard shall come down to within three-eighths inch of the plane formed by the bottom or working surfaces of the feed rolls. This distance (three-eighths inch) may be increased to three-fourths inch, provided the lead edge of the hood is extended to be not less than five and one-half inches in front of the nip point between the front roll and the work.

(2) Each self-feed circular ripsaw shall be provided with sectional nonkickback fingers for the full width of the feed rolls. They shall be located in front of the saw and so arranged as to be in continual contact with the material being fed.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16513, filed 7/13/83, effective 9/12/83; Order 73-5, § 296-24-16513, filed 5/9/73 and Order 73-4, § 296-24-16513, filed 5/7/73.]

WAC 296-24-16515 Swing cutoff saws. The requirements of this section are also applicable to sliding cutoff saws mounted above the table.

(1) Each swing cutoff saw shall be provided with a hood that will completely enclose the upper half of the saw, the arbor end, and the point of operation at all positions of the saw. The hood shall be constructed in such a manner and of such material that it will protect the operator from flying splinters and broken saw teeth. Its hood shall be so designed that it will automatically cover the lower portion of the blade, so that when the saw is returned to the back of the table the hood will rise on top of the fence, and when the saw is moved forward the hood will drop on top of and remain in contact with the table or material being cut.

(2) Swing cutoff saws may be guarded with a fixed enclosure, fixed barrier guard, or a manually adjusted guard when specific conditions prevent use of the standard automatic adjusting guard. In those instances where alternate fixed-type guards are used, they must provide protection equivalent to the protection afforded by automatically adjusting guards. The alternate guards must be used in accordance with manufacturer's instructions and under sufficient supervision to ensure consistent compliance with the intent of the standard.

(3) Each swing cutoff saw shall be provided with an effective device to return the saw automatically to the back of the table when released at any point of its travel. Such a device shall not depend for its proper functioning upon any rope, cord, or spring. If there is a counterweight, the bolts supporting the bar and counterweight shall be provided with cotter pins; and the counterweight shall be prevented from dropping by either a bolt passing through both the bar and counterweight, or a bolt put through the extreme end of the bar, or, where the counterweight does not encircle the bar, a safety chain attached to it.

(4) Limit chains or other equally effective devices shall be provided to prevent the saw from swinging beyond the front or back edges of the table, or beyond a forward position where the gullets of the lowest saw teeth will rise above the table top.

(5) Inverted swing cutoff saws shall be provided with a hood that will cover the part of the saw that protrudes above the top of the table or above the material being cut. It shall automatically adjust itself to the thickness of and remain in contact with the material being cut.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-16515, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-16515, filed 5/9/73 and Order 73-4, § 296-24-16515, filed 5/7/73.]

WAC 296-24-16517 Radial saws. (1) The upper hood shall completely enclose the upper portion of the blade down to a point that will include the end of the saw arbor. The upper hood shall be constructed in such a manner and of such material that it will protect the operator from flying splinters, broken saw teeth, etc., and will deflect sawdust away from the operator. The sides of the lower exposed portion of the blade shall be guarded to the full diameter of the blade by a device that will automatically adjust itself to the thickness of the stock and remain in contact with stock being cut to give maximum protection possible for the operation being performed.

(2) Each radial saw used for ripping shall be provided with nonkickback fingers or dogs located on both sides of the saw so as to oppose the thrust or tendency of the saw to pick up the material or to throw it back toward the operator. They shall be designed to provide adequate holding power for all the thickness of material being cut.

(3) An adjustable stop shall be provided to prevent the forward travel of the blade beyond the position necessary to complete the cut.

(4) Installation shall be in such a manner that the front end of the unit will be slightly higher than the rear, so as to cause the cutting head to return to the starting position in the following manner when released by the operator:

(a) The cutting head or carriage shall return to the rest or starting position in a gentle motion;

(b) The cutting head or carriage shall not bounce or recoil when reaching the rest or starting position; and

(c) The cutting head or carriage will remain in the rest or starting position.

(5) Ripping and ploughing shall be against the direction in which the saw turns. The direction of the saw rotation shall be conspicuously marked on the hood. In addition, a permanent label not less than 1 1/2 inches by 3/4 inch with standard proportional lettering shall be affixed to the rear of the guard hood at approximately the level of the arbor, where the blade teeth exit the upper hood during the operation of the saw, reading as follows: "Danger: Do not rip or plough from this end." Such a label shall be colored standard danger red.

(6) Radial saws may be guarded with a fixed enclosure, fixed barrier guard, or a manually adjusted guard when specific conditions prevent use of the standard automatic adjusting guard. In those instances where alternate fixed-type guards are used, they must provide protection equivalent to the protection afforded by automatically adjusting guards. The alternate guards must be used in accordance with manu-

facturer's instruction and under sufficient supervision to ensure consistent compliance with the intent of the standard.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-16517, filed 1/11/90, effective 2/26/90; 89-11-035 (Order 89-03), § 296-24-16517, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-16517, filed 5/9/73 and Order 73-4, § 296-24-16517, filed 5/7/73.]

WAC 296-24-16519 Bandsaws and band resaws. (1) All portions of the saw blade shall be enclosed or guarded, except for the working portion of the blade between the bottom of the guide rolls and the table. Bandsaw wheels shall be fully encased. The outside periphery of the enclosure shall be solid. The front and back of the band wheels shall be either enclosed by solid material or by wire mesh or perforated metal. Such mesh or perforated metal shall be not less than 0.037 inch (U.S. Gage No. 20), and the openings shall be not greater than three-eighths inch. Solid material used for this purpose shall be of an equivalent strength and firmness. The guard for the portion of the blade between the sliding guide and the upper-saw-wheel guard shall protect the saw blade at the front and outer side. This portion of the guard shall be self-adjusting to raise and lower with the guide. The upper-wheel guard shall be made to conform to the travel of the saw on the wheel, and the top member of the guard should have at least a 2-inch clearance outside the saw and be lined with smooth material, preferably metal. Effective brakes should be provided to stop the wheel in case of blade breakage.

(2) Each bandsaw machine shall be provided with a tension control device to indicate a proper tension for the standard saws used on the machine, in order to assist in the elimination of saw breakage due to improper tension.

(3) Feed rolls of band resaws shall be protected with a suitable guard to prevent the hands of the operator from coming in contact with the in-running rolls at any point. The guard shall be constructed of heavy material, preferably metal, and the edge of the guard shall come to within three-eighths inch of the plane formed by the inside face of the feed roll in contact with the stock being cut.

[Order 73-5, § 296-24-16519, filed 5/9/73 and Order 73-4, § 296-24-16519, filed 5/7/73.]

WAC 296-24-16521 Jointers. (1) Each hand-fed planer and jointer with horizontal head shall be equipped with a cylindrical cutting head, the knife projection of which shall not exceed one-eighth inch beyond the cylindrical body of the head.

(2) The opening in the table shall be kept as small as possible. The clearance between the edge of the rear table and the cutter head shall be not more than one-eighth inch. The table throat opening shall be not more than two and one-half inches when tables are set or aligned with each other for zero cut.

(3) Each hand-fed jointer with a horizontal cutting head shall have an automatic guard which will cover all the section of the head on the working side of the fence or gage. The guard shall effectively keep the operator's hand from coming in contact with the revolving knives. The guard shall automatically adjust itself to cover the unused portion of the head and shall remain in contact with the material at all times.

(4) Each hand-fed jointer with horizontal cutting head shall have a guard which will cover the section of the head back of the gage or fence.

(5) Each jointer with vertical head shall have either an exhaust hood or other guard so arranged as to enclose completely the revolving head, except for a slot of such width as may be necessary and convenient for the application of the material to be jointed.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16521, filed 7/13/83, effective 9/12/83; Order 73-5, § 296-24-16521, filed 5/9/73 and Order 73-4, § 296-24-16521, filed 5/7/73.]

WAC 296-24-16523 Tenoning machines. (1) Feed chains and sprockets of all double end tenoning machines shall be completely enclosed, except for that portion of chain used for conveying the stock.

(2) At the rear ends of frames over which feed conveyors run, sprockets and chains shall be guarded at the sides by plates projecting beyond the periphery of sprockets and the ends of lugs.

(3) Each tenoning machine shall have all cutting heads, and saws if used, covered by metal guards. These guards shall cover at least the unused part of the periphery of the cutting head. If such a guard is constructed of sheet metal, the material used shall be not less than one-sixteenth inch in thickness, and if cast iron is used, it shall be not less than three-sixteenths inch in thickness.

(4) Where an exhaust system is used, the guard shall form part or all of the exhaust hood and shall be constructed of metal of a thickness not less than that specified in subdivision (3) of this subsection.

[Order 76-6, § 296-24-16523, filed 3/1/76; Order 73-5, § 296-24-16523, filed 5/9/73 and Order 73-4, § 296-24-16523, filed 5/7/73.]

WAC 296-24-16525 Boring and mortising machines. (1) Safety-bit chucks with no projecting set screws shall be used.

(2) Boring bits should be provided with a guard that will enclose all portions of the bit and chuck above the material being worked.

(3) The top of the cutting chain and driving mechanism shall be enclosed.

(4) If there is a counterweight, one of the following or equivalent means shall be used to prevent its dropping:

(a) It shall be bolted to the bar by means of a bolt passing through both bar and counterweight;

(b) A bolt shall be put through the extreme end of the bar;

(c) Where the counterweight does not encircle the bar, a safety chain shall be attached to it;

(d) Other types of counterweights shall be suspended by chain or wire rope and shall travel in a pipe or other suitable enclosure wherever they might fall and cause injury.

(5) Universal joints on spindles of boring machines shall be completely enclosed in such a way as to prevent accidental contact by the operator.

(6) Each operating treadle shall be covered by an inverted U-shaped metal guard, fastened to the floor, and of adequate size to prevent accidental tripping.

[Order 73-5, § 296-24-16525, filed 5/9/73 and Order 73-4, § 296-24-16525, filed 5/7/73.]

WAC 296-24-16527 Shapers and similar equipment. (1) The cutting heads of each shaper, hand-fed panel raiser, or other similar machine not automatically fed, shall be enclosed with a cage or adjustable guard so designed as to keep the operator's hand away from the cutting edge. The diameter of circular shaper guards shall be not less than the greatest diameter of the cutter. In no case shall a warning device of leather or other material attached to the spindle be acceptable.

(2) All double-spindle shapers shall be provided with a spindle starting and stopping device for each spindle.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16527, filed 7/13/83, effective 9/12/83; Order 73-5, § 296-24-16527, filed 5/9/73 and Order 73-4, § 296-24-16527, filed 5/7/73.]

WAC 296-24-16529 Planing, molding, sticking, and matching machines. (1) Each planing, molding, sticking, and matching machine shall have all cutting heads, and saws if used, covered by a metal guard. If such guard is constructed of sheet metal, the material used shall be not less than 1/16 inch in thickness, and if cast iron is used, it shall be not less than three-sixteenths inch in thickness.

(2) Where an exhaust system is used, the guards shall form part or all of the exhaust hood and shall be constructed of metal of a thickness not less than that specified in (1) of this section.

(3) Feed rolls shall be guarded by a hood or suitable guard to prevent the hands of the operator from coming in contact with the in-running rolls at any point. The guard shall be fastened to the frame carrying the rolls so as to remain in adjustment for any thickness of stock.

(4) Surfacers or planers used in thicknessing multiple pieces of material simultaneously shall be provided with sectional infeed rolls having sufficient yield in the construction of the sections to provide feeding contact pressure on the stock, over the permissible range of variation in stock thickness specified or for which the machine is designed. In lieu of such yielding sectional rolls, suitable section kickback finger devices shall be provided at the infeed end.

[Order 73-5, § 296-24-16529, filed 5/9/73 and Order 73-4, § 296-24-16529, filed 5/7/73.]

WAC 296-24-16531 Profile and swing-head lathes and heel turning machine. (1) Each profile and swing-head lathe shall have all cutting heads covered by a metal guard. If such a guard is constructed of sheet metal, the material used shall be not less than one-sixteenth inch in thickness; and if cast iron is used, it shall not be less than three-sixteenths inch in thickness.

(2) Cutting heads on turning lathes, whether rotating or not, shall be covered as completely as possible by hoods or shields, which should be hinged to the machines so that they can be thrown back for making adjustments.

(3) Shoe last and spoke lathes, doweling machines, heel turning machines, and other automatic turning lathes of the rotating knife type shall be equipped with hoods enclosing the cutter blades completely except at the contact points while the stock is being cut.

(4) Lathes used for turning long pieces of stock held only between the two centers shall be equipped with long curved guards extending over the tops of the lathes in order to prevent the work pieces from being thrown out of the machines if they should become loose.

(5) Where an exhaust system is used, the guard shall form part or all of the exhaust hood and shall be constructed of metal of a thickness not less than that specified in subsection (1) of this section.

(6) Wood turning lathes of the type found in school/vocational classrooms or woodshops are regulated by WAC 296-24-15001.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-16531, filed 1/10/91, effective 2/12/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16531, filed 7/13/83, effective 9/12/83; Order 73-5, § 296-24-16531, filed 5/9/73 and Order 73-4, § 296-24-16531, filed 5/7/73.]

WAC 296-24-16533 Sanding machines. (1) Feed rolls of self-feed sanding machines shall be protected with a semi-cylindrical guard to prevent the hands of the operator from coming in contact with the in-running rolls at any point. The guard shall be constructed of heavy material, preferably metal, and firmly secured to the frame carrying rolls so as to remain in adjustment for any thickness of stock. The bottom of the guard should come down to within three-eighths inch of a plane formed by the bottom or contact face of the feed roll where it touches the stock.

(2) Each drum sanding machine shall have an exhaust hood, or other guard if no exhaust system is required, so arranged as to enclose the revolving drum, except for that portion of the drum above the table, if a table is used, which may be necessary and convenient for the application of the material to be finished.

(3) Each disk sanding machine shall have the exhaust hood, or other guard if no exhaust system is required, so arranged as to enclose the revolving disk, except for that portion of the disk above the table, if a table is used, which may be necessary for the application of the material to be finished.

(4) Belt sanding machines shall be provided with guards at each nip point where the sanding belt runs on to a pulley. These guards shall effectively prevent the hands or fingers of the operator from coming in contact with the nip points. The unused run of the sanding belt shall be guarded against accidental contact.

[Order 73-5, § 296-24-16533, filed 5/9/73 and Order 73-4, § 296-24-16533, filed 5/7/73.]

WAC 296-24-16535 Veneer cutters and wringers. (1) Veneer slicer knives shall be guarded to prevent accidental contact with knife edge, at both front and rear.

(2) Veneer clippers shall have automatic feed or shall be provided with a guard which will make it impossible to place a finger or fingers under the knife while feeding or removing the stock.

(3) Sprockets on chain or slat-belt conveyors shall be enclosed.

(4) Where practicable, hand and foot-power guillotine veneer cutters shall be provided with rods or plates or other

satisfactory means, so arranged on the feeding side that the hands cannot reach the cutting edge of the knife while feeding or holding the stock in place.

(5) Power-driven guillotine veneer cutters, except continuous feed trimmers, shall be equipped with:

(a) Starting devices which require the simultaneous action of both hands to start the cutting motion and of at least one hand on a control during the complete stroke of the knife; or

(b) An automatic guard which will remove the hands of the operator from the danger zone at every descent of the blade, used in conjunction with one-hand starting devices which require two distinct movements of the device to start the cutting motion, and so designed as to return positively to the nonstarting position after each complete cycle of the knife.

(6) Where two or more workers are employed at the same time on the same power-driven guillotine veneer cutter equipped with two-hand control, the device shall be so arranged that each worker shall be required to use both hands simultaneously on the controls to start the cutting motion, and at least one hand on a control to complete the cut.

(7) Power-driven guillotine veneer cutters, other than continuous trimmers, shall be provided, in addition to the brake or other stopping mechanism, with an emergency device which will prevent the machine from operating in the event of failure of the brake when the starting mechanism is in the nonstarting position.

[Order 73-5, § 296-24-16535, filed 5/9/73 and Order 73-4, § 296-24-16535, filed 5/7/73.]

WAC 296-24-16537 Miscellaneous machines. (1) The feed rolls of roll type glue spreaders shall be guarded by a semicylindrical guard. The bottom of the guard shall come to within three-eighths inch of a plane formed by bottom or contact face of the feed roll where it touches the stock.

(2) Drag saws shall be so located as to give at least a four-foot clearance for passage when the saw is at the extreme end of the stroke; or if such clearance is not obtainable, the saw and its driving mechanism shall be provided with a standard enclosure.

(3) For combination or universal machines each point of operation of any tool shall be guarded as required for such a tool in a separate machine.

(4) The mention of specific machines in WAC 296-24-16503 through 296-24-16535, inclusive, is not intended to exclude other machines from the requirement that suitable guards and exhaust hoods be provided to reduce to a minimum the hazard due to the point of operation of such machines.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16537, filed 7/13/83, effective 9/12/83; Order 73-5, § 296-24-16537, filed 5/9/73 and Order 73-4, § 296-24-16537, filed 5/7/73.]

WAC 296-24-16539 Inspection and maintenance of machinery. (1) Dull, badly set, improperly filed, or improperly tensioned saws shall be immediately removed from service, before they begin to cause the material to stick, jam, or kick back when it is fed to the saw at normal speed. Saws to which gum has adhered on the sides shall be immediately cleaned.

(2) All knives and cutting heads of machines shall be kept sharp, properly adjusted, and firmly secured. Where two or more knives are used in one head, they shall be properly balanced.

(3) Bearings shall be kept free from lost motion and shall be well lubricated.

(4) Arbors of all circular saws shall be free from play.

(5) Sharpening or tensioning of saw blades or cutters shall be done only by persons of demonstrated skill in this kind of work.

(6) Emphasis is placed upon the importance of maintaining cleanliness around machinery, particularly as regards the effective functioning of guards and the prevention of fire hazards in switch enclosures, bearings, and motors.

(7) All cracked saws shall be removed from service.

(8) The practice of inserting wedges between the saw disk and the collar to form what is commonly known as a "wobble saw" shall not be permitted.

(9) Push sticks or push blocks shall be provided at the work place in the several sizes and types suitable for the work to be done.

(10) The knife blade of jointers shall be so installed and adjusted that it does not protrude more than one-eighth inch beyond the cylindrical body of the head. Push sticks or push blocks shall be provided at the work place in the several sizes and types suitable for the work to be done.

(11) Whenever veneer slicers or rotary veneer-cutting-machines have been shutdown for the purpose of inserting logs or to make adjustments, operators shall make sure that machine is clear and other workers are not in a hazardous position before starting the machine.

(12) Operators shall not ride the carriage of a veneer slicer.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-16539, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 83-15-017 (Order 83-19), § 296-24-16539, filed 7/13/83, effective 9/12/83; 82-13-045 (Order 82-22), § 296-24-16539, filed 6/11/82; Order 73-5, § 296-24-16539, filed 5/9/73 and Order 73-4, § 296-24-16539, filed 5/7/73.]

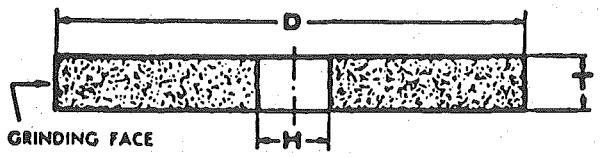
WAC 296-24-180 Abrasive wheel machinery.

[Order 73-5, § 296-24-180, filed 5/9/73 and Order 73-4, § 296-24-180, filed 5/7/73.]

WAC 296-24-18001 Definitions. (1) "Type 1 straight wheels" means wheels having diameter, thickness, and hole size dimensions, and they should be used only on the periphery. Type 1 wheels shall be mounted between flanges. See Figure No. O-1.

(a) Limitation: Hole dimension (H) should not be greater than two-thirds of wheel diameter dimension (D) for precision, cylindrical, centerless, or surface grinding applications. Maximum hole size for all other applications should not exceed one-half wheel diameter.

Figure No. O-1
Type 1—Straight Wheels.



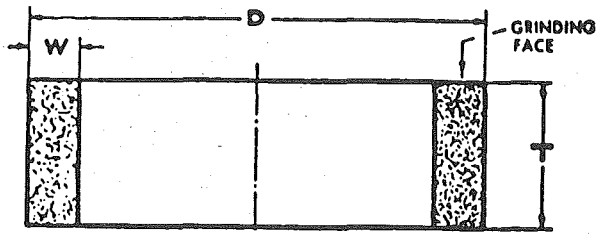
Type 1—Straight Wheel.

Peripheral grinding wheel having a diameter, thickness and hole.

(2) "Type 2 cylinder wheels" means wheels having diameter, wheel thickness, and rim thickness dimensions. Grinding is performed on the rim face only, dimension W. Cylinder wheels may be plain, plate mounted, inserted nut, or of the projecting stud type. See Figure No. O-2.

(a) Limitation: Rim height, T dimension, is generally equal to or greater than rim thickness, W dimension.

Figure No. O-2
(Type 2—Cylinder Wheel)



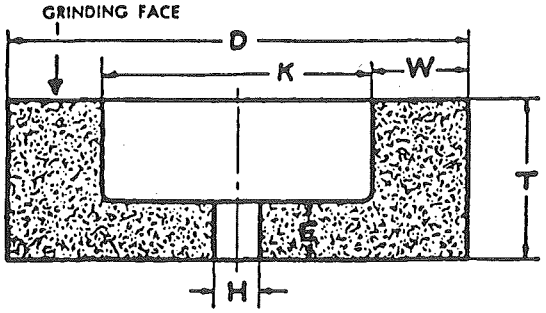
Type 2—Cylinder Wheel

Side grinding wheel having a diameter, thickness and wall—wheel is mounted on the diameter.

(3) "Type 6 straight cup wheels" means wheels having diameter, thickness, hole size, rim thickness, and back thickness dimensions. Grinding is always performed on rim face, W dimension. See Figure No. O-3.

(a) Limitation: Minimum back thickness, E dimension, should not be less than one-fourth T dimension. In addition, when unthreaded hole wheels are specified, the inside flat, K dimension, must be large enough to accommodate a suitable flange.

Figure No. O-3
(Type 6—Straight Cup Wheels)



Type 6—Straight Cup Wheel

Side grinding wheel having a diameter, thickness and hole with one side straight or flat and the opposite side recessed. This type, however, differs from Type 5 in that the grinding is performed on the wall of the abrasive created by the difference between the diameter of the recess and the outside diameter of the wheel. Therefore, the wall dimension "W" takes precedence over the diameter of the recess as an essential intermediate dimension to describe this shape type.

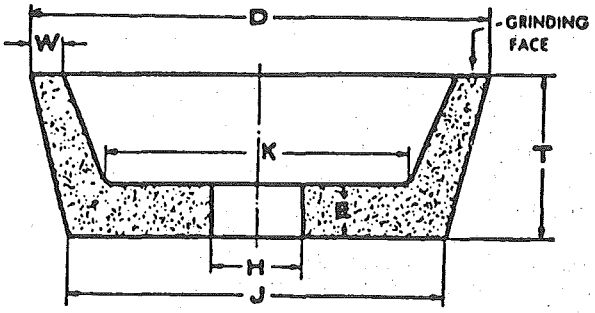
(4) "Type 11 flaring cup wheels" mean wheels having double diameter dimensions D and J and in addition have thickness, hole size, rim and back thickness dimensions. Grinding is always performed on rim face, W dimension. Type 11 wheels are subject to all limitations of use and mounting listed for type 6 straight sided cup wheels definition. See Figure No. O-4.

(a) Limitation: Minimum back thickness, E dimension, should not be less than one-fourth T dimension. In addition when unthreaded hole wheels are specified the inside flat, K dimension, shall be large enough to accommodate a suitable flange.

(5) "Modified types 6 and 11 wheels (terrazzo)" mean some type 6 and 11 cup wheels used in the terrazzo trade having tapered K dimensions to match a special tapered flange furnished by the machine builder. See Figure No. O-5.

(a) Limitation: These wheels shall be mounted only with a special tapered flange.

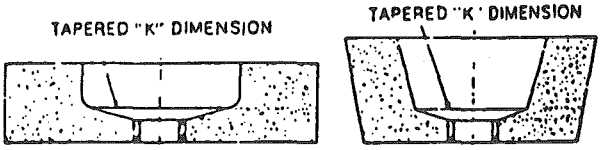
Figure No. O-4
Type 11—Flaring Cup Wheels



Type 11—Flaring Cup Wheel

Side grinding wheel having a wall flared or tapered outward from the back. Wall thickness at the back is normally greater than at the grinding face (W).

Figure No. O-5
Type 6 & 11—Wheels (Terrazzo)



Type 6 (Terrazzo)Type 11 (Terrazzo)
Typical examples of modified types 6 and 11 wheels (terrazzo) showing tapered K dimensions.

(6) "Types 27 and 28 depressed center wheels" mean wheels having diameter, thickness, and hole size dimensions. Both types are reinforced, organic bonded wheels having offset hubs which permit side and peripheral grinding operations without interference with the mounting. Type 27 wheels are manufactured with flat grinding rims permitting notching and cutting operations. Type 28 wheels have saucer shaped grinding rims.

(a) Limitations: Special supporting, back adapter and inside flange nuts are required for the proper mounting of these types of wheels subject to limitations of WAC 296-24-18007 (4)(a) and (b).

(b) Mounts which are affixed to the wheel by the manufacturer may not require an inside nut and shall not be reused.

(7) "Type 27A depressed center, cutting-off wheels" mean wheels having diameter, thickness, and hole size dimensions. They are reinforced, organic bonded, offset hub type wheels, usually 16 inches diameter and larger, specially designed for use on cutting-off machines where mounting nut or outer flange interference cannot be tolerated.

(a) Limitations: See WAC 296-24-18007.

(8) "Surface feet per minute" (s.f.p.m.) means the distance in feet any one abrasive grain on the peripheral surface of a grinding wheel travels in 1 minute.

$$\text{Surface Feet Per Minute} = \frac{3.1416 \times \text{diameter in inches} \times \text{r.p.m.}}{12}$$

or

$$.262 \times \text{diameter in inches} \times \text{r.p.m.}$$

Examples: (a) 24-inch diameter wheel, 1,000 revolutions per minute. Surface Feet per minute .262 X 24 X 1,000 = 6,288 s.f.p.m.

(b) 12-inch diameter wheel, 1,000 revolutions per minute. Surface Feet per minute .262 X 12 X 1,000 = 3,144 s.f.p.m.

(9) "Flanges" means collars, discs or plates between which wheels are mounted and are referred to as adaptor, sleeve, or back up type. See WAC 296-24-18007 for full description.

(10) "Snagging" means grinding which removes relatively large amounts of material without regard to close tolerances or surface finish requirements.

(11) "Off-hand grinding" means the grinding of any material or part which is held in the operator's hand.

(12) "Safety guard" means an enclosure designed to restrain the pieces of the grinding wheel and furnish all possible protection in the event that the wheel is broken in operation. See WAC 296-24-18005.

(13) "Cutting off wheels" mean wheels having diameter, thickness and hole size dimensions and are subject to all limitations of mounting and use listed for type 1 wheels, the definition in WAC 296-24-18001(1) and 296-24-18009. They may be steel centered, diamond abrasive or organic bonded abrasive of the plain or reinforced type.

(a) Limitation: Cutting off wheels are recommended only for use on specially designed and fully guarded machines and are subject to the following maximum thickness and hole size limitations.

Wheel diameter	Max. thickness (inch)
6 inch and smaller	3/16
Larger than 6 inches to 12 inches	1/4
Larger than 12 inches to 23 inches	3/8
Larger than 23 inches	1/2

(b) Maximum hole size for cutting-off wheels should not be larger than 1/4-wheel diameter.

(14) "Abrasive wheel" means a cutting tool consisting of abrasive grains held together by organic or inorganic bonds. Diamond and reinforced wheels are included.

(15) "Organic wheels" means wheels which are bonded by means of an organic material such as resin, rubber, shellac, or other similar bonding agent.

(16) "Inorganic wheels" means wheels which are bonded by means of inorganic material such as clay, glass, porcelain, sodium silicate, magnesium oxychloride, or metal. Wheels bonded with clay, glass, porcelain or related ceramic materials are characterized as "vitrified bonded wheels."

[Order 73-5, § 296-24-18001, filed 5/9/73 and Order 73-4, § 296-24-18001, filed 5/7/73.]

WAC 296-24-18003 General requirements. (1) Machine guarding. Abrasive wheels shall be used only on machines provided with safety guards as defined in WAC 296-24-18005, except:

(a) Wheels used for internal work while within the work being ground;

(b) Mounted wheels used in portable operations 2 inches and smaller in diameter; and

(c) Types 16, 17, 18, 18R, and 19 cones, plugs, and threaded hole pot balls where the work offers protection.

(2) Guard design. The safety guard shall cover the spindle end, nut, and flange projections. The safety guard shall be mounted so as to maintain proper alignment with the wheel, and the strength of the fastenings shall exceed the strength of the guard, except:

(a) Safety guards on all operations where the work provides a suitable measure of protection to the operator, may be so constructed that the spindle end, nut, and outer flange are exposed; and where the nature of the work is such as to entirely cover the side of the wheel, the side covers of the guard may be omitted; and

(b) The spindle end, nut, and outer flange may be exposed on machines designed as portable saws.

(3) Flanges. Grinding machines shall be equipped with flanges in accordance with WAC 296-24-18007.

(4) Work rests. On offhand grinding machines, work rests shall be used to support the work. They shall be of rigid construction and designed to be adjustable to compensate for wheel wear. Work rests shall be kept adjusted closely to the wheel with a maximum opening of one-eighth inch to prevent the work from being jammed between the wheel and the rest, which may cause wheel breakage. The work rest shall be securely clamped after each adjustment. The adjustment shall not be made with the wheel in motion.

(5) Excluded machinery. Natural sandstone wheels and metal, wooden, cloth, or paper discs, having a layer of abrasive on the surface are not covered by WAC 296-24-18003.

[Order 73-5, § 296-24-18003, filed 5/9/73; Order 73-4, § 296-24-18003, filed 5/7/73.]

WAC 296-24-18005 Guarding of abrasive wheel machinery. (1) Cup wheels. Cup wheels (types 6 and 11) shall be protected by:

(a) Safety guards as specified in (1) through (10) of this section.

(b) Band type guards as specified in (11) of this section; and

(c) Special "revolving cup guards" which mount behind the wheel and turn with it. They shall be made of steel or other material with adequate strength and shall enclose the wheel sides upward from the back for one-third of the wheel thickness. The mounting features shall conform with all requirements of this section. It is necessary to maintain clearance between the wheel side and the guard. This clearance shall not exceed one-sixteenth inch.

(2) Guard exposure angles. The maximum exposure angles specified in (3) through (8) of this section shall not be exceeded. Visors or other accessory equipment shall not be included as a part of the guard when measuring the guard opening, unless such equipment has strength equal to that of the guard.

(3) Bench and floor stands. The angular exposure of the grinding wheel periphery and sides for safety guards used on machines known as bench and floor stands should not exceed 90° or one-fourth of the periphery. This exposure shall begin at a point not more than 65° above the horizontal plane of the wheel spindle. (See Figures O-6 and O-7 and (9) of this section.)

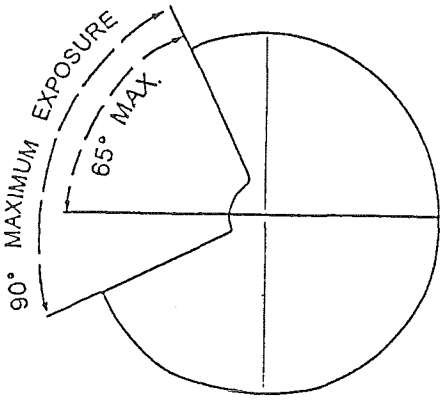


Figure No. O-6

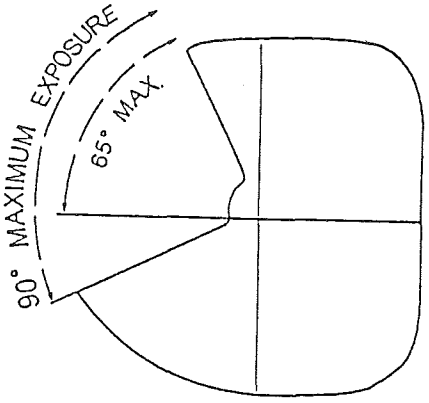


Figure No. O-7

Wherever the nature of the work requires contact with the wheel below the horizontal plane of the spindle, the exposure shall not exceed 125°. (See Figures O-8 and O-9.)

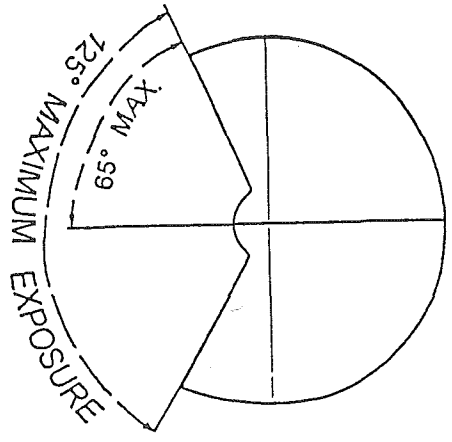


Figure No. O-8

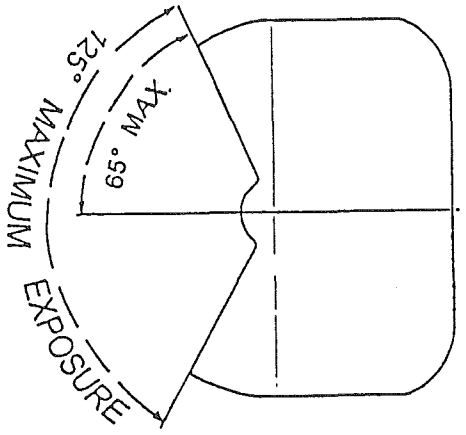


Figure No. O-9

(4) Cylindrical grinders. The maximum angular exposure of the grinding wheel periphery and sides for safety guards used on cylindrical grinding machines shall not exceed 180°. This exposure shall begin at a point not more than 65° above the horizontal plane of the wheel spindle. (See Figures O-10 and O-11 and (9) of this section.)

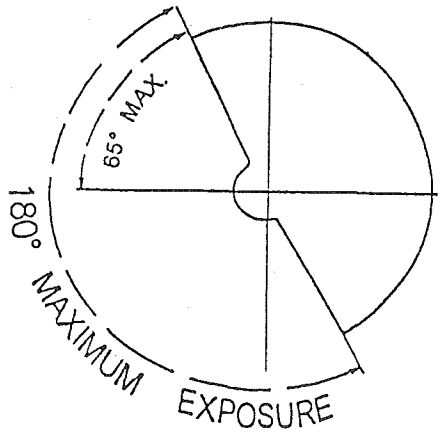


Figure No. O-10

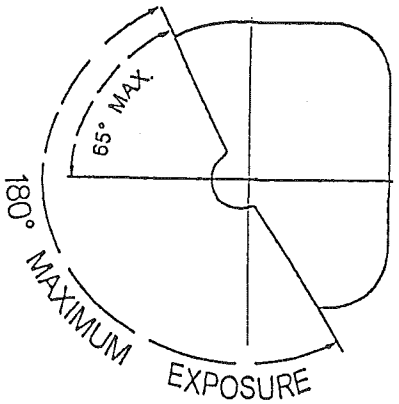


Figure No. O-11

(5) Surface grinders and cutting-off machines. The maximum angular exposure of the grinding wheels periphery and sides for safety guards used on cutting-off machines and on surface grinding machines which employ the wheel periphery shall not exceed 180°. This exposure shall begin at a point not less than 15° below the horizontal plane of the wheel spindle. (See Figures O-12 and O-13.)

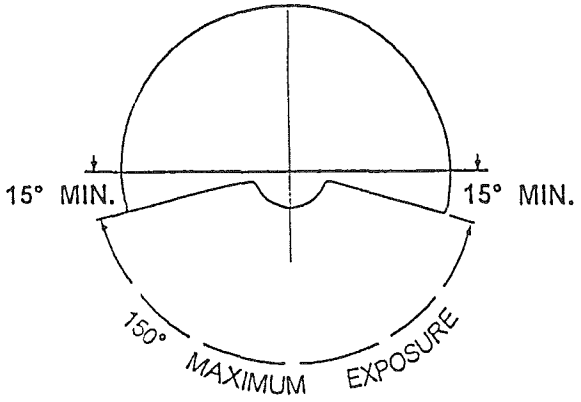


Figure No. O-12

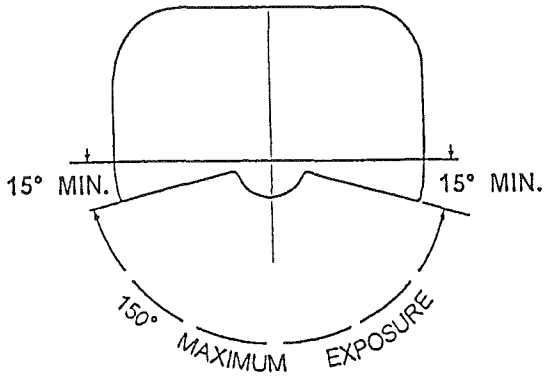


Figure No. O-13

(6) Swing frame grinders. The maximum angular exposure of the grinding wheel periphery and sides for safety guards used on machines known as swing frame grinding machines shall not exceed 180°, and the top half of the wheel shall be enclosed at all times. (See Figures O-14 and O-15.)

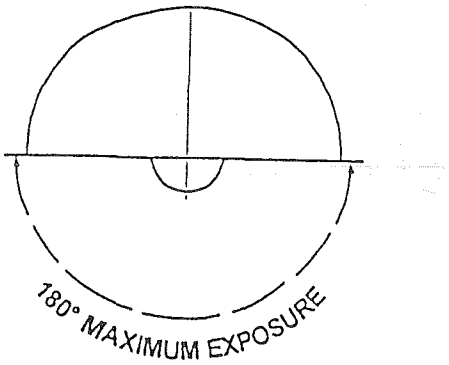


Figure No. O-14

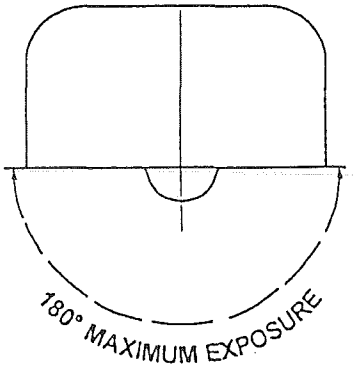


Figure No. O-15

(7) Automatic snagging machines. The maximum angular exposure of the grinding wheel periphery and sides for safety guards used on grinders known as automatic snagging machines shall not exceed 180° and the top half of the wheel shall be enclosed at all times. (See Figures O-14 and O-15.)

(8) Top grinding. Where the work is applied to the wheel above the horizontal centerline, the exposure of the grinding wheel periphery shall be as small as possible and shall not exceed 60°. (See Figures O-16 and O-17.)

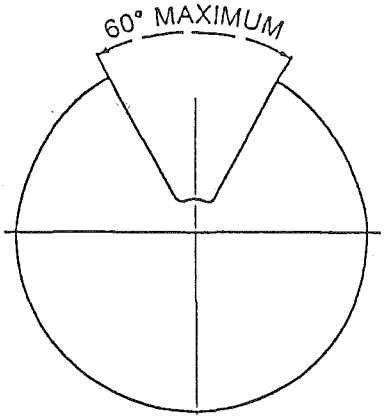


Figure No. O-16

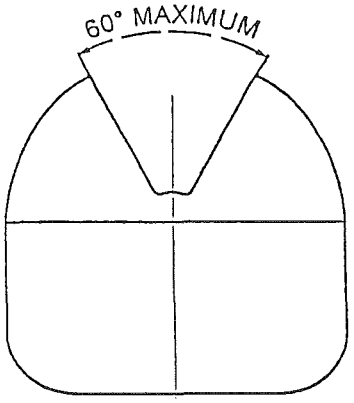


Figure No. O-17

(9) Exposure adjustment. Safety guards of the types described in (3) and (4) of this section, where the operator stands in front of the opening, shall be constructed so that the peripheral protecting member can be adjusted to the constantly decreasing diameter of the wheel. The maximum angular exposure above the horizontal plane of the wheel spindle as specified in (3) and (4) of this section shall never be exceeded, and the distance between the wheel periphery and the adjustable tongue or the end of the peripheral member at the top shall never exceed one-fourth inch. (See Figures O-18, O-19, O-20, O-21, O-22, and O-23.)

(10) Material requirements and minimum dimensions. (a) See Figures O-36 and O-37 and Table O-9 for minimum basic thickness of peripheral and side members for various types of safety guards and classes of service.

(b) If operating speed does not exceed 8,000 surface feet per minute cast iron safety guards, malleable iron guards or other guards as described in item (10)(c) of this subsection.

(c) Cast steel, or structural steel, safety guards as specified in Figures O-36 and O-37 and Table O-9 shall be used where operating speeds of wheels are faster than 8,000 surface feet per minute up to a maximum of 16,000 surface feet per minute.

(d) For cutting-off wheels 16 inches diameter and smaller and where speed does not exceed 16,000 surface feet per minute, cast iron or malleable iron safety guards as specified in Figures O-36 and O-37 and in Table O-9 shall be used.

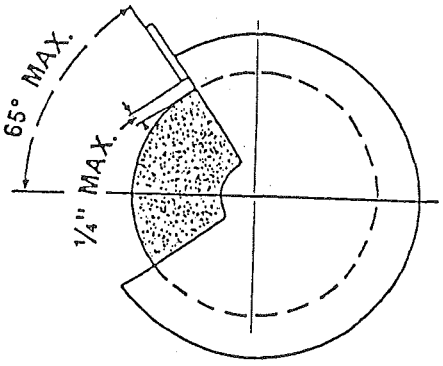


Figure No. O-18

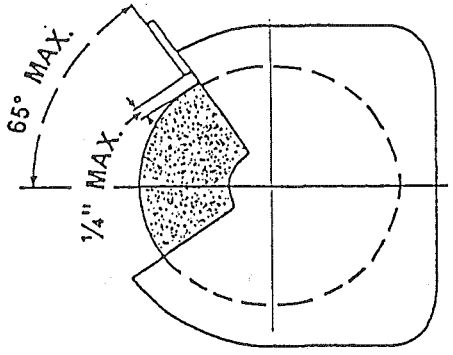


Figure No. O-19

CORRECT

Showing adjustable tongue giving required angular protection for all sizes of wheel used.

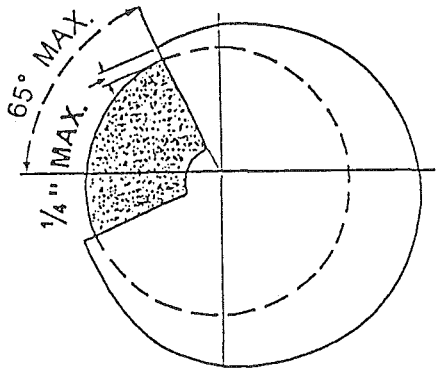


Figure No. O-20

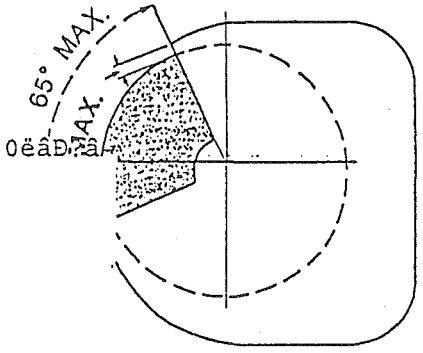


Figure No. O-21

CORRECT

Showing movable guard with opening small enough to give required protection for smallest size wheel used.

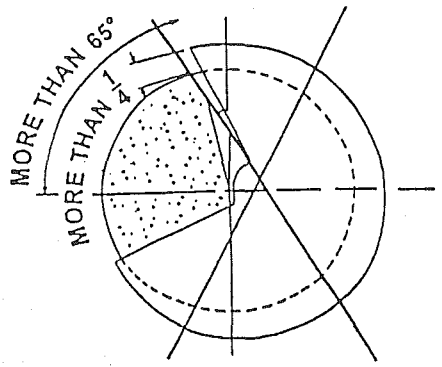


Figure No. O-22

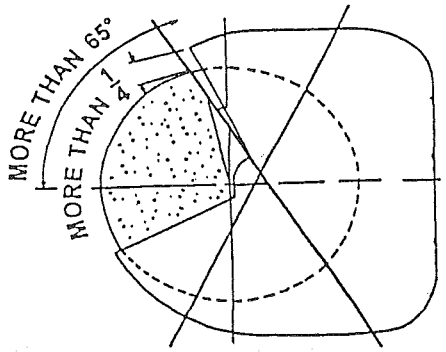


Figure No. O-23

INCORRECT

Showing movable guard with size of opening correct for full size wheel but too large for smaller wheels.

(e) For cutting-off wheels larger than 16 inches diameter and where speed does not exceed 14,200 surface feet per minute, safety guards as specified in Figures O-27 and O-28, and in Table O-1 shall be used.

(f) For thread grinding wheels not exceeding 1 inch in thickness cast iron or malleable iron safety guards as specified in Figures O-36 and O-37, and in Table O-9 shall be used.

(11) Band type guards—General specifications. Band type guards shall conform to the following general specifications:

(a) The bands shall be of steel plate or other material of equal or greater strength. They shall be continuous, the ends being either riveted, bolted, or welded together in such a manner as to leave the inside free from projections.

(b) The inside diameter of the band shall not be more than 1 inch larger than the outside diameter of the wheel, and shall be mounted as nearly concentric with the wheel as practicable.

(c) The band shall be of sufficient width and its position kept so adjusted that at no time will the wheel protrude beyond the edge of the band a distance greater than that indicated in Figure O-29 and in Table O-2 or the wall thickness (W), whichever is smaller.

(12) Guard design specifications. Abrasive wheel machinery guards shall meet the design specifications of the American National Standard Safety Code for the Use, Care, and Protection of Abrasive Wheels, ANSI B7.1-1970. This requirement shall not apply to natural sandstone wheels or metal, wooden, cloth, or paper discs, having a layer of abrasive on the surface.

[Statutory Authority: RCW 49.17.010, [49.17].040 and [49.17].050. 98-02-028, § 296-24-18005, filed 12/31/97, effective 1/31/98; Order 76-6, § 296-24-18005, filed 3/1/76; Order 73-5, § 296-24-18005, filed 5/9/73 and Order 73-4, § 296-24-18005, filed 5/7/73.]

WAC 296-24-18007 Flanges. (1) General requirements. All abrasive wheels shall be mounted between flanges which shall not be less than one-third the diameter of the wheel.

(a) Exceptions:

(i) Mounted wheels.

(ii) Portable wheels with threaded inserts or projecting studs.

(iii) Abrasive discs (inserted nut, inserted washer and projecting stud type).

(iv) Plate mounted wheels.

(v) Cylinders, cup, or segmental wheels that are mounted in chucks.

(vi) Types 27 and 28 wheels.

(vii) Certain internal wheels.

(viii) Modified types 6 and 11 wheels (terrazzo).

(ix) Cutting-off wheels, Types 1 and 27A (see (b) and (c) of this section).

(b) Type 1 cutting-off wheels are to be mounted between properly relieved flanges which have matching bearing surfaces. Such flanges shall be at least one-fourth the wheel diameter.

(c) Type 27A cutting-off wheels are designed to be mounted by means of flat, not relieved, flanges having matching bearing surfaces and which may be less than one-third but shall not be less than one-fourth the wheel diameter. (See Figure O-24 for one such type of mounting.)

(d) There are three general types of flanges:

(i) Straight relieved flanges (see Figure O-32);

(ii) Straight unrelieved flanges (see Figure O-30);

(iii) Adaptor flanges (see Figures O-33 and O-34).

(e) Regardless of flange type used, the wheel shall always be guarded. Blotters shall be used in accordance with (6) of this section.

(2) Design and material.

(a) Flanges shall be of such design as to satisfactorily transmit the driving torque from the spindle to the grinding wheel.

(b) Flanges may be made of steel, cast iron, or other material of equal or greater strength and rigidity.

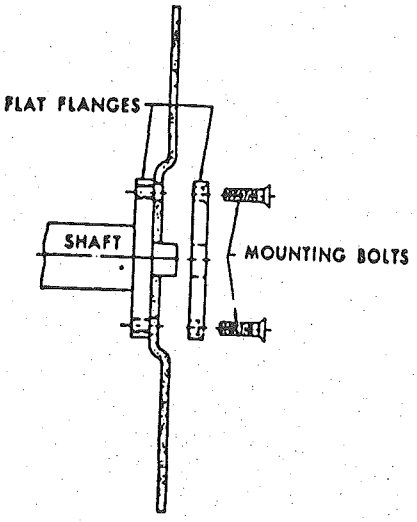


Figure No. O-24

The type 27A wheel is mounted between flat nonrelieved flanges of equal bearing surfaces.

(c) Flanges shall be designed with respect to rigidity so that when tightened, the radial width of bearing surface of contact on the wheel is maintained. (See Table O-6 and Figure O-32.)

(3) Finish and balance. Flanges shall be dimensionally accurate and in good balance. There shall be no rough surfaces or sharp edges.

(4) Uniformity of diameter.

(a) Both flanges, of any type, between which a wheel is mounted, shall be of the same diameter and have equal bearing surface. Exceptions are set forth in (4)(b) and (c).

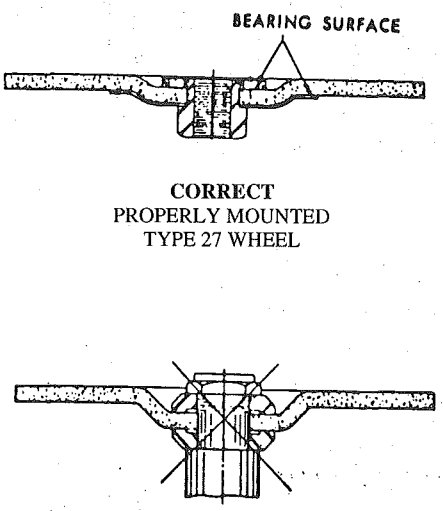
(b) Type 27 and Type 28 wheels, because of their shape and usage, require specially designed adaptors. The back flange shall extend beyond the central hub or raised portion and contact the wheel to counteract the side pressure on the wheel in use. The adaptor nut which is less than the minimum one-third diameter of wheel fits in the depressed side of wheel to prevent interference in side grinding and serves to drive the wheel by its clamping force against the depressed portion of the back flange. The variance in flange diameters, the adaptor nut being less than one-third wheel diameter, and the use of side pressure in wheel operation limit the use to reinforced organic bonded wheels. Mounts which are affixed to the wheel by the manufacturer shall not be reused. Type 27 and Type 28 wheels shall be used only with a safety guard located between wheel and operator during use. (See Figure O-24-A.)

(c) Modified Types 6 and 11 wheels (terrazzo) with tapered K dimension.

(5) Recess and undercut. (a) Straight relieved flanges made according to Table O-6 and Figure O-32 shall be recessed at least one-sixteenth inch on the side next to the wheel for a distance as specified in Table O-6.

(b) Straight flanges of the adaptor or sleeve type (Table O-7 and Figures O-33 and O-34) shall be undercut so that there will be no bearing on the sides of the wheel within one-eighth inch of the arbor hole.

Figure No. O-24-A



Types 27 and 28 wheels, because of their shape, require specially designed adaptors.

(6) Blotters.

(a) Blotters (compressible washers) shall always be used between flanges and abrasive wheel surfaces to insure uniform distribution of flange pressure. (See WAC 296-24-18009.)

(b) Exception:

(i) Mounted wheels.

(ii) Abrasive discs (inserted nut, inserted washer, and projecting stud type).

(iii) Plate mounted wheels.

(iv) Cylinders, cups, or segmental wheels that are mounted in chucks.

(v) Types 27 and 28 wheels.

(vi) Certain Type 1 and Type 27A cutting-off wheels.

(vii) Certain internal wheels.

(viii) Type 4 tapered wheels.

(ix) Diamond wheels, except certain vitrified diamond wheels.

(x) Modified types 6 and 11 wheel (terrazzo)—blotters applied flat side of wheel only.

(7) Driving flange. The driving flange shall be securely fastened to the spindle and the bearing surface shall run true. When more than one wheel is mounted between a single set of flanges, wheels may be cemented together or separated by specially designed spacers. Spacers shall be equal in faces. (See WAC 296-24-18009(6).)

(8) Dimensions.

(a) Tables O-4 and O-6 and Figures O-30 and O-32 show minimum dimensions for straight relieved and unrelieved flanges for use with wheels with small holes that fit directly on the machine spindle. Dimensions of such flanges shall never be less than indicated and should be greater where practicable.

(b) Table O-5, and Table O-7 and Figures O-31, O-33, O-34 show minimum dimensions for straight adaptor flanges for use with wheels having holes larger than the spindle. Dimensions of such adaptor flanges shall never be less than indicated and should be greater where practicable.

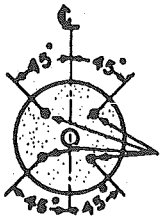
(c) Table O-8 and Figure O-35 show minimum dimensions for straight flanges that are an integral part of wheel sleeves which are frequently used on precision grinding machines. Dimensions of such flanges shall never be less than indicated and should be greater where practicable.

(9) Repairs and maintenance. All flanges shall be maintained in good condition. When the bearing surfaces become worn, warped, sprung, or damaged they should be trued or refaced. When refacing or truing, care shall be exercised to make sure that proper relief and rigidity is maintained as specified in (2) and (5) of this section and they shall be replaced when they do not conform to these requirements and Table O-4, Figure O-30, Table O-5, Figure O-31, Table O-6, Figure O-32, and Table O-35. Failure to observe these rules might cause excessive flange pressure around the hole of the wheel. This is especially true of wheel-sleeve or adaptor flanges.

[Order 73-5, § 296-24-18007, filed 5/9/73 and Order 73-4, § 296-24-18007, filed 5/7/73.]

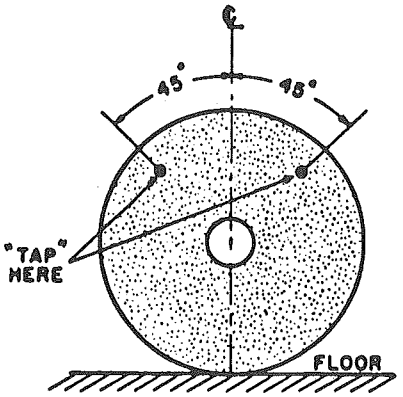
WAC 296-24-18009 Mounting. (1) Inspection. Immediately before mounting, all wheels shall be closely inspected and sounded by the user (ring test) to make sure they have not been damaged in transit, storage, or otherwise. The spindle speed of the machine shall be checked before mounting of the wheel to be certain that it does not exceed the maximum operating speed marked on the wheel. Wheels should be tapped gently with a light nonmetallic implement, such as the handle of a screwdriver for light wheels, or a wooden mallet for heavier wheels. If they sound cracked (dead), they shall not be used. This is known as the "ring test."

(a) Wheels must be dry and free from sawdust when applying the ring test, otherwise the sound will be deadened. It should also be noted that organic bonded wheels do not emit the same clear metallic ring as do vitrified and silicate wheels.



Light Wheels
Suspend from hole by
small pin or flanger

Figure No. O-25



Heavy Wheels
Support on clean hard floor

Figure No. O-26

(b) "Tap" wheels about 45° each side of the vertical centerline and about 1 or 2 inches from the periphery as indicated by the spots in Figure O-25 and Figure O-26. Then rotate the wheel 45° and repeat the test. A sound and undamaged wheel will give a clear metallic tone. If cracked, there will be a dead sound and not a clear "ring."

(2) Arbor size. Grinding wheels shall fit freely on the spindle and remain free under all grinding conditions. A controlled clearance between the wheel hole and the machine spindle (or wheel sleeves or adaptors) is essential to avoid excessive pressure from mounting and spindle expansion. To accomplish this, the machine spindle shall be made to nominal (standard) size plus zero minus .002 inch, and the wheel hole shall be made suitably oversize to assure safety clearance under the conditions of operating heat and pressure.

(3) Surface condition. All contact surfaces of wheels, blotters and flanges shall be flat and free of foreign matter.

(4) Bushing. When a bushing is used in the wheel hole it shall not exceed the width of the wheel and shall not contact the flanges.

(5) Blotters. When blotters or flange facings of compressible material are required, they shall cover entire contact area of wheel flanges. Highly compressible material such as blotting paper as normally used should not exceed .025 inch

in thickness. If material of lower compressibility is used, greater thickness may be necessary. Blotters need not be used with the following types of wheels:

(a) Mounted wheels.

(b) Abrasive discs (inserted nut, inserted washer, and projecting-stud type).

(c) Plate mounted wheels.

(d) Cylinders, cups, or segmental wheels that are mounted in chucks.

(e) Types 27 and 28 wheels.

(f) Certain Type 1 and Type 27A cutting-off wheels.

(g) Certain internal wheels.

(h) Type 4 tapered wheels.

(i) Diamond wheels, except certain vitrified diamond wheels.

(6) Multiple wheel mounting. When more than one wheel is mounted between a single set of flanges, wheels may be cemented together or separated by specially designed spacers. Spacers shall be equal in diameter to the mounting flanges and have equal bearing surfaces. When mounting wheels which have not been cemented together, or ones which do not utilize separating spacers, care must be exercised to use wheels specially manufactured for that purpose.

(7) Replacing safety guard. After mounting a wheel, care should be taken to see that the safety guard is properly positioned before starting the wheel.

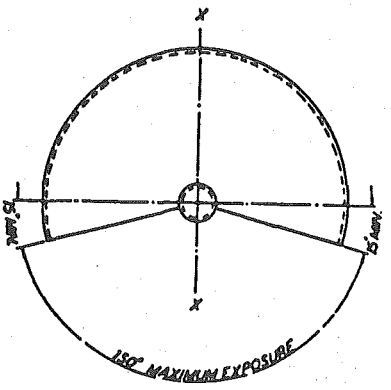
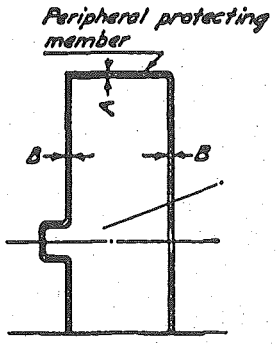


Figure No. O-27



Section X-X

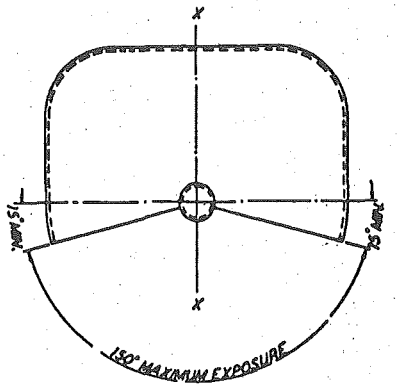


Figure No. O-28

TABLE O-1
MINIMUM BASIC THICKNESS FOR PERIPHERAL AND SIDE MEMBERS FOR SAFETY GUARDS USED WITH CUTTING-OFF WHEELS

(TABLE O-1: Part 1— 6" through 30")

Material used in construction of guard	Maximum thickness of cutting off wheel	Speed not to exceed	Cutting off wheel diameters					
			6 to 11 inches		Over 11 to 20 in.		Over 20 to 30 in.	
			A	B	A	B	A	B
Structural steel min. tensile strength 60,000 p.s.i.)	1/2 inch or less	14,200 SFPM	1/16	1/16	3/32	3/32	1/8	1/8
	1/2 inch or less	16,000 SFPM	3/32	1/8	1/8	1/8	3/16	1/8

(TABLE O-1:Part 2—Over 30" through 72")

Material used in construction of guard	Maximum thickness of cutting off wheel	Speed not to exceed	Cutting off wheel diameters			
			Over 30 to 48 in.		Over 48 to 72 in.	
			A	B	A	B
Structural steel min. tensile strength 60,000 p.s.i.)	1/2 inch or less	14,200 SFPM	3/16	3/16	1/4	1/4
	1/2 inch or less	16,000 SFPM	1/4	3/16	5/16	1/4

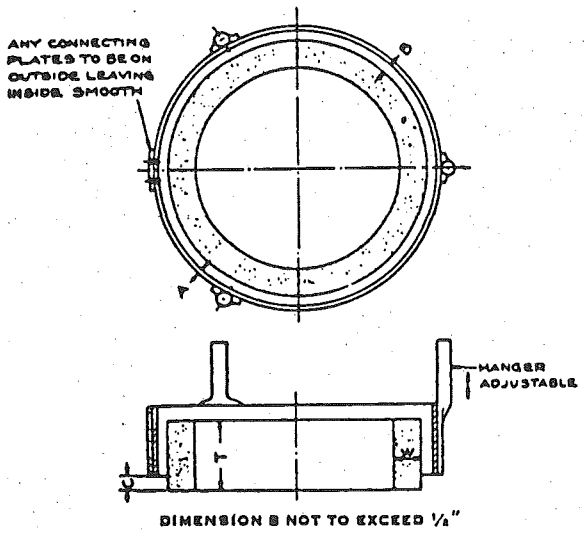


Figure No. O-29

TABLE O-2
EXPOSURE VERSUS WHEEL THICKNESS

Overall thickness of wheel (T) (inches)	Maximum exposure of wheel (C) (inches)
1/2	1/4
1	1/2
2	3/4
3	1
4	1 1/2
5 and over	2

TABLE O-3
GUIDE FOR CONSTRUCTION OF BAND TYPE
(Maximum Wheel Speed 7,000 SFPM)

Minimum material specifications	Diameter of wheel	Minimum thickness of band A	Minimum diameter of rivets	Maximum distance between centers of rivets
	Inches	Inches	Inches	Inches
Hot rolled steel SAE 1008	Under 8	1.16	3.16	3.4
	8 to 24	1.8	1.4	1
	Over 24 to 30	1.4	3.8	1 1/4

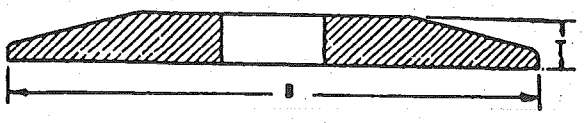


Figure No. O-30

Driving flange secured to spindle for use only on portable wheels with threaded inserts or projecting studs.

TABLE O-4
MINIMUM DIMENSIONS FOR STRAIGHT UNRELIEVED FLANGES FOR WHEELS WITH THREADED INSERTS OR PROJECTING STUDS

A	B[1]	T
Diameter of wheel	Minimum outside diameter of flange	Minimum thickness of flange
Inches	Inches	Inches
1	5/8	1/8
2	1	1/8
3	1	3/16
4	1 3/8	3/16
5	1 3/4	1/4
6	2	3/8

[1]Note: Must be large enough to extend beyond the bushing. Where prong anchor or cupback bushing are used, this footnote does not apply.

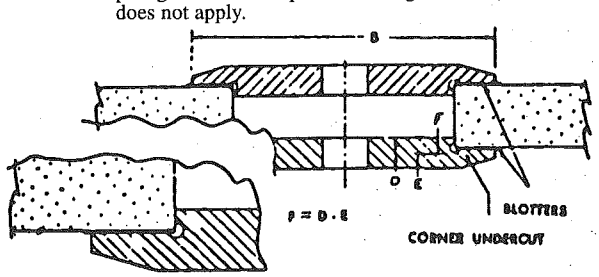


Figure No. O-31

TABLE O-5
MINIMUM DIMENSIONS FOR STRAIGHT ADAPTOR FLANGE FOR ORGANIC BONDED WHEELS OVER 1 1/4 INCHES THICK[1]

Wheel diameter	Wheel hole diameter	B Minimum flange diameter	D Minimum thickness of flange at bore	E Minimum thickness of flange at edge of undercut	F[1] (D-E) Minimum thickness
Inches	Inches	Inches	Inches	Inches	Inches
12 to 14	4	6	7/8	3/8	1/2
	5	7	7/8	3/8	1/2
	6	8	7/8	3/8	1/2
Larger than 14 to 18	4	6	7/8	3/8	1/2
	5	7	7/8	3/8	1/2
	6	8	7/8	3/8	1/2
	7	9	7/8	3/8	1/2
	8	10	7/8	3/8	1/2
Larger than 18 to 24	6	8	1	1/2	1/2
	7	9	1	1/2	1/2
	8	10	1	1/2	1/2
	10	12	1	1/2	1/2
	12	14	1	1/2	1/2
Larger than 24 to 30	12	15	1	1/2	1/2
Larger than 30 to 36	12	15	1 3/8	7/8	1/2

[1]For wheels under 1/4 inches thick F dimension shall not exceed 40 percent of wheel thickness.

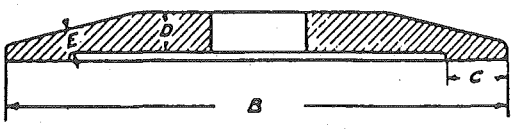


Figure No. O-32
Driving flange secured to spindle.

TABLE O-6
MINIMUM DIMENSIONS FOR STRAIGHT RELIEVED FLANGES

A[1]	B	C		D	E
		Radial width of bearing surface			
Diameter of wheel	Minimum outside diameter of flanges	Minimum	Maximum	Minimum thickness of flange at bore	Minimum thickness of flange at edge of recess
Inches	Inches	Inches	Inches	Inches	Inches
1	3/6	1/16	1/8	1/16	1/16
2	3/4	1/8	3/16	1/8	3/32
3	1	1/8	3/16	3/16	3/32
4	1 3/8	1/8	3/16	3/16	1/8
5	1 3/4	3/16	1/4	1/4	1/8
6	2	1/4	1/2	3/8	3/16
7	2 1/2	1/4	1/2	3/8	3/16
8	3	1/4	1/2	3/8	3/16
10	3 1/2	5/16	5/8	3/8	1/4
12	4	5/16	5/8	1/2	5/16
14	4 1/2	3/8	3/4	1/2	5/16
16	5 1/2	1/2	1	1/2	5/16
18	6	1/2	1	5/8	3/8
20	7	5/8	1 1/4	5/8	3/8
22	7 1/2	5/8	1 1/4	5/8	7/16
24	8	3/4	1 1/4	5/8	7/16
26	8 1/2	3/4	1 1/4	5/8	1/2
28	10	7/8	1 1/2	3/4	1/2
30	10	7/8	1 1/2	3/4	5/8
36	12	1	2	7/8	3/4
42	14	1	2	7/8	3/4
48	16	1 1/4	2	1 1/8	1
60	20	1 1/4	2	1 1/4	1 1/8
72	24	1 1/2	2 1/2	1 3/8	1 1/4

[1]Flanges for wheels under 2 inches diameter may be unrelieved and shall be maintained flat and true.

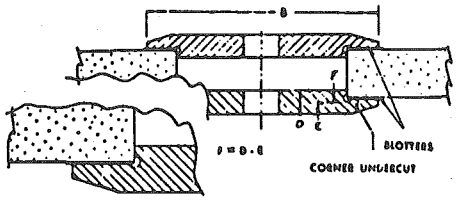


Figure No. O-33
Central Nut Mounting
Driving flange secured to spindle.

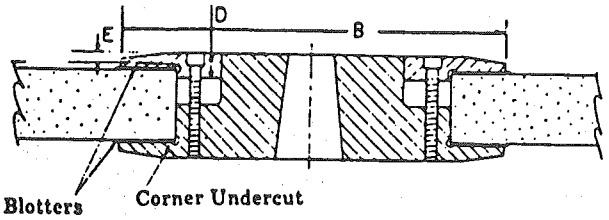


Figure No. O-34
Multiple Screw Mounting
Driving flange secured to spindle.

TABLE O-7
MINIMUM DIMENSIONS FOR STRAIGHT FLANGES FOR MECHANICAL GRINDERS 12,500 S.F.P.M. TO 16,500 S.F.P.M.[1]

Wheel diameter	Wheel hole diameter	B Minimum flange diameter	D Minimum thickness of flange at bore	E Minimum thickness of flange at edge of undercut	F[2](D-E) minimum thickness
20	6	8	1	1/2	1/2
20	8	10	1 1/2	3/4	3/4
24	12	15	2	1	1
30	12	15	2	1	1
36	12	15	2	1	1

[1] Flange shall be of steel, quality SAE 1040 or equivalent, annealed plate, heat treated to R_c 25-30.

[2] For wheels under 1 1/4 inch thick F dimension shall not exceed 40 percent of wheel thickness.

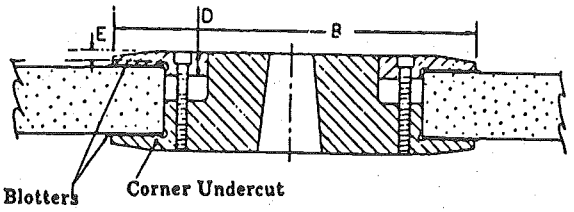


Figure No. O-35
Driving flange secured to spindle.

TABLE O-8
MINIMUM DIMENSIONS FOR STRAIGHT FLANGES USED AS WHEEL SLEEVES FOR PRECISION GRINDING ONLY

Wheel diameter	Wheel hole diameter	B Minimum outside diameter of flange	D Minimum thickness of flange at bore	E Minimum thickness of flange at edge of undercut
Inches	Inches	Inches	Inches	Inches
12 to 14	5	7	1/2	7/16
	5	7	5/8	7/16
	6	8	5/8	7/16
Larger than	8	10	5/8	7/16
14 to 20	10	11 1/2	5/8	7/16
	12	13 1/2	5/8	7/16
Larger than	8	10	3/4	1/2
20 to 30	10	11 1/2	3/4	1/2
	12	13 1/2	3/4	1/2
	16	17 1/2	3/4	1/2
Larger than	12	13 1/2	3/4	1/2
30 to 42	16	17 1/2	3/4	1/2
	18	19 1/2	3/4	1/2
	20	21 1/2	3/4	1/2
Larger than	16	20	1	3/4
42 to 60	20	24	1	3/4
	24	29	1 1/8	7/8

Note: These flanges may be clamped together by means of a central nut, or by a series of bolts or some other equivalent means of fastening. For hole sizes smaller than shown in this table, use table 12.

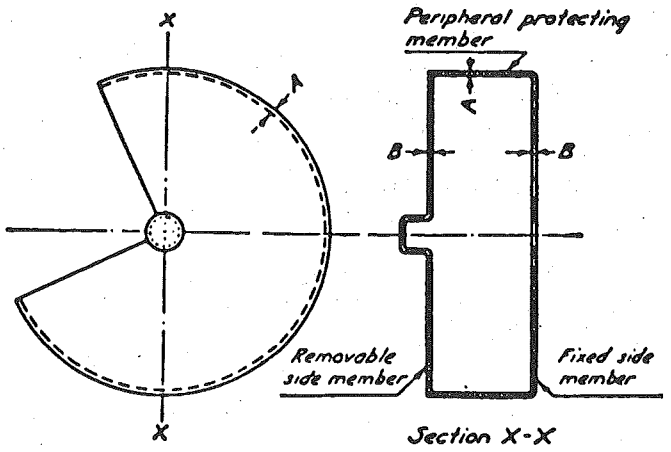


Figure No. O-36

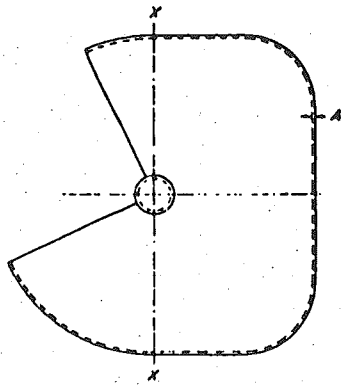


Figure No. O-37

TABLE O-9
MINIMUM BASIC THICKNESSES OF PERIPHERAL AND SIDE MEMBERS FOR SAFETY GUARDS

(TABLE O-9: Part 1—Diameters 3" to 12")

Material used in construction of guard	Maximum thickness of grinding wheel	Grinding wheel diameters: 3 to 6 inches A	3 to 6 inches B	Over 6 to 12 inches A	Over 6 to 12 inches B
	Inches	Inches		Inches	
Material satisfactory[1] for speeds up to 8,000 SFPM. Cast iron (min. tensile strength 20,000 p.s.i.) Class 20.	2	1/4	1/4	3/8	5/16
	4	5/16	5/16	3/8	5/16
	6	3/8	5/16	1/2	7/16
	8			5/8	9/16
	10			3/4	11/16
	16				
	20				
Material satisfactory[1] for speeds up to 9,000 SFPM. Malleable iron (min. tensile strength 50,000 p.s.i.) Grade 32510.	2	1/4	1/4	3/8	5/16
	4	5/16	5/16	3/8	5/16
	6	3/8	5/16	1/2	7/16
	8			1/2	7/16
	10			1/2	7/16
	16				
	20				
Materials satisfactory[1] for speeds up to 16,000 SFPM. Steel castings (min. tensile strength 60,000 p.s.i.) Grade V60-30.	2	1/4	1/4	5/16	5/16
	4	1/4	1/4	1/2	1/2
	6	3/8	1/4	3/4	5/8
	8			7/8	3/4
	10			1	7/8
	16				
	20				
Structural steel (min. tensile strength 60,000 p.s.i.).	2	1/8	1/16	5/16	1/4
	4	1/8	1/16	3/8	5/16
	6	3/16	1/16	1/2	3/8
	8			1/2	3/8
	10			9/16	7/16
	16				
	20				

[1]The recommendations listed in the above table are guides for the conditions stated. Other material, designs or dimensions affording equal or superior protection are also acceptable.

(TABLE O-9: Part 2—Diameters Over 12" to 20")

Material used in construction of guard	Maximum thickness of grinding wheel	Grinding wheel diameters: Over 12 to 16 inches A	Over 12 to 16 inches B	Over 16 to 20 inches A	Over 16 to 20 inches B
	Inches	Inches		Inches	
Material satisfactory[1] for speeds up to 8,000 SFPM. Cast iron (min. tensile strength 20,000 p.s.i.) Class 20.	2	1/2	3/8	5/8	1/2
	4	1/2	3/8	3/4	5/8
	6	5/8	1/2	1	5/8
	8	7/8	3/4	1	3/4
	10	7/8	3/4	1	3/4
	16	1-1/8	1	1-1/4	1
	20			1-3/8	1-1/8
Material satisfactory[1] for speeds up to 9,000 SFPM. Malleable iron (min. tensile strength 50,000 p.s.i.) Grade 32510.	2	1/2	3/8	5/8	1/2
	4	1/2	3/8	5/8	1/2
	6	5/8	1/2	3/4	5/8
	8	5/8	1/2	3/4	5/8
	10	5/8	1/2	3/4	5/8
	16	13/16	11/16	13/16	11/16
	20			7/8	3/4
Materials satisfactory[1] for speeds up to 16,000 SFPM. Steel castings (min. tensile strength 60,000 p.s.i.) Grade V60-30.	2	3/8	3/8	1/2	7/16
	4	1/2	1/2	9/16	1/2
	6	3/4	5/8	3/4	5/8
	8	7/8	3/4	7/8	3/4
	10	1	7/8	1	7/8
	16	1-1/4	1-1/8	1-1/4	1-1/8
	20			1-3/8	1-1/4
Structural	2	5/16	1/4	5/16	1/4

Material used in construction of guard	Maximum thickness of grinding wheel	Grinding wheel diameters: Over 12 to 16 inches A	Over 12 to 16 inches B	Over 16 to 20 inches A	Over 16 to 20 inches B
	Inches	Inches		Inches	
steel (min. tensile strength 60,000 p.s.i.).	4	3/8	5/16	3/8	5/16
	6	7/16	3/8	7/16	3/8
	8	9/16	7/16	9/16	7/16
	10	5/8	1/2	5/8	1/2
	16	5/8	9/16	3/4	5/8
	20			13/16	11/16

[1]The recommendations listed in the above table are guides for the conditions stated. Other material, designs or dimensions affording equal or superior protection are also acceptable.

(TABLE O-9: Part 3—Diameters Over 20" to 40")

Material used in construction of guard	Maximum thickness of grinding wheel	Grinding wheel diameters: Over 20 to 24 inches A	Over 20 to 24 inches B	Over 24 to 40 inches A	Over 24 to 40 inches B
	Inches	Inches		Inches	
Material satisfactory[1] for speeds up to 8,000 SFPM. Cast iron (min. tensile strength 20,000 p.s.i.) Class 20.	2	7/8	5/8	1	3/4
	4	1	5/8	1-1/8	3/4
	6	1-1/8	3/4	1-1/4	7/8
	8	1-1/8	3/4	1-1/4	7/8
	10	1-1/8	3/4	1-1/4	7/8
	16	1-5/16	1	1-7/16	1-1/16
	20	1-3/8	1-1/8	1-1/2	1-3/8
Material satisfactory[1] for speeds up to 9,000 SFPM. Malleable iron (min. tensile strength 50,000 p.s.i.) Grade 32510.	2	3/4	5/8	7/8	3/4
	4	3/4	5/8	7/8	3/4
	6	7/8	5/8	1	3/4
	8	7/8	5/8	1	3/4
	10	7/8	5/8	1	3/4
	16	1	3/4	1-1/8	7/8
	20	1	3/4	1-1/8	7/8
Materials satisfactory[1] for speeds up to 16,000 SFPM. Steel castings (min. tensile strength 60,000 p.s.i.) Grade V60-30.	2	5/8	1/2	3/4	5/8
	4	5/8	1/2	3/4	5/8
	6	13/16	11/16	13/16	11/16
	8	7/8	3/4	15/16	13/16
	10	1-1/8	15/16	1-1/8	1
	16	1-1/4	1-1/8	1-1/4	1-1/8
	20	1-3/8	1-1/4	1-17/16	1-5/16
Structural steel (min. tensile strength 60,000 p.s.i.).	2	5/16	1/4	3/8	5/16
	4	3/8	5/16	3/8	5/16
	6	7/16	3/8	7/16	3/8
	8	9/16	7/16	5/8	1/2
	10	5/8	1/2	5/8	1/2
	16	3/4	5/8	13/16	11/16
	20	13/16	11/16	7/8	3/4

[1]The recommendations listed in the above table are guides for the conditions stated. Other material, designs or dimensions affording equal or superior protection are also acceptable.

(TABLE O-9: Part 4—Diameters Over 40" to 48")

Material used in construction of guard	Maximum thickness of grinding wheel	Grinding wheel diameters: Over 40 to 48 inches A	Over 40 to 48 inches B
	Inches	Inches	
Material satisfactory[1] for speeds up to 8,000 SFPM. Cast iron (min. tensile strength 20,000 p.s.i.) Class 20.	2	1-1/4	1
	4	1-3/8	1
	6	1-1/2	1-1/8
	8	1-1/2	1-1/8
	10	1-1/2	1-1/8
	16	1-3/4	1-3/8
	20	2	1-5/8
Material satisfactory[1] for speeds up to 9,000 SFPM. Malleable iron (min. tensile strength 50,000 p.s.i.) Grade 32510.	2	1	7/8
	4	1-1/8	7/8
	6	1-1/4	7/8
	8	1-1/4	7/8
	10	1-1/4	7/8
	16	1-3/8	1
	20	1-1/2	1-1/8
Materials satisfactory[1] for speeds up to 16,000 SFPM. Steel castings (min. tensile strength 60,000 p.s.i.) Grade V60-30.	2	7/8	3/4
	4	1	3/4
	6	1- 1/8	3/4
	8	1- 3/8	1
	10	1- 7/16	1- 1/16
	16	1- 3/16	1- 7/16
	20	2- 1/16	1-11/16
Structural steel (min. tensile strength 60,000 p.s.i.).	2	1/2	3/8
	4	1/2	3/8
	6	3/4	1/2
	8	3/4	1/2
	10	3/4	5/8
	16	1-1/16	13/16
	20	1-3/16	15/16

[1]The recommendations listed in the above table are guides for the conditions stated. Other material, designs or dimensions affording equal or superior protection are also acceptable.

[Order 73-5, § 296-24-18009, filed 5/9/73 and Order 73-4, § 296-24-18009, filed 5/7/73.]

WAC 296-24-190 Mills and calenders in the rubber and plastics industries.

[Order 73-5, § 296-24-190, filed 5/9/73 and Order 73-4, § 296-24-190, filed 5/7/73.]

WAC 296-24-19001 Definitions. (1) "Bite" means the nip point between any two inrunning rolls.

(2) "Calender" means a machine equipped with two or more metal rolls revolving in opposite directions and used for continuously sheeting or plying up rubber and plastics compounds and for frictioning or coating materials with rubber and plastics compounds.

(3) "Mill" means a machine consisting of two adjacent metal rolls, set horizontally, which revolve in opposite directions (i.e. toward each other as viewed from above) used for the mechanical working of rubber and plastics compounds.

[Order 73-5, § 296-24-19001, filed 5/9/73 and Order 73-4, § 296-24-19001, filed 5/7/73.]

WAC 296-24-19003 General requirements. (1) New installations. All new installations after August 27, 1971, shall be in conformity with WAC 296-24-190 through 296-24-19015.

(2) Existing installations. All existing plant installations or equipment contracted for prior to the effective date of these standards, shall comply with WAC 296-24-190 through 296-24-19015.

(3) Auxiliary equipment. Mechanical and electrical equipment and auxiliaries shall be installed according to with this section and the state of Washington safety standards for installing electric wires and equipment, chapter 296-24 WAC Part L.

(4) Mill roll heights. All new mill installations shall be installed so that the top of the operating rolls is not less than 50 inches above the level on which the operator stands, irrespective of the size of the mill. This distance shall apply to the actual working level, whether it be at the general floor level, in a pit, or on a platform.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-19003, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-19003, filed 4/19/85; Order 76-6, § 296-24-19003, filed 3/1/76; Order 73-5, § 296-24-19003, filed 5/9/73 and Order 73-4, § 296-24-19003, filed 5/7/73.]

WAC 296-24-19005 Mill safety controls. (1) Safety trip control. A safety trip control shall be provided in front and in back of each mill. It shall be accessible and shall operate readily on contact. The safety trip control shall be one of the following types or a combination thereof.

(a) Pressure-sensitive body bars. Installed at front and back of each mill having a 46-inch roll height or over. These bars shall operate readily by pressure of the mill operator's body. Pressure-sensitive body bars should be installed on new equipment.

(b) Safety triprod. Installed in the front and in the back of each mill and located with 2 inches of a vertical plane tangent to the front and rear rolls. The top rods shall be not more than 72 inches above the level on which the operator stands. The triprods shall be accessible and shall operate readily whether the rods are pushed or pulled.

(c) Safety tripwire cable or wire center cord. Installed in the front and in the back of each mill and located within 2 inches of a vertical plane tangent to the front and rear rolls. The cables shall not be more than 72 inches above the level on which the operator stands. The tripwire cable or wire center cord shall operate readily whether cable or cord is pushed or pulled.

(2) Fixed guards. A fixed bar across the front and one across the back of the mill approximately 40 inches vertically above the working level and 20 inches horizontally from the crown face of the roll should be used where they are applicable.

(3) Auxiliary equipment. All auxiliary equipment such as mill divider, support bars, spray pipes, feed conveyors, strip knives, etc., shall be located in such a manner as to avoid interference with access to and operation of safety devices.

[Order 73-5, § 296-24-19005, filed 5/9/73 and Order 73-4, § 296-24-19005, filed 5/7/73.]

WAC 296-24-19007 Calender safety controls. (1) Safety trip, face. A-safety triprod, cable, or wire center cord shall be provided across each pair of in-running rolls extending the length of the face of the rolls. It shall be readily accessible and operate whether pushed or pulled. The safety tripping devices shall be located within reach of the operator and the bite.

(2) Safety trip, side. On both sides of the calender and near each end of the face of the roll, there shall be a cable or wire center cord connected to the safety trip. These lines should be not more than 12 inches from the faces of the respective rolls and not less than 2 inches from the calender frame. They should be anchored to the frame not more than 6 inches from the floor or operator's platform. They shall operate readily when pushed or pulled.

[Order 73-5, § 296-24-19007, filed 5/9/73 and Order 73-4, § 296-24-19007, filed 5/7/73.]

WAC 296-24-19009 Protection by location. (1) Mills. Where a mill is so installed that persons cannot normally reach through, over, under or around to come in contact with the roll bite or be caught between a roll and an adjacent object, then, provided such elements are made a fixed part of a mill, safety control devices listed in WAC 296-24-19005 shall not apply.

(2) Calenders. Where a calender is so installed that persons cannot normally reach through, over, under, or around to come in contact with the roll bite or be caught between a roll and an adjacent object, then, provided such elements are made a fixed part of a calender, safety control devices listed in WAC 296-24-19007 shall not apply.

[Order 73-5, § 296-24-19009, filed 5/9/73 and Order 73-4, § 296-24-19009, filed 5/7/73.]

WAC 296-24-19011 Trip and emergency switches. All trip and emergency switches shall not be of the automatically resetting type, but shall require manual resetting.

[Order 73-5, § 296-24-19011, filed 5/9/73 and Order 73-4, § 296-24-19011, filed 5/7/73.]

WAC 296-24-19013 Stopping limits. (1) Determination of distance of travel. All measurements on mills and calenders shall be taken with the rolls running empty at maximum operating speed. Stopping distances shall be expressed in inches of surface travel of the roll from the instant the emergency stopping device is actuated.

(2) Stopping limits for mills. All mills irrespective of the size of the rolls or their arrangement (individually or group-driven) shall be stopped within a distance, as measured in inches of surface travel, not greater than 1 1/2 percent of the peripheral no-load surface speeds of the respective rolls as determined in feet per minute.

(3) Stopping limits for calenders.

(a) All calenders, irrespective of size of the rolls or their configuration, shall be stopped within a distance, as measured in inches of surface travel, not greater than 1 3/4 per-

cent of the peripheral no-load surface speeds of the respective calender rolls as determined in feet per minute.

(b) Where speeds above 250 feet per minute as measured on the surface of the drive roll are used, stopping distances of more than 1 3/4 percent are permissible. Such stopping distances shall be subject to engineering determination.

[Order 73-5, § 296-24-19013, filed 5/9/73 and Order 73-4, § 296-24-19013, filed 5/7/73.]

WAC 296-24-19015 Alarm. Where an exposure is created by the operation, and the operators are not within sight or hearing of other employees, a suitable alarm device should be provided so that assistance will be available in case of accidents.

[Order 73-5, § 296-24-19015, filed 5/9/73 and Order 73-4, § 296-24-19015, filed 5/7/73.]

WAC 296-24-195 Mechanical power presses. (1) Mechanical powered machines that shear, punch, form, or assemble metal or material by means of tools or dies attached to slides, and are identified by their respective manufacturers as "mechanical power presses" are regulated by sections which include WAC 296-24-195 in the subsection number.

(2) Combination, multipurpose powered machines, commonly referred to as "iron workers, " that punch, shear, notch, cope, and form metals or other materials, single-end punches, double-end punches, structured shearing machines, notching machines, coping machines, beam punches, detail punches, and spacing punches, machines similar in construction and function to mechanical power presses, but which are specifically identified by the respective manufacturers as "iron workers, " and machines whose distinguishing feature is the multiple work stations at which various operations may be performed singly or simultaneously, including, but not limited to, punching, shearing, notching, coping, and forming shall be regulated by subsections which include WAC 296-24-150 in the subsection number.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-195, filed 5/15/89, effective 6/30/89; Order 76-6, § 296-24-195, filed 3/1/76; Order 73-5, § 296-24-195, filed 5/9/73 and Order 73-4, § 296-24-195, filed 5/7/73.]

WAC 296-24-19501 Definitions. "Adjustable barrier guard" means a barrier requiring adjustment for each job or die setup.

"Antirepeat" means the part of the clutch/brake control system designed to limit the press to a single stroke if the tripping means is held operated. Antirepeat requires release of all tripping mechanisms before another stroke can be initiated. "Antirepeat" is also called single stroke reset or reset circuit.

"Authorized person" means one to whom the authority and responsibility to perform a specific assignment has been given by the employer.

"Automatic feeding" means feeding wherein the material or part being processed is placed within or removed from the point of operation by a method or means not requiring action by an operator on each stroke of the press.

"Bolster plate" means the plate attached to the top of the bed of the press having drilled holes or T-slots for attaching the lower die or die shoe.

"Brake" means the mechanism used on a mechanical power press to stop and/or hold the crankshaft, either directly or through a gear train, when the clutch is disengaged.

"Brake monitor" means a sensor designed, constructed, and arranged to monitor the effectiveness of the press braking system.

"Certification" or **"certify"** means, in the case of design certification/validation, that the manufacturer has reviewed and tested the design and manufacture, and in the case of installation certification/validation and annual recertification/revalidation, that the employer has reviewed and tested the installation, and concludes in both cases that the requirements of WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700 have been met. The certifications are made to the validation organization.

"Certification/validation" and **"certify/validate"** means the combined process of certification and validation.

"Clutch" means the coupling mechanism used on a mechanical power press to couple the flywheel to the crankshaft, either directly or through a gear train.

"Concurrent" means acting in conjunction, and is used to describe a situation wherein two or more controls exist in an operated condition at the same time.

"Continuous" means uninterrupted multiple strokes of the slide without intervening stops (or other clutch control action) at the end of individual strokes.

"Control system" means sensors, manual input and mode selection elements, interlocking and decision-making circuitry, and output elements to the press operating mechanism.

"Counterbalance" means the mechanism that is used to balance or support the weight of the connecting rods, slide, and slide attachments.

"Device" means a press control or attachment that:

- Restrains the operator from inadvertently reaching into the point of operation; or
- Prevents normal press operation if the operator's hands are inadvertently within the point of operation; or
- Automatically withdraws the operator's hands if the operator's hands are inadvertently within the point of operation as the dies close; or
- Prevents the initiation of a stroke, or stops the stroke in progress, when there is an intrusion through the sensing field by any part of the operator's body or by any other object.

"Die" means the tooling used in a press for cutting or forming material. An upper and a lower die make a complete set.

"Die builder" means any person who builds dies for power presses.

"Die enclosure guard" means an enclosure attached to the die shoe or stripper, or both, in a fixed position.

"Die set" means a tool holder held in alignment by guide posts and bushings and consisting of a lower shoe, an upper shoe or punch holder, and guide posts and bushings.

"Die setter" means an individual who places or removes dies in or from mechanical power presses, and who, as a part of their duties, makes the necessary adjustments to cause the tooling to function properly and safely.

"Die setting" means the process of placing or removing dies in or from a mechanical power press, and the process of

adjusting the dies, other tooling and safeguarding means to cause them to function properly and safely.

"Die shoe" means a plate or block upon which a die holder is mounted. A die shoe functions primarily as a base for the complete die assembly, and, when used, is bolted or clamped to the bolster plate or the face of slide.

"Direct drive" means the type of driving arrangement wherein no clutch is used; coupling and decoupling of the driving torque is accomplished by energization and deenergization of a motor. Even though not employing a clutch, direct drives match the operational characteristics of "part revolution clutches" because the driving power may be disengaged during the stroke of the press.

"Ejector" means a mechanism for removing work or material from between the dies.

"Face of slide" means the bottom surface of the slide to which the punch or upper die is generally attached.

"Feeding" means the process of placing or removing material within or from the point of operation.

"Fixed barrier guard" means a die space barrier attached to the press frame.

"Foot control" means the foot operated control mechanism designed to be used with a clutch or clutch/brake control system.

"Foot pedal" means the foot operated lever designed to operate the mechanical linkage that trips a full revolution clutch.

"Full revolution clutch" means a type of clutch that, when tripped, cannot be disengaged until the crankshaft has completed a full revolution and the press slide a full stroke.

"Gate or movable barrier device" means a movable barrier arranged to enclose the point of operation before the press stroke can be started.

"Guard" means a barrier that prevents entry of the operator's hands or fingers into the point of operation.

"Guide post" means the pin attached to the upper or lower die shoe, operating within the bushing on the opposing die shoe, to maintain the alignment of the upper and lower dies.

"Hand feeding tool" means any hand held tool designed for placing or removing material or parts to be processed within or from the point of operation.

"Holdout or restraint device" means a mechanism, including attachments for operator's hands, that when anchored and adjusted prevent the operator's hands from entering the point of operation.

"Inch" means an intermittent motion imparted to the slide (on machines using part revolution clutches) by momentary operation of the "inch" operating means. Operation of the "inch" operating means engages the driving clutch so that a small portion of one stroke or indefinite stroking can occur, depending upon the length of time the "inch" operating means is held operated. "Inch" is a function used by the die setter for setup of dies and tooling, but is not intended for use during production operations by the operator.

"Interlocked press barrier guard" means a barrier attached to the press frame and interlocked so that the press stroke cannot be started normally unless the guard itself, or its hinged or movable sections, enclose the point of operation.

"Jog" means an intermittent motion imparted to the slide by momentary operation of the drive motor, after the clutch is engaged with the flywheel at rest.

"Knockout" means a mechanism for releasing material from either die.

"Liftout" means the mechanism also known as knockout.

"Manual feeding" means feeding wherein the material or part being processed is handled by the operator on each stroke of the press.

"Operator's station" means the complete complement of controls used by or available to an operator on a given operation for stroking the press.

"Part revolution clutch" means a type of clutch that can be disengaged at any point before the crankshaft has completed a full revolution and the press slide a full stroke.

"Pinch point" means any point other than the point of operation at which it is possible for a part of the body to be caught between the moving parts of a press or auxiliary equipment, or between moving and stationary parts of a press or auxiliary equipment or between the material and moving part or parts of the press or auxiliary equipment.

"Point of operation" means the area of the press where material is actually positioned and work is being performed during any process such as shearing, punching, forming, or assembling.

"Presence sensing device" means a device designed, constructed and arranged to create a sensing field or area that signals the clutch/brake control to deactivate the clutch and activate the brake of the press when any part of the operator's body or a hand tool is within such field or area.

"Presence sensing device initiation" means an operating mode of indirect manual initiation of a single stroke by a presence sensing device when it senses that work motions of the operator, related to feeding and/or removing parts, are completed and all parts of the operator's body or hand tools are safely clear of the point of operation.

"Press" means a mechanically powered machine that shears, punches, forms or assembles metal or other material by means of cutting, shaping, or combination dies attached to slides. A press consists of a stationary bed or anvil, and a slide (or slides) having a controlled reciprocating motion toward and away from the bed surface, the slide being guided in a definite path by the frame of the press.

"Pull-out device" means a mechanism attached to the operator's hands and connected to the upper die or slide of the press, that is designed, when properly adjusted, to withdraw the operator's hands as the dies close, if the operator's hands are inadvertently within the point of operation.

"Repeat" means an unintended or unexpected successive stroke of the press resulting from a malfunction.

"Safety block" means a prop that, when inserted between the upper and lower dies or between the bolster plate and the face of the slide, prevents the slide from falling of its own deadweight.

"Safety system" means the integrated total system, including the pertinent elements of the press, the controls, the safeguarding and any required supplemental safeguarding, and their interfaces with the operator, and the environment, designed, constructed, and arranged to operate together as a

unit, such that a single failure or single operating error will not cause injury to personnel due to point of operation hazards.

"Semiautomatic feeding" means feeding wherein the material or part being processed is placed within or removed from the point of operation by an auxiliary means controlled by operator on each stroke of the press.

"Single stroke" means one complete stroke of the slide, usually initiated from a full open (or up) position, followed by closing, (or down), and then a return to the full open position.

"Single stroke mechanism" means an arrangement used on a full revolution clutch to limit the travel of the slide to one complete stroke at each engagement of the clutch.

"Slide" means the main reciprocating press member. A slide is also called a ram, plunger, or platen.

"Stop control" means an operator control designed to immediately deactivate the clutch control and activate the brake to stop slide motion.

"Stripper" means a mechanism or die part for removing the parts or material from the punch.

"Stroking selector" means the part of the clutch/brake control that determines the type of stroking when the operating means is actuated. The stroking selector generally includes positions for "off" (clutch control), "inch, " "single stroke, " and "continuous" (when continuous is furnished).

"Sweep device" means a single or double arm (rod) attached to the upper die or slide of the press and designed to move the operator's hands to a safe position as the dies close, if the operator's hands are inadvertently within the point of operation.

"Trip or (tripping)" means activation of the clutch to "run" the press.

"Turnover bar" means a bar used in die setting to manually turn the crankshaft of the press.

"Two-hand control device" means a two-hand trip that further requires concurrent pressure from both hands of the operator during a substantial part of the die-closing portion of the stroke of the press.

"Two-hand trip" means a clutch actuating means requiring the concurrent use of both hands of the operator to trip the press.

"Unitized tooling" means a type of die in which the upper and lower members are incorporated into a self-contained unit so arranged as to hold the die members in alignment.

"Validation" or **"validate"** means for PSDI safety systems that a WISHA recognized third-party validation organization:

• For design certification/validation has reviewed the manufacturer's certification that the PSDI safety system meets the requirements of WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700 and the underlying tests and analyses performed by the manufacturer, has performed additional tests and analyses which may be required by WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700, and concludes that the requirements of WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700 have been met; and

• For installation certification/validation and annual recertification/revalidation has reviewed the employer's certification that the PSDI safety system meets the requirements of WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700 and the underlying tests performed by the employer, has performed additional tests and analyses which may be required by WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700, and concludes that the requirements of WAC 296-24-19503 through 296-24-19517 and WAC 296-24-20700 have been met.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 95-17-036, § 296-24-19501, filed 8/9/95, effective 9/25/95. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-19501, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-19501, filed 11/14/88; Order 76-6, § 296-24-19501, filed 3/1/76; Order 73-5, § 296-24-19501, filed 5/9/73 and Order 73-4, § 296-24-19501, filed 5/7/73.]

WAC 296-24-19503 General requirements. (1) New installations. The requirements of this section shall apply to all mechanical power presses installed on or after August 31, 1971, except that the requirements of subsections 19505 (13), (14) and 19507(5) of WAC 296-24-195 shall be complied with by November 1, 1975.

(2) Former installations. The requirements of this section shall apply to all mechanical power presses installed prior to August 31, 1971, except that the requirements of section 19505 and 19507 of WAC 296-24-195 shall be complied with by November 1, 1975.

(3) All installations. The requirements of this section pertaining to the care and use of mechanical power presses shall apply to all mechanical power press operations as of February 15, 1972.

(4) Reconstruction and modification. It shall be the responsibility of any person reconstructing, or modifying a mechanical power press to do so in accordance with WAC 296-24-19505.

(5) Excluded machines. Press brakes, hydraulic and pneumatic power presses, bulldozers, hot bending and hot metal presses, forging presses and hammers, riveting machines and similar types of fastener applicators are excluded from the requirements of this section.

[Order 76-6, § 296-24-19503, filed 3/1/76; Order 73-5, § 296-24-19503, filed 5/9/73 and Order 73-4, § 296-24-19503, filed 5/7/73.]

WAC 296-24-19505 Mechanical power press guarding and construction, general. (1) Hazards to personnel associated with broken or falling machine components. Machine components shall be designed, secured, or covered to minimize hazards caused by breakage, or loosening and falling or release of mechanical energy (i.e. broken springs).

(2) Brakes. Friction brakes provided for stopping or holding a slide movement shall be inherently self-engaging by requiring power or force from an external source to cause disengagement; brake capacity shall be sufficient to stop the motion of the slide quickly and capable of holding the slide and its attachments at any point in its travel.

(3) Machines using full revolution positive clutches.

(a) Machines using full revolution clutches shall incorporate a single-stroke mechanism. Single-stroke mechanism will not be required where full revolution-type presses are used for production-type work, with automatic feeding and

injection on a continuous operation and the points of operation are fully enclosed by a fixed barrier guard with no employee exposure.

(b) If the single-stroke mechanism is dependent upon spring action, the spring(s) shall be of the compression type, operating on a rod or guided within a hole or tube, and designed to prevent interleaving of the spring coils in event of breakage.

(c) During diesetting operations, when guards are not applicable and for presses provided with barring holes in the flywheel, the diesetters shall be protected by:

(i) Deenergizing the press and the flywheel at rest; and

(ii) The prime mover power to the press is locked-out; and

(iii) The slide is moved by manually turning the crankshaft with the aid of a turnover bar (a lever) inserted through the barring hole in the flywheel.

Note: Two methods of ensuring removal of the turnover bar from the barring hole, per ANSI B11.1-1971, Section 2.51 are:
1. Use of spring action on the end of the bar, or
2. Use of storage pockets for the bar, incorporating an interlocking switch.

(d) During diesetting operations, when guards are not applicable on presses over 60 tons in size where the slide cannot be moved manually, safeguarding will be provided if the press is equipped with a "jog" mode of operation, and:

(i) The flywheel is brought to rest and the clutch is engaged before the drive motor is jogged; and

(ii) The "jog" control requires two-handed operations; or

(iii) The "jog" control is a single control protected against accidental actuation and so located that the worker cannot reach into the point-of-operation while operating the single control.

(e) Safeguarding of the diesetter, as set forth in subdivisions (c) and (d) of this section, constitutes a "device" as defined in WAC 296-24-19501.

(4) Foot pedals (treadle).

(a) The pedal mechanism shall be protected to prevent unintended operation from falling or moving objects or by accidental stepping onto the pedal.

(b) A pad with a nonslip contact area shall be firmly attached to the pedal.

(c) The pedal return spring(s) shall be of the compression type, operating on a rod or guided within a hole or tube, or designed to prevent interleaving of spring coils in event of breakage.

(d) If pedal counterweights are provided, the path of the travel of the weight shall be enclosed.

(5) Hand operated levers.

(a) Hand-lever-operated power presses shall be equipped with a spring latch on the operating lever to prevent premature or accidental tripping.

(b) The operating levers on hand-tripped presses having more than one operating station shall be interlocked to prevent the tripping of the press except by the "concurrent" use of all levers.

(6) Two-hand trip.

(a) A two-hand trip shall have the individual operator's hand controls protected against unintentional operation and have the individual operator's hand controls arranged by design and construction and/or separation to require the use of both hands to trip the press and use a control arrangement requiring concurrent operation of the individual operator's hand controls.

(b) Two-hand trip systems on full revolution clutch machines shall incorporate an antirepeat feature.

(c) If two-hand trip systems are used on multiple operator presses, each operator shall have a separate set of controls.

(7) Machines using part revolution clutches.

(a) The clutch shall release and the brake shall be applied when the external clutch engaging means is removed, deactivated, or deenergized.

(b) A red color stop control shall be provided with the clutch/brake control system. Momentary operation of the stop control shall immediately deactivate the clutch and apply the brake. The stop control shall override any other control, and reactuation of the clutch shall require use of the operating (tripping) means which has been selected.

(c) A means of selecting off, "inch" single stroke, and "continuous" (when the continuous function is furnished) shall be supplied with the clutch/brake control to select type of operation of the press. Fixing of selection shall be by means capable of supervision by the employer.

(d) Use of the "inch" mode constitutes use of a "device" within the meaning of WAC 296-24-19501. Installed "inch" mode provides point-of-operation safeguarding for diesetters. The "inch" operating means shall be designed to prevent exposure of the workers hands within the point of operation by:

(i) Requiring the concurrent use of both hands to actuate the clutch, or

(ii) Being a single control protected against accidental actuation and so located that the worker cannot reach into the point of operation while operating the single control.

(e) Two-hand controls for single stroke shall conform to the following requirements:

(i) Each hand control shall be protected against unintended operation and arranged by design, construction, and/or separation so that the concurrent use of both hands is required to trip the press.

(ii) The control system shall be designed to permit an adjustment which will require concurrent pressure from both hands during the die closing portion of the stroke.

(iii) The control system shall incorporate an antirepeat feature.

(iv) The control system shall be designed to require release of all operator's hand controls before an interrupted stroke can be resumed. This requirement pertains only to those single stroke two-hand controls manufactured and installed on or after August 31, 1971.

(f) (Reserved.)

(g) Controls for more than one operating station shall be designed to be activated and deactivated in complete sets of two operator's hand controls per operating station by means capable of being supervised by the employer. The clutch/brake control system shall be designed and constructed to prevent actuation of the clutch if all operating stations are bypassed.

(h) Those clutch/brake control systems which contain both single and continuous functions shall be designed so that completion of continuous circuits may be supervised by the

employer. The initiation of continuous run shall require a prior action or decision by the operator in addition to the selection of "continuous" on the stroking selector, before actuation of the operating means will result in continuous stroking.

(i) If foot control is provided, the selection method between hand and foot control shall be separate from the stroking selector and shall be designed so that the selection may be supervised by the employer.

(j) Foot operated tripping controls, if used, shall be protected so as to prevent operation from falling or moving objects, or from unintended operation by accidental stepping onto the foot control.

(k) The control of air-clutch machines shall be designed to prevent a significant increase in the normal stopping time due to failure within the operating valve mechanism, and to inhibit further operation if such failure does occur. These requirements shall apply only to those clutch/brake air-valve controls manufactured and installed on or after August 31, 1971, but shall not apply to machines intended only for continuous automatic feeding applications.

(l) The clutch/brake control shall incorporate an automatic means to prevent initiation or continued activation of the single stroke or continuous functions unless the press drive motor is energized and in the forward direction.

(m) The clutch/brake control shall automatically deactivate in event of failure of the power or pressure supply for the clutch engaging means. Reactivation of clutch shall require restoration of normal supply and the use of the tripping mechanism(s).

(n) The clutch/brake control shall automatically deactivate in event of failure of the counterbalance(s) air supply. Reactivation of the clutch shall require restoration of normal air supply and use of the tripping mechanism(s).

(o) Selection of bar operation shall be by means capable of being supervised by the employer. A separate pushbutton shall be employed to activate the clutch, and the clutch shall be activated only if the driver motor is deenergized.

(8) Electrical.

(a) A main power disconnect switch capable of being locked only in the Off position shall be provided with every power press control system.

(b) The motor start button shall be protected against accidental operation.

(c) All mechanical power press controls shall incorporate a type of drive motor starter that will disconnect the drive motor from the power source in event of control voltage or power source failure, and require operation of the motor start button to restart the motor when voltage conditions are restored to normal.

(d) All a.c. control circuits and solenoid valve coils shall be powered by not more than a nominal 120-volt a.c. supply obtained from a transformer with an isolated secondary. Higher voltages that may be necessary for operation of machine or control mechanisms shall be isolated from any control mechanism handled by the operator, but motor starters with integral start-stop buttons may utilize line voltage cont [control]. All d.c. control circuits shall be powered by not more than nominal 240-volt d.c. supply isolated from any higher voltages.

(e) All clutch/brake control electrical circuits shall be protected against the possibility of an accidental ground in the control circuit causing false operation of the press.

(f) Electrical clutch/brake control circuits shall incorporate features to minimize the possibility of an unintended stroke in event of the failure of a control component to function properly, including relays, limit switches, and static output circuits.

(9) Slide counterbalance systems.

(a) Spring counterbalance systems when used shall incorporate means to retain system parts in event of breakage.

(b) Spring counterbalances when used shall have the capability to hold the slide and its attachments at midstroke, without brake applied.

(c) Air counterbalance cylinders shall incorporate means to retain the piston and rod in case of breakage or loosening.

(d) Air counterbalance cylinders shall have adequate capability to hold the slide and its attachments at any point in stroke, without brake applied.

(e) Air counterbalance cylinders shall incorporate means to prevent failure of capability (sudden loss of pressure) in event of air supply failure.

(10) Air controlling equipment. Air controlling equipment shall be protected against foreign material and water entering the pneumatic system of the press. A means of air lubrication shall be provided when needed.

(11) Hydraulic equipment. The maximum anticipated working pressures in any hydraulic system on a mechanical power press shall not exceed the safe working pressure rating of any component used in that system.

(12) Pressure vessels. All pressure vessels used in conjunction with power presses shall conform to the American Society of Mechanical Engineers Code for Pressure Vessels, 1968 Edition.

(13) Control reliability. When required by subsection 19507(5) of WAC 296-24-195, the control system shall be constructed so that a failure within the system does not prevent the normal stopping action from being applied to the press when required, but does prevent initiation of a successive stroke until the failure is corrected. The failure shall be detectable by a simple test, or indicated by the control system. This requirement does not apply to those elements of the control system which have no effect on the protection against point of operation injuries.

(14) Brake system monitoring. When required by subsection 19507(5) of WAC 296-24-195, the brake monitor shall meet the following requirements:

(a) Be so constructed as to automatically prevent the activation of a successive stroke if the stopping time or braking distance deteriorates to a point where the safety distance being utilized does not meet the requirements set forth in item 19507 (3)(c)(v) or 19507 (3)(g)(iii) of this section. The brake monitor used with the Type B gate or movable barrier device shall be installed in a manner to detect slide top-stop overrun beyond the normal limit reasonably established by the employer.

(b) Be installed on a press such that it indicates when the performance of the braking system has deteriorated to the extent described in subdivision 19505 (14)(a) of this section; and

(c) Be constructed and installed in a manner to monitor brake system performance on each stroke.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-19505, filed 1/10/91, effective 2/12/91; Order 76-6, § 296-24-19505, filed 3/1/76; Order 74-27, § 296-24-19505, filed 5/7/74; Order 73-5, § 296-24-19505, filed 5/9/73 and Order 73-4, § 296-24-19505, filed 5/7/73.]

WAC 296-24-19507 Safeguarding the point of operation. (1) General requirements.

(a) It shall be the responsibility of the employer to provide and insure the usage of "point of operation guards" or properly applied and adjusted point of operation devices on every operation performed on a mechanical power press. See Table O-10.

(b) The requirement of (a) of this subsection shall not apply when the point of operation opening is one-fourth inch or less. See Table O-10.

TABLE O-10

MAXIMUM OPENINGS UNDER GUARDS

Distance of Opening From Point of Operation Hazard (Inches)	Maximum Openings Under Guard (Inches)
1/2 to 1-1/2	1/4
1-1/2 to 2-1/2	3/8
2-1/2 to 3-1/2	1/2
3-1/2 to 5-1/2	5/8
5-1/2 to 6-1/2	3/4
6-1/2 to 7-1/2	7/8
7-1/2 to 12-1/2	1-1/4
12-1/2 to 15-1/2	1-1/2
15-1/2 to 17-1/2	1-7/8
17-1/2 to 31-1/2	2-1/8

MAXIMUM OPENINGS THROUGH GUARDS

Material	Guard Clearance From Hazard Point	Largest Mesh or Opening (Inches)
Woven Wire, Expanded Metal or Perforated Metal	From 2 to 4	1/2
	4 to 15	2
Wood or Metal Strips (Crossed)	From 2 to 4	3/8
	4 to 15	2
Wood or Metal Strips (Not Crossed)	From 2 to 4	1/2 width of strip
	4 to 15	1 width of strip

Note: The specifications for the materials used for filling barrier, point of operation guards is contained in Table O-12, WAC 296-24-20531. When plastic is used as filling, it shall be 1/4 inch thick (minimum).

(2) Point of operation guards.

(a) Every point of operation guard shall meet the following design, construction, application and adjustment requirements:

(i) It shall prevent entry of hands or fingers into the point of operation by reaching through, over, under or around the guard;

(ii) It shall conform to the maximum permissible openings of Table O-10;

(iii) It shall, in itself, create no pinch point between the guard and moving machine parts;

(iv) It shall utilize fasteners not readily removable by operator, so as to minimize the possibility of misuse or removal of essential parts;

(v) It shall facilitate its inspection, and

(vi) It shall offer maximum visibility of the point of operation consistent with other requirements.

(b) A die enclosure guard shall be attached to the die shoe or stripper in a fixed position.

(c) A fixed barrier guard shall be attached securely to the frame of the pressor to the bolster plate.

(d) An interlocked press barrier guard shall be attached to the press frame or bolster and shall be interlocked with the press clutch control so that the clutch cannot be activated unless the guard itself, or the hinged or movable sections of the guard are in position to conform to the requirements of Table O-10.

(e) The hinged or movable sections of an interlocked press barrier guard shall not be used for manual feeding. The guard shall prevent opening of the interlocked section and reaching into the point of operation prior to die closure or prior to the cessation of slide motion. See subsection (3)(b) of this section regarding manual feeding through interlocked press barrier devices.

(f) The adjustable barrier guard shall be securely attached to the press bed, bolster plate, or die shoe, and shall be adjusted and operated in conformity with Table O-10 and the requirements of this subsection. Adjustments shall be made only by authorized personnel whose qualifications include a knowledge of the provisions of Table O-10 and this subsection.

(g) A point of operation enclosure which does not meet the requirements of this subsection and Table O-10 shall be used only in conjunction with point of operation devices.

(3) Point of operation devices.

(a) Point of operation devices shall protect the operator by:

(i) Preventing and/or stopping normal stroking of the press if the operator's hands are inadvertently placed in the point of operation; or

(ii) Preventing the operator from inadvertently reaching into the point of operation or withdrawing his/her hands if they are inadvertently located in the point of operation, as the dies close; or

(iii) Preventing the operator from inadvertently reaching into the point of operation at all times; or

(iv) (Reserved.)

(v) Requiring application of both of the operator's hands to machine operating controls and locating such controls at such a safety distance from the point of operation that the slide completes the downward travel or stops before the operator can reach into the point of operation with his/her hands; or

(vi) Enclosing the point of operation before a press stroke can be initiated and maintaining this closed condition until the motion of the slide had ceased; or

(vii) Enclosing the point of operation before a press stroke can be initiated, so as to prevent an operator from reaching into the point of operation prior to die closure or prior to cessation of slide motion during the downward stroke.

(b) The gate or movable barrier device shall protect the operator as follows:

(i) A Type A gate or movable barrier device shall protect the operator in the manner specified in (a)(vi) of this subsection.

(ii) A Type B gate or movable barrier device shall protect the operator in the manner specified in (a)(vii) of this subsection.

(c) A presence sensing point of operation device shall protect the operator as provided in (a)(i) of this subsection, and shall be interlocked into the control circuit to prevent or stop slide motion if the operator's hand or other part of his/her body is within the sensing field of the device during the downstroke of the press slide.

(i) The device may not be used on machines using full revolution clutches.

(ii) The device may not be used as a tripping means to initiate slide motion, except when used in total conformance with WAC 296-24-19517.

(iii) The device shall be constructed so that a failure within the system does not prevent the normal stopping action from being applied to the press when required, but does prevent the initiation of a successive stroke until the failure is corrected. The failure shall be indicated by the system.

(iv) Muting (bypassing of the protective function) of such device, during the upstroke of the press slide, is permitted for the purpose of parts ejection, circuit checking, and feeding.

(v) The safety distance (Ds) from the sensing field to the point of operation shall be greater than the distance determined by the following formula:

Ds	=	63 inches/second x Ts where:
Ds	=	minimum safety distance (inches);
63 inches/second	=	hand speed constant; and
Ts	=	stopping time of the press measured at approximately 90° position of crankshaft rotation (seconds).

(vi) Guards shall be used to protect all areas of entry to the point of operation not protected by the presence sensing device.

(d) The pull-out device shall protect the operator as specified in (a)(ii) of this subsection and shall include attachments for each of the operator's hands.

(i) Attachments shall be connected to and operated only by the press slide or upper die.

(ii) Attachment shall be adjusted to prevent the operator from reaching into the point of operation or to withdraw the operator's hands from the point of operation before the dies close.

(iii) A separate pull-out device shall be provided for each operator if more than one operator is used on a press.

(iv) Each pull-out device in use shall be visually inspected and checked for proper adjustment at the start of each operator shift, following a new die set-up, and when operators are changed. Necessary maintenance or repair or both shall be performed and completed before the press is operated. Records of inspections and maintenance shall be kept in accordance with WAC 296-24-19511.

(e) The sweep device, shall protect the operator as specified in (a)(ii) of this subsection, by removing his/her hands safely to a safe position if they are inadvertently located in the point of operation, as the dies close or prior to tripping the clutch. Devices operating in this manner shall have a barrier, attached to the sweep arm in such a manner as to prevent the operator from reaching into the point of operation, past the trailing edge of the sweep arm on the downward stroke of the press. This device may not be used for point of operation safeguarding after December 31, 1976.

(i) The sweep device must be activated by the slide or by motion of a foot pedal triprod.

(ii) The sweep device must be designed, installed and operated so as to prevent the operator from reaching into the point of operation before the dies close.

(iii) The sweep device must be installed so that it will not itself create an impact or shear hazard between the sweep arm and the press tie rods, dies, or any other part of the press or barrier.

(iv) Partial enclosure conforming with (e) of this subsection, as to the area of entry which they protect, must be provided on both sides of the point of operation to prevent the operator from reaching around or behind the sweep device and into the point of operation after the dies start to close. Partial enclosures shall not themselves create a pinch point or shear hazard.

(f) A holdout or a restraint device shall protect the operator as specified in (a)(iii) of this subsection and shall include attachments for each of the operator's hands. Such attachments shall be securely anchored and adjusted in such a way that the operator is restrained from reaching into the point of operation. A separate set of restraints shall be provided for each operator if more than one operator is required on a press.

(g) The two hand control device shall protect the operator as specified in (a)(v) of this subsection.

(i) When used in press operations requiring more than one operator, separate two hand controls shall be provided for each operator, and shall be designed to require concurrent application of all operators' controls to activate the slide. The removal of a hand from any control button shall cause the slide to stop.

(ii) Each two hand control shall meet the construction requirements of WAC 296-24-19505 (7)(e).

(iii) The safety distance (Ds) between each two hand control device and the point of operation shall be greater than the distance determined by the following formula:

Ds	=	63 inches/second x Ts, where:
Ds	=	minimum safety distance (inches);
63 inches/second	=	hand speed constant; and
Ts	=	stopping time of the press measured at approximately 90° position of crankshaft rotation (seconds).

(iv) Two hand control shall be fixed in position so that only a supervisor or safety engineer is capable of relocating the controls.

(h) The two hand trip device shall protect the operator as specified in (a)(v) of this subsection.

(i) When used in press operations requiring more than one operator, separate two hand trips shall be provided for each operator, and shall be designed to require concurrent application of all operators' controls to activate the slide.

(ii) Each two hand trip shall meet the construction requirements of WAC 296-24-19505(6).

(iii) The safety distance (Dm) between the two hand trip and the point of operation shall be greater than the distance determined by the following formula:

Dm = 63 inches/second x Tm; where:
Dm = minimum safety distance (inches);
63 inches/second = hand speed constant; and
Tm = the maximum time the press takes for the die closure after it has been tripped (seconds). For full revolution clutch presses with only one engaging point Tm is equal to the time necessary for one and one-half revolutions of the crankshaft. For full revolution clutch presses with more than one engaging point, Tm shall be calculated as follows:

$$Tm = \left\{ \frac{1}{\frac{1}{2} + \text{Number of engaging points per revolution}} \right\} \times \text{time necessary to complete one revolution of the crank-shaft (seconds)}$$

(iv) Two hand trips shall be fixed in position so that only a supervisor or safety engineer is capable of relocating the controls.

(i) (Reserved.)

(4) Hand feeding tools. Hand feeding tools are intended for placing and removing materials in and from the press. Hand feeding tools are not a point of operation guard or protection device and shall not be used in lieu of the "guards" or devices required in this section.

(5) Additional requirements for safeguarding. Where the operator feeds or removes parts by placing one or both hands in the point of operation, and a two hand control, presence sensing device of Type B gate or movable barrier (on a part revolution clutch) is used for safeguarding:

(a) The employer shall use a control system and a brake monitor which comply with WAC 296-24-19505 (13) and (14). This requirement shall be complied with by November 1, 1975;

(b) The exception in WAC 296-24-19505 (7)(e)(iv) for two hand controls manufactured and installed before August 31, 1971, is not applicable under this subsection;

(c) The control of air clutch machines shall be designed to prevent a significant increase in the normal stopping time due to a failure within the operating valve mechanism, and to inhibit further operation if such failure does occur, where a part revolution clutch is employed. The exception in WAC 296-24-19505 (7)(k) for controls manufactured and installed before August 31, 1971, is not applicable under this subsection.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-19507, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-19507, filed 11/14/88. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-19507, filed 11/13/80; Order 76-6, § 296-24-19507, filed 3/1/76; Order 73-5, § 296-24-19507, filed 5/9/73 and Order 73-4, § 296-24-19507, filed 5/7/73.]

WAC 296-24-19509 Design, construction, setting and feeding of dies. (1) General requirements. Effective February 1, 1975, the employer shall:

(a) Use dies and operating methods designed to control or eliminate hazards to operating personnel, and

(b) Furnish and enforce the use of hand tools for freeing and removing stuck work or scrap pieces from the die, so that no employee need reach into the point of operation for such purposes.

(2) (Reserved.)

(3) Scrap handling. The employer shall provide means for handling scrap from roll feed or random length stock operations. Scrap cutters used in conjunction with scrap handling systems shall be safeguarded in accordance with WAC 296-24-19507 and 296-24-205, mechanical power-transmission apparatus.

(4) Guide post hazard. The hazard created by a guide post (when it is located in the immediate vicinity of the operator) when separated from its bushing by more than one-fourth inch shall be considered as a point of operation hazard and be protected in accordance with WAC 296-24-19507.

(5) Unitized tooling. If unitized tooling is used, the opening between the top of the punch holder and the face of the slide, or striking pad, shall be safeguarded in accordance with the requirements of WAC 296-24-19507.

(6) Tonnage, stroke and weight designation. All dies shall be:

(a) Stamped with the tonnage and stroke requirements, or have these characteristics recorded if these records are readily available to the die setter;

(b) Stamped to indicate upper die weight when necessary for air counterbalance pressure adjustment; and

(c) Stamped to indicate complete die weight when handling equipment may become overloaded.

(7) Die fastening. Provision shall be made in both the upper and lower shoes for securely mounting the die to the bolster and slide. Where clamp caps or setscrews are used in conjunction with punch stems, additional means of securing the upper shoe to the slide shall be used.

(8) Die handling. Handling equipment attach points shall be provided on all dies requiring mechanical handling.

(9) Diesetting.

(a) When diesetters are operating a mechanical power press, such as running test and production parts, diesetting or trouble shooting, they shall be protected by point-of-operation guards or devices.

(b) The employer shall establish a diesetting procedure that will insure compliance with WAC 296-24-19507.

(c) The employer shall provide spring loaded turnover bars, for presses designed to accept such turnover bars.

(d) The employer shall provide die stops or other means to prevent losing control of the die while setting or removing dies in presses which are inclined.

(e) The employer shall provide and enforce the use of safety blocks for use whenever dies are being adjusted or repaired in the press.

(f) The employer shall provide brushes, swabs, lubricating rolls and automatic or manual pressure guns so that operators and diesetters shall not be required to reach into the point of operation or other hazard areas to lubricate material, punches or dies.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-19509, filed 1/10/91, effective 2/12/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-19509, filed 12/24/81; Order 76-6, § 296-24-19509, filed 3/1/76; Order 73-5, § 296-24-19509, filed 5/9/73 and Order 73-4, § 296-24-19509, filed 5/7/73.]

WAC 296-24-19511 Inspection, maintenance and modification of presses. (1) Inspection and maintenance records.

(a) It shall be the responsibility of the employer to establish and follow a program of periodic and regular inspections of his power presses to insure that all their parts, auxiliary equipment and safeguards are in a safe operating condition and adjustment. The employer shall maintain records of these inspections and the maintenance work performed.

(b) Each press shall be inspected and tested no less than weekly to determine the condition of the clutch/brake mechanism, anti-repeat feature and single stroke mechanism. Necessary maintenance or repair or both shall be performed and completed before the press is operated. The employer shall maintain records of these inspections and the maintenance work performed. These requirements do not apply to those presses which comply with subsections 19505 (13) and (14).

(2) Modification. It shall be the responsibility of any person modifying a power press to furnish instructions with the modification to establish new or changed guidelines for use and care of the power press so modified.

(3) Training of maintenance personnel. It shall be the responsibility of the employer to insure the original and continuing competence of personnel caring for, inspecting and maintaining power presses.

[Order 76-6, § 296-24-19511, filed 3/1/76; Order 73-5, § 296-24-19511, filed 5/9/73 and Order 73-4, § 296-24-19511, filed 5/7/73.]

WAC 296-24-19513 Operation of power presses. (1) Employment of minors. The employer shall permit no one under 18 years of age to operate or assist in the operation of machinery covered in this section, except that this section shall not be deemed to prohibit the employment of persons who are 16 or 17 years of age in an apprenticeship training program which meets the requirements contained in chapter 49.04 RCW, apprenticeship.

(2) Instruction to operators. The employer shall train and instruct the operator in the safe method of work before starting work on any operation covered by this section. The employer shall ensure by adequate supervision that correct operating procedures are being followed.

(3) Work area. The employer shall provide clearance between machines so that movement of one operator will not interfere with the work of another. Ample room for cleaning machines, handling material, work pieces, and scrap shall also be provided. All surrounding floors shall be kept in good condition and free from obstructions, grease, oil and water.

(4) Overloading. The employer shall operate his presses within the tonnage and attachment weight ratings specified by the manufacturer.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-19513, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-19513, filed 3/1/76; Order 73-5, § 296-24-19513, filed 5/9/73 and Order 73-4, § 296-24-19513, filed 5/7/73.]

WAC 296-24-19514 Reports of injuries to employees operating mechanical power presses. The employer shall, within thirty days of the occurrence, report to the Assistant Director, Department of Labor and Industries, Division of Consultation and Compliance, Post Office Box 44600, Olympia, Washington 98504-4600, all point of operation injuries to operators or other employees. The following information shall be included in the report:

(1) Employer's name, address and location of the workplace (establishment).

(2) Employee's name, injury sustained, and the task being performed (operation, set-up, maintenance, or other).

(3) Type of clutch used on the press (full revolution, part revolution, or direct drive).

(4) Type of safeguard(s) being used (two-hand control, two-hand trip, pull-outs, sweeps, or other). If the safeguard is not described in this section, give a complete description.

(5) Cause of the accident (repeat of press, safeguard failure, removing stuck part or scrap, no safeguard provided, no safeguard in use, or other).

(6) Type of feeding (manual with hands in dies or with hands out of dies, semiautomatic, automatic, or other).

(7) Means used to actuate press stroke (foot trip, foot control, hand trip, hand control, or other).

(8) Number of operators required for the operation and the number of operators provided with controls and safeguards.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 95-17-036, § 296-24-19514, filed 8/9/95, effective 9/25/95.]

WAC 296-24-19517 Presence sensing device initiation (PSDI). (1) General.

(a) The requirements of this section shall apply to all part revolution mechanical power presses used in the PSDI mode of operation.

(b) The relevant requirements of WAC 296-24-19503 through 296-24-19517 of this part also shall apply to all presses used in the PSDI mode of operation, whether or not cross referenced in this section. Such cross-referencing of specific requirements from WAC 296-24-19503 through 296-24-19517 of this part is intended only to enhance convenience and understanding in relating to the new provisions to the existing standard, and is not to be construed as limiting the applicability of other provisions in WAC 296-24-19503 through 296-24-19517 of this part.

(c) Full revolution mechanical power presses shall not be used in the PSDI mode of operation.

(d) Mechanical power presses with a configuration which would allow a person to enter, pass through, and become clear of the sensing field into the hazardous portion of the press shall not be used in the PSDI mode of operation.

(e) The PSDI mode of operation shall be used only for normal production operations. Die-setting and maintenance procedures shall comply with WAC 296-24-19503 through 296-24-19517 of this part, and shall not be done in the PSDI mode.

(2) Brake and clutch requirements.

(a) Presses with flexible steel band brakes or with mechanical linkage actuated brakes or clutches shall not be used in the PSDI mode.

(b) Brake systems on presses used in the PSDI mode shall have sufficient torque so that each average value of stopping times (Ts) for stops initiated at approximately forty-five degrees, sixty degrees, and ninety degrees, respectively, of crankshaft angular position, shall not be more than one hundred twenty-five percent of the average value of the stopping time at the top crankshaft position. Compliance with this requirement shall be determined by using the heaviest upper die to be used on the press, and operating at the fastest press speed if there is speed selection.

(c) Where brake engagement and clutch release is effected by spring action, such spring(s) shall operate in compression on a rod or within a hole or tube, and shall be of non-interleaving design.

(3) Pneumatic systems.

(a) Air valve and air pressure supply/control.

(i) The requirements of WAC 296-24-19505 (7)(m) and (n), (10), (12) and WAC 296-24-19507 (5)(c) of this part apply to the pneumatic systems of machines used in the PSDI mode.

(ii) The air supply for pneumatic clutch/brake control valves shall incorporate a filter, an air regulator, and, when necessary for proper operation, a lubricator.

(iii) The air pressure supply for clutch/brake valves on machines used in the PSDI mode shall be regulated to pressures less than or equal to the air pressure used when making the stop time measurements required by subsection (2)(b) of this section.

(b) Air counterbalance systems.

(i) Where presses that have slide counterbalance systems are used in the PSDI mode, the counterbalance system shall also meet the requirements of WAC 296-24-19505(9) of this part.

(ii) Counterbalances shall be adjusted in accordance with the press manufacturer's recommendations to assure correct counterbalancing of the slide attachment (upper die) weight for all operations performed on presses used in the PSDI mode. The adjustments shall be made before performing the stopping time measurements required by subsections (2)(b), (5)(c), and (9)(f) of this section.

(4) Flywheels and bearings. Presses whose designs incorporate flywheels running on journals on the crankshaft or back shaft, or bull gears running on journals mounted on the crankshaft, shall be inspected, lubricated, and maintained as provided in subsection (10) of this section to reduce the possibility of unintended and uncontrolled press strokes caused by bearing seizure.

(5) Brake monitoring.

(a) Presses operated in the PSDI mode shall be equipped with a brake monitor that meets the requirements of WAC 296-24-19505 (13) and (14). In addition, the brake monitor shall be adjusted during installation certification to prevent successive stroking of the press if increases in stopping time cause an increase in the safety distance above that required by subsection (9)(f) of this section.

(b) Once the PSDI safety system has been certified/validated, adjustment of the brake monitor shall not be done without prior approval of the validation organization for both the brake monitor adjustment and the corresponding adjustment of the safety distance. The validation organization shall in its installation validation, state that in what circumstances, if any, the employer has advance approval for adjustment, when prior oral approval is appropriate and when prior approval must be in writing. The adjustment shall be done under the supervision of an authorized person whose qualifications include knowledge of safety distance requirements and experience with the brake system and its adjustment. When brake wear or other factors extend press stopping time beyond the limit permitted by the brake monitor, adjustment, repair, or maintenance shall be performed on the brake or other press system element that extends the stopping time.

(c) The brake monitor setting shall allow an increase of no more than ten percent of the longest stopping time for the press, or ten milliseconds, whichever is longer, measured at the top of the stroke.

(6) Cycle control and control systems.

(a) The control system on presses used in the PSDI mode shall meet the applicable requirements of WAC 296-24-19505 (7), (8), and (13) and 296-24-19507(5) of this part.

(b) The control system shall incorporate a means of dynamically monitoring for decoupling of the rotary position indicating mechanism drive from the crankshaft. This monitor shall stop slide motion and prevent successive press strokes if decoupling occurs, or if the monitor itself fails.

(c) The mode selection means of WAC 296-24-19505 (7)(c) of this part shall have at least one position for selection of the PSDI mode. Where more than one interruption of the light sensing field is used in the initiation of a stroke, either the mode selection means must have one position for each function, or a separate selection means shall be provided which becomes operable when the PSDI mode is selected. Selection of PSDI mode and the number of interruptions/withdrawals of the light sensing field required to initiate a press cycle shall be by means capable of supervision by the employer.

(d) A PSDI set-up/reset means shall be provided which requires an overt action by the operator, in addition to PSDI mode selection, before operation of the press by means of PSDI can be started.

(e) An indicator visible to the operator and readily seen by the employer shall be provided which shall clearly indicate that the system is set-up for cycling in the PSDI mode.

(f) The control system shall incorporate a timer to deactivate PSDI when the press does not stroke within the period of time set by the timer. The timer shall be manually adjustable, to a maximum time of thirty seconds. For any timer setting greater than fifteen seconds, the adjustment shall be made by the use of a special tool available only to authorized persons. Following a deactivation of PSDI by the timer, the system shall make it necessary to reset the set-up/reset means in order to reactivate the PSDI mode.

(g) Reactivation of PSDI operation following deactivation of the PSDI mode from any other cause, such as activation of the red color stop control required by WAC 296-24-19505 (7)(b) of this part, interruption of the presence sensing field, opening of an interlock, or reselection of the number of sensing field interruptions/withdrawals required to cycle the press, shall require resetting of the set-up/reset means.

(h) The control system shall incorporate an automatic means to prevent initiation or continued operation in the PSDI mode unless the press drive motor is energized in the forward direction of crankshaft rotation.

(i) The control design shall preclude any movement of the slide caused by operation of power on, power off, or selector switches, or from checks for proper operations as required by subdivision (m) of this subsection.

(j) All components and subsystems of the control system shall be designed to operate together to provide total control system compliance with the requirements of this section.

(k) Where there is more than one operator of a press used for PSDI, each operator shall be protected by a separate, independently functioning, presence sensing device. The control system shall require that each sensing field be interrupted the selected number of times prior to initiating a stroke. Further, each operator shall be provided with a set-up/reset means that meets the requirements of this subsection, and which must be actuated to initiate operation of the press in the PSDI mode.

(l) The control system shall incorporate interlocks for supplemental guards, if used, which will prevent stroke initiation or will stop a stroke in progress if any supplemental guard fails or is deactivated.

(m) The control system shall perform checks for proper operation of all cycle control logic element switches and contacts at least once each cycle. Control elements shall be checked for correct status after power "on" and before the initial PSDI stroke.

(n) The control system shall have provisions for an "inch" operating means meeting the requirements of WAC 296-24-19505 (7)(d) of this part. Die-setting shall not be done in the PSDI mode. Production shall not be done in the "inch" mode.

(o) The control system shall permit only a single stroke per initiation command.

(p) Controls with internally stored programs (e.g., mechanical, electro-mechanical, or electronic) shall meet the requirements of WAC 296-24-19505(13) of this part, and shall default to a predetermined safe condition in the event of any single failure within the system. Programmable controllers which meet the requirements for controls with internally stored programs stated above shall be permitted only if all logic elements affecting the safety system and point of operation safety are internally stored and protected in such a manner that they cannot be altered or manipulated by the user to an unsafe condition.

(7) Environmental requirements. Control components shall be selected, constructed, and connected together in such a way as to withstand expected operational and environmental stresses, at least including those outlined in WAC 296-24-20700. Such stresses shall not so affect the control system as to cause unsafe operation.

(8) Safety system.

(a) Mechanical power presses used in the PSDI mode shall be operated under the control of a safety system which, in addition to meeting the applicable requirements of WAC 296-24-19505(13) and 296-24-19507(5) and other applicable provisions of this part, shall function such that a single failure or single operating error shall not cause injury to personnel from point of operation hazards.

(b) The safety system shall be designed, constructed, and arranged as an integral total system, including all elements of the press, the controls, the safeguarding and any required supplemental safeguarding, and their interfaces with the operator and that part of the environment which has effect on the protection against point of operation hazards.

(9) Safeguarding the point of operation.

(a) The point of operation of presses operated in the PSDI mode shall be safeguarded in accordance with the requirements of WAC 296-24-19507 of this part, except that the safety distance requirements of (f) of this subsection shall be used for PSDI operation.

(b) PSDI shall be implemented only by use of light curtain (photo-electric) presence sensing devices which meet the requirements of WAC 296-24-19507 (3)(c)(iii) of this part unless the requirements of (c) of this subsection have been met.

(c) Alternatives to photo-electric light curtains may be used for PSDI when the employer can demonstrate, through tests and analysis by the employer or the manufacturer, that the alternative is as safe as the photo-electric light curtain, that the alternative meets the conditions of this section, has the same long-term reliability as light curtains and can be integrated into the entire safety system as provided for in this section. Prior to use, both the employer and manufacturer must certify that these requirements and all the other applicable requirements of this section are met and these certifications must be validated by an OSHA-recognized third-party validation organization to meet these additional requirements and all the other applicable requirements of WAC 296-24-19503 through 296-24-19517 and 296-24-20700 of this part. Three months prior to the operation of any alternative system, the employer must notify the OSHA Directorate of Safety Standards Programs of the name of the system to be installed, the manufacturer and the OSHA-recognized third-party validation organization immediately. Upon request, the employer must make available to that office all tests and analyses for OSHA review.

(d) Individual sensing fields of presence sensing devices used to initiate strokes in the PSDI mode shall cover only one side of the press.

(e) Light curtains used for PSDI operation shall have minimum object sensitivity not to exceed one and one-fourth inches (31.75 mm). Where light curtain object sensitivity is user-adjustable, either discretely or continuously, design features shall limit the minimum object sensitivity adjustment not to exceed one and one-fourth inches (31.75 mm). Blanking of the sensing field is not permitted.

(f) The safety distance (Ds) from the sensing field of the presence sensing device to the point of operation shall be greater than or equal to the distance determined by the formula:

$$Ds = Hs(Ts+Tp+Tr+2Tm)+Dp$$

Where:

Ds = Minimum safety distance.

Hs = Hand speed constant of sixty-three inches per second (1.6 m/s).

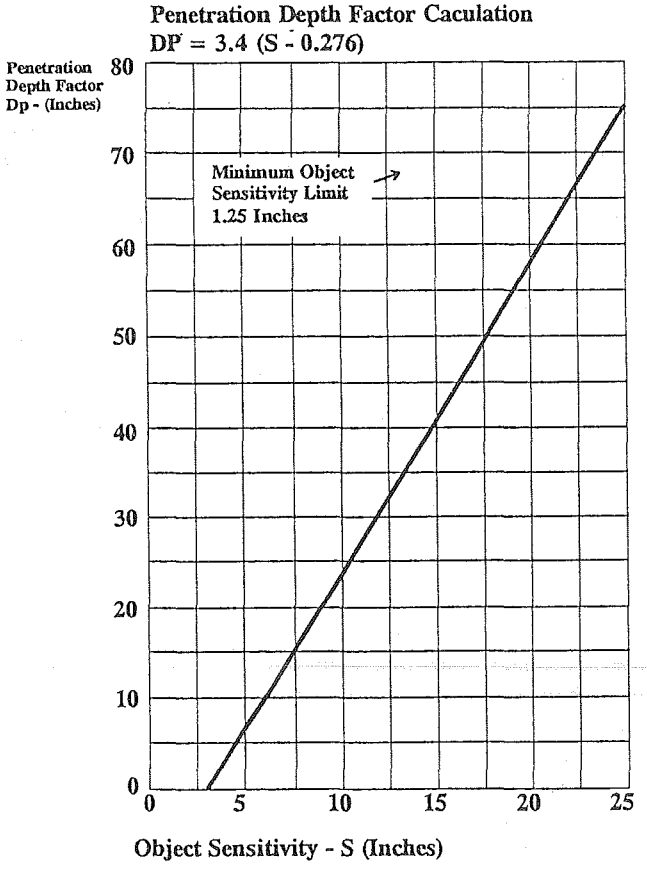
Ts = Longest press stopping time, in seconds, computed by taking averages of multiple measurements at each of three positions (forty-five degrees, sixty degrees, and ninety degrees) of crankshaft angular position; the longest of the three averages is the stopping time to use. (Ts is defined as the sum of the kinetic energy dissipation time plus the pneumatic/magnetic/hy-draulic reaction time of the clutch/brake operating mechanism(s).)

Tp = Longest presence sensing device response time, in seconds.

Tr = Longest response time, in seconds, of all interposing control elements between the presence sensing device and the clutch/brake operating mechanism(s).

Tm = Increase in the press stopping time at the top of the stroke, in seconds, allowed by the brake monitor for brake wear. The time increase allowed shall be limited to no more than ten percent of the longest press stopping time measured at the top of the stroke, or ten milliseconds, whichever is longer.

Dp = Penetration depth factor, required to provide for possible penetration through the presence sensing field by fingers or hand before detection occurs. The penetration depth factor shall be determined from Graph A-1 using the minimum object sensitivity size.



(g) The presence sensing device location shall either be set at each tool change and set-up to provide at least the minimum safety distance, or fixed in location to provide a safety distance greater than or equal to the minimum safety distance for all tooling set-ups which are to be used on that press.

(h) Where presence sensing device location is adjustable, adjustment shall require the use of a special tool available only to authorized persons.

(i) Supplemental safeguarding shall be used to protect all areas of access to the point of operation which are unprotected by the PSDI presence sensing device. Such supplemental safeguarding shall consist of either additional light curtain (photo-electric) presence sensing devices or other types of guards which meet the requirements of WAC 296-24-19507 and 296-24-19517 of this part.

(i) Presence sensing devices used as supplemental safeguarding shall not initiate a press stroke, and shall conform to the requirements of WAC 296-24-19507 (3)(c) and other applicable provisions of this part, except that the safety distance shall comply with (f) of this subsection.

(ii) Guards used as supplemental safeguarding shall conform to the design, construction and application requirements of WAC 296-24-19507(2) of this part, and shall be interlocked with the press control to prevent press PSDI operation if the guard fails, is removed, or is out of position.

(j) Barriers shall be fixed to the press frame or bolster to prevent personnel from passing completely through the sensing field, where safety distance or press configuration is such that personnel could pass through the PSDI presence sensing field and assume a position where the point of operation could be accessed without detection by the PSDI presence sensing device. As an alternative, supplemental presence sensing devices used only in the safeguard mode may be provided. If used, these devices shall be located so as to detect all operator locations and positions not detected by the PSDI sensing field, and shall prevent stroking or stop a stroke in process when any supplemental sensing field(s) are interrupted.

(k) Hand tools. Where tools are used for feeding, removal of scrap, lubrication of parts, or removal of parts that stick on the die in PSDI operations:

(i) The minimum diameter of the tool handle extension shall be greater than the minimum object sensitivity of the presence sensing device(s) used to initiate press strokes; or

(ii) The length of the hand tool shall be such as to ensure that the operator's hand will be detected for any safety distance required by the press set-ups.

(10) Inspection and maintenance.

(a) Any press equipped with presence sensing devices for use in PSDI, or for supplemental safeguarding on presses used in the PSDI mode, shall be equipped with a test rod of diameter specified by the presence sensing device manufacturer to represent the minimum object sensitivity of the sensing field. Instructions for use of the test rod shall be noted on a label affixed to the presence sensing device.

(b) The following checks shall be made at the beginning of each shift and whenever a die change is made.

(i) A check shall be performed using the test rod according to the presence sensing device manufacturer's instruc-

tions to determine that the presence sensing device used for PSDI is operational.

(ii) The safety distance shall be checked for compliance with subsection (9)(f) of this section.

(iii) A check shall be made to determine that all supplemental safeguarding is in place. Where presence sensing devices are used for supplemental safeguarding, a check for proper operation shall be performed using a test rod according to the presence sensing device manufacturer's instructions.

(iv) A check shall be made to assure that the barriers and/or supplemental presence sensing devices required by subsection (9)(j) of this section are operating properly.

(v) A system or visual check shall be made to verify correct counterbalance adjustment for die weight according to the press manufacturer's instructions, when a press is equipped with a slide counterbalance system.

(c) When presses used in the PSDI mode have flywheel or bullgear running on crankshaft mounted journals and bearings, or a flywheel mounted on back shaft journals and bearings, periodic inspections following the press manufacturer's recommendations shall be made to ascertain that bearings are in good working order, and that automatic lubrication systems for these bearings (if automatic lubrication is provided) are supplying proper lubrication. On presses with provision for manual lubrication of flywheel or bullgear bearings, lubrication shall be provided according to the press manufacturer's recommendations.

(d) Periodic inspections of clutch and brake mechanisms shall be performed to assure they are in proper operating condition. The press manufacturer's recommendations shall be followed.

(e) When any check of the press, including those performed in accordance with the requirements of (b), (c), or (d) of this subsection, reveals a condition of noncompliance, improper adjustment, or failure, the press shall not be operated until the condition has been corrected by adjustment, replacement, or repair.

(f) It shall be the responsibility of the employer to ensure the competence of personnel caring for, inspecting, and maintaining power presses equipped for PSDI operation, through initial and periodic training.

(11) Safety system certification/validation.

(a) Prior to the initial use of any mechanical press in the PSDI mode, two sets of certification and validation are required:

(i) The design of the safety system required for the use of a press in the PSDI mode shall be certified and validated prior to installation. The manufacturer's certification shall be validated by an OSHA-recognized third-party validation organization to meet all applicable requirements of WAC 296-24-19503 through 296-24-19517 and 296-24-20700 of this part.

(ii) After a press has been equipped with a safety system whose design has been certified and validated in accordance with (a) of this subsection, the safety system installation shall be certified by the employer, and then shall be validated by an OSHA-recognized third-party validation organization to meet all applicable requirements of WAC 296-24-19503 through 296-24-19517 and 296-24-20700 of this part.

(b) At least annually thereafter, the safety system on a mechanical power press used in the PSDI mode shall be recertified by the employer and revalidated by an OSHA-recognized third-party validation organization to meet all applicable requirements of WAC 296-24-19503 through 296-24-19517 and 296-24-20700 of this part. Any press whose safety system has not been recertified and revalidated within the preceding twelve months shall be removed from service in the PSDI mode until the safety system is recertified and revalidated.

(c) A label shall be affixed to the press as part of each installation certification/validation and the most recent recertification/revalidation. The label shall indicate the press serial number, the minimum safety distance (Ds) required by subsection (9)(f) of this section, the fulfillment of design certification/validation, the employer's signed certification, the identification of the OSHA-recognized third-party validation organization, its signed validation, and the date the certification/validation and recertification/revalidation are issued.

(d) Records of the installation certification and validation and the most recent recertification and revalidation shall be maintained for each safety system equipped press by the employer as long as the press is in use. The records shall include the manufacture and model number of each component and subsystem, the calculations of the safety distance as required by subsection (9)(f) of this section, and the stopping time measurements required by subsection (2)(b) of this section. The most recent records shall be made available to OSHA/WISHA upon request.

(e) The employer shall notify the OSHA-recognized third-party validation organization within five days whenever a component or a subsystem of the safety system fails or modifications are made which may affect the safety of the system. The failure of a critical component shall necessitate the removal of the safety system from service until it is recertified and revalidated, except recertification by the employer without revalidation is permitted when a noncritical component or subsystem is replaced by one of the same manufacture and design as the original, or determined by the third-party validation organization to be equivalent by similarity analysis, as set forth in WAC 296-24-20700.

(f) The employer shall notify the OSHA-recognized third-party validation organization within five days of the occurrence of any point of operation injury while a press is used in the PSDI mode. This is in addition to the report of injury required by WAC 296-24-19517; however, a copy of that report may be used for this purpose.

(12) Die setting and work set-up.

(a) Die setting on presses used in the PSDI mode shall be performed in accordance with WAC 296-24-19509.

(b) The PSDI mode shall not be used for die setting or set-up. An alternative manual cycle initiation and control means shall be supplied for use in die setting which meets the requirements of WAC 296-24-19505(7).

(c) Following a die change, the safety distance, the proper application of supplemental safeguarding, and the slide counterbalance adjustment (if the press is equipped with a counterbalance) shall be checked and maintained by authorized persons whose qualifications include knowledge of the

safety distance, supplemental safeguarding requirements, and the manufacturer's specifications for counterbalance adjustment. Adjustment of the location of the PSDI presence sensing device shall require use of a special tool available only to the authorized persons.

(13) Operator training.

(a) The operator training required by WAC 296-24-19513(2) shall be provided to the employee before the employee initially operates the press and as needed to maintain competence, but not less than annually thereafter. It shall include instruction relative to the following items for presses used in the PSDI mode.

(i) The manufacturer's recommended test procedures for checking operation of the presence sensing device. This shall include the use of the test rod required by subsection (10)(a) of this section.

(ii) The safety distance required.

(iii) The operation, function, and performance of the PSDI mode.

(iv) The requirements for handtools that may be used in the PSDI mode.

(v) The severe consequences that can result if the operator attempts to circumvent or by-pass any of the safeguard or operating functions of the PSDI system.

(b) The employer shall certify that employees have been trained by preparing a certification record which includes the identity of the person trained, the signature of the employer or the person who conducted the training, and the date the training was completed. The certification record shall be prepared at the completion of training and shall be maintained on file for the duration of the employee's employment. The certification record shall be made available upon request to the Assistant Secretary for Occupational Safety and Health or the designated representative of the director.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 95-17-036, § 296-24-19517, filed 8/9/95, effective 9/25/95. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-19517, filed 7/20/94, effective 9/20/94; 92-17-022 (Order 92-06), § 296-24-19517, filed 8/10/92, effective 9/10/92; 88-23-054 (Order 88-25), § 296-24-19517, filed 11/14/88.]

WAC 296-24-197 Compactors. General requirements. An antirepeat device shall be installed on compactors which will prohibit the compacting of material while the gate or door is raised or open. When adjustments or clearing of jams are necessary, means shall be provided for locking out the control energy.

[Order 74-27, § 296-24-197, filed 5/7/74.]

WAC 296-24-200 Forging machines. Machines used in the forming of hot metal including hot trimming presses, forging hammers, hot forging presses, upsetters, hot bending and hot metal presses among other forging machines are regulated by sections which include WAC 296-24-200 in the subsection number.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-200, filed 1/10/91, effective 2/12/91; Order 73-5, § 296-24-200, filed 5/9/73 and Order 73-4, § 296-24-200, filed 5/7/73.]

WAC 296-24-20001 Definitions. (1) "Forging" means the product of work on metal formed to a desired shape by impact or pressure in hammers, forging machines (upsetters), presses, rolls, and related forming equipment. Forging hammers, counterblow equipment and high-energy-rate forging machines impart impact to the workpiece, while most other types of forging equipment impart squeeze pressure in shaping the stock. Some metals can be forged at room temperature, but the majority of metals are made more plastic for forging by heating.

(2) "Open framehammers (or blacksmith hammers)" mean hammers used primarily for the shaping of forgings by means of impact with flat dies. Open frame hammers generally are so constructed that the anvil assembly is separate from the operating mechanism and machine supports; it rests on its own independent foundation. Certain exceptions are forging hammers made with frame mounted on the anvil, e.g., the smaller, single-frame hammers are usually made with the anvil and frame in one piece.

(3) "Steam hammers" mean a type of drop hammer where the ram is raised for each stroke by a double-action steam cylinder and the energy delivered to the workpiece is supplied by the velocity and weight of the ram and attached upper die driven downward by steam pressure. Energy delivered during each stroke may be varied.

(4) "Gravity hammers" mean a class of forging hammer wherein energy for forging is obtained by the mass and velocity of a freely falling ram and the attached upper die. Examples: Board hammers and air-lift hammers.

(5) "Forging presses" mean a class of forging equipment wherein the shaping of metal between dies is performed by mechanical or hydraulic pressure, and usually is accomplished with a single workstroke of the press for each die station.

(6) "Trimming presses" mean a class of auxiliary forging equipment which removes flash or excess metal from a forging. This trimming operation can also be done cold, as can coining, a product sizing operation.

(7) "High-energy-rate forging machines" mean a class of forging equipment wherein high ram velocities resulting from the sudden release of a compressed gas against a free piston impart impact to the workpiece.

(8) "Forging rolls" mean a class of auxiliary forging equipment wherein stock is shaped between power driven rolls bearing contoured dies. Usually used for preforming, roll forging is often employed to reduce thickness and increase length of stock.

(9) "Ring rolls" mean a class for forging equipment used for shaping weldless rings from pierced discs or thick-walled, ring-shaped blanks between rolls which control wall thickness, ring diameter, height and contour.

(10) "Bolt-headers" mean the same as an upsetter or forging machine except that the diameter of stock fed into the machine is much smaller, i.e., commonly three-fourths inch or less.

(11) "Rivet making machines" mean the same as upsetters and bolt-headers when producing rivets with stock diameter of 1-inch or more. Rivet making with less than 1-inch diameter is usually a cold forging operation, and therefore not included in WAC 296-24-200 through 296-24-20021.

(12) "Upsetters (or forging machines, or headers)" means a type of forging equipment, related to the mechanical

press, in which the main forming energy is applied horizontally to the workpiece which is gripped and held by prior action of the dies.

[Order 73-5, § 296-24-20001, filed 5/9/73 and Order 73-4, § 296-24-20001, filed 5/7/73.]

WAC 296-24-20003 General requirements. (1) Use of lead. The safety requirements of this section apply to lead casts or other use of lead in the forge shop or die shop.

(a) Thermostatic control of heating elements shall be provided to maintain proper melting temperature and prevent overheating.

(b) Fixed or permanent lead pot installations shall be exhausted.

(c) Portable units shall be used only in areas where good, general room ventilation is provided as specified in the general occupational health standards, chapter 296-62 WAC.

(d) Personal protective equipment (gloves, goggles, aprons, and other items) shall be worn.

(e) A covered container shall be provided to store dross skimmings.

(f) Equipment shall be kept clean, particularly from accumulations of yellow lead oxide.

(2) Inspection and maintenance. It shall be the responsibility of the employer to maintain all forge shop equipment in a condition which will insure continued safe operation. This responsibility includes:

(a) Establishing periodic and regular maintenance safety checks and keeping records of these inspections.

(b) Scheduling and recording inspection of guards and point of operation protection devices at frequent and regular intervals.

(c) Training personnel for the proper inspection and maintenance of forging machinery and equipment.

(d) All overhead parts shall be fastened or protected in such a manner that they will not fly off or fall in event of failure.

(3) Hammers and presses.

(a) All hammers shall be positioned or installed in such a manner that they remain on or are anchored to foundations sufficient to support them.

(b) All presses shall be installed in such a manner that they remain where they are positioned or they are anchored to foundations sufficient to support them.

(c) Means shall be provided for disconnecting the power to the machine and for locking out or rendering cycling controls inoperable.

(d) The ram shall be blocked when dies are being changed or other work is being done on the hammer. Blocks or wedges shall be made of material the strength and construction of which should meet or exceed the specifications and dimensions shown in Table O-11.

(e) Tongs shall be of sufficient length to clear the body of the worker in case of kickback, and shall not have sharp handle ends. The worker should be instructed in the proper body position when using tongs. Tongs should be checked periodically to see that they remain at the proper hardness level for the job. When rings or equivalent devices for locking tongs are used they should be inspected periodically to insure safe condition.

(f) Oil swabs, or scale removers, or other devices to remove scale shall be provided. These devices shall be long enough to enable the employee to reach the full length of the die without placing a hand or arm between the dies.

(g) Material handling equipment shall be of adequate strength, size, and dimension to handle diesetting operations safely.

(h) A scale guard of substantial construction shall be provided at the back of every hammer, so arranged as to stop flying scale.

(i) A scale guard of substantial construction shall be provided at the back of every press, so arranged as to stop flying scale.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-20003, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-20003, filed 3/1/76; Order 73-5, § 296-24-20003, filed 5/9/73 and Order 73-4, § 296-24-20003, filed 5/7/73.]

WAC 296-24-20005 Hammers, general. (1) Keys. Die keys and shims shall be made from a grade of material that will not unduly crack or splinter, and should not project more than 2 inches in front and 4 inches in back of ram or die.

(2) Foot operated devices. All foot operated devices (i.e., treadles, pedals, bars, valves, and switches) shall be substantially and effectively protected from unintended operation.

[Order 73-5, § 296-24-20005, filed 5/9/73 and Order 73-4, § 296-24-20005, filed 5/7/73.]

WAC 296-24-20007 Presses. All manually operated valves and switches shall be clearly identified and readily accessible.

[Order 73-5, § 296-24-20007, filed 5/9/73 and Order 73-4, § 296-24-20007, filed 5/7/73.]

WAC 296-24-20009 Power-driven hammers. (1) Safety cylinder head. Every steam or airhammer shall have a safety cylinder head to act as a cushion if the rod should break or pull out of the ram.

(2) Shutoff valve. Steam hammers shall be provided with a quick closing emergency valve in the admission pipeline at a convenient location. This valve shall be closed and locked in the off position while the hammer is being adjusted, repaired, or serviced, or when the dies are being changed.

(3) Cylinder draining. Steam hammers shall be provided with a means of cylinder draining, such as a self-draining arrangement or a quick-acting drain cock.

(4) Pressure pipes. Steam or air piping shall conform to the specifications of American National Standard ANSI B31.1.0-1967, Power Piping with Addenda, ANSI B31.1.06-1971.

[Order 73-5, § 296-24-20009, filed 5/9/73 and Order 73-4, § 296-24-20009, filed 5/7/73.]

WAC 296-24-20011 Gravity hammers. (1) Air-lift hammers.

(a) Airlift hammers shall have a safety cylinder head as required in WAC 296-24-20009(1).

(b) Air-lift hammers shall have an air shutoff valve as required in WAC 296-24-20009(2) and should be conve-

niently located and distinctly marked for ease of identification.

(c) Air-lift hammers shall be provided with two drain cocks: one on main head cylinder, and one on clamp cylinder.

(d) Air piping shall conform to the specifications of the ANSI B31.1.0-1967, Power Piping with Addenda, ANSI B.31.1.06-1971.

(2) Board drophammers.

(a) A suitable enclosure shall be provided to prevent damaged or detached boards from falling. The board enclosure shall be securely fastened to the hammer.

(b) All major assemblies and fittings which can loosen and fall shall be properly secured in place.

[Order 73-5, § 296-24-20011, filed 5/9/73 and Order 73-4, § 296-24-20011, filed 5/7/73.]

WAC 296-24-20013 Forging presses. (1) Mechanical forging presses. When dies are being changed or maintenance is being performed on the press, the following shall be accomplished:

(a) The power to the press shall be locked out.

(b) The flywheel shall be at rest.

(c) The ram shall be blocked with a material the strength of which shall meet or exceed the specifications or dimensions shown in Table O-11

(2) Hydraulic forging presses. When dies are being changed or maintenance is being performed on the press, the following shall be accomplished:

(a) The hydraulic pumps and power apparatus shall be locked out.

(b) The ram shall be blocked with a material the strength of which shall meet or exceed the specifications or dimensions shown in Table O-11.

[Order 73-5, § 296-24-20013, filed 5/9/73 and Order 73-4, § 296-24-20013, filed 5/7/73.]

WAC 296-24-20015 Trimming presses. (1) Hot trimming presses. The requirements of WAC 296-24-20013(1) shall also apply to hot trimming presses.

(2) Cold trimming presses. Cold trimming presses shall be safeguarded in accordance with WAC 296-24-195 through 296-24-19507.

[Order 73-5, § 296-24-20015, filed 5/9/73 and Order 73-4, § 296-24-20015, filed 5/7/73.]

WAC 296-24-20017 Upsetters. (1) General requirements. All upsetters shall be installed so that they remain on their supporting foundations.

(2) Lockouts. Upsetters shall be provided with a means for locking out the power at its entry point to the machine and rendering its cycling controls inoperable.

(3) Manually operated controls. All manually operated valves and switches shall be clearly identified and readily accessible.

(4) Tongs. Tongs shall be of sufficient length to clear the body of the worker in case of kickback, and shall not have sharp handle ends. The worker should be instructed in the proper body position when using tongs. Tongs should be checked periodically to see that they remain at the proper hardness level for the job. When rings or equivalent devices for locking tongs are used they should be inspected periodically to assure safe condition.

(5) Changing dies. When dies are being changed, maintenance performed, or any work done on the machine, the power to the upsetter shall be locked out, and the flywheel shall be at rest.

[Order 73-5, § 296-24-20017, filed 5/9/73 and Order 73-4, § 296-24-20017, filed 5/7/73.]

WAC 296-24-20019 Other forging equipment. (1) Boltheading. The provisions of WAC 296-24-20017 shall apply to boltheading.

(2) Rivet making. The provisions of WAC 296-24-20017 shall apply to rivet making.

[Order 73-5, § 296-24-20019, filed 5/9/73 and Order 73-4, § 296-24-20019, filed 5/7/73.]

WAC 296-24-20021 Other forge facility equipment. (1) Billet shears. A positive-type lockout device for disconnecting the power to the shear shall be provided.

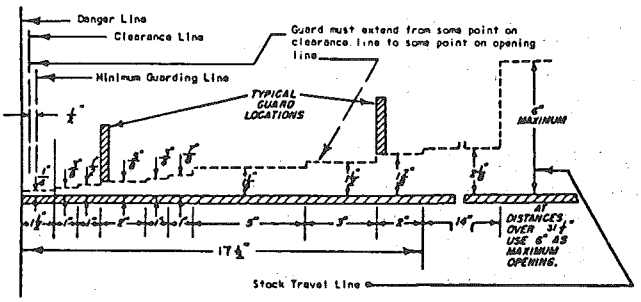
(2) Saws. Every saw shall be provided with a guard of not less than one-eighth inch sheet metal positioned to stop flying sparks. Suitable means should be provided to trap sparks below the saw. A tank of water placed below the saw is also desirable.

(3) Conveyors. Conveyor power transmission equipment shall be guarded in accordance with ANSI B20.1-1957, Safety Code for Conveyors, Cableways, and Related Equipment.

(4) Shot blast. The cleaning chamber shall have doors or guards to protect operators.

(5) Grinding. Personal protective equipment shall be used in grinding operations, and equipment shall be used and maintained in accordance with ANSI B7.1-1970, Safety Code for the Use, Care, and Protection of Abrasive Wheels, and with WAC 296-24-180 through 296-24-18009.

This table shows the distances that guards shall be positioned from the danger line in accordance with the required openings.



Explanation of above diagram:

This diagram shows the accepted safe openings between the bottom edge of a guard and feed table at various distances from the danger line (point of operation).

The "clearance line" marks the distance required to prevent contact between guard and moving parts.

The "minimum guarding line" is the distance between the infeed side of the guard and the danger line which is one-half inch from the danger line.

The various openings are such that for average size hands an operator's fingers won't reach the point of operation.

After installation of point of operation guards and before a job is released for operation a check should be made to verify that the guard will prevent the operator's hands from reaching the point of operation.

TABLE O-11
STRENGTH AND DIMENSIONS FOR WOOD RAM PROPS

Size of timber inches[1]	Square inches in cross section	Minimum allowable crushing strength parallel to grain, p.s.i.[2]	Maximum static load within short column range[3]	Safety factor	Maximum recommended weight of forging hammer for timber used	Maximum allowable length of timber, inches
4 x 4	16	5,000	80,000	10	8,000	44
6 x 6	36	5,000	180,000	10	18,000	66
8 x 8	64	5,000	320,000	10	32,000	88
10 x 10	100	5,000	500,000	10	50,000	100
12 x 12	144	5,000	720,000	10	72,000	132

[1] Actual dimension.

[2] Adapted from U.S. Department of Agriculture Technical Bulletin 479. Hardwoods recommended are those whose ultimate crushing strengths in compression parallel to grain are 5,000 p.s.i. (pounds per square inch) or greater.

[3] Slenderness ratio formula for short columns is L/d=11, where L=length of timber in inches and d=least dimension in inches; this ratio should not exceed 11.

[Order 73-5, § 296-24-20021, filed 5/9/73 and Order 73-4, § 296-24-20021, filed 5/7/73.]

WAC 296-24-205 Safeguarding power transmission parts.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-205, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-205, filed 5/9/73 and Order 73-4, § 296-24-205, filed 5/7/73.]

WAC 296-24-20501 What is an employer's duty to protect employees from hazards of power transmission parts?

(1) An employer must protect employees from the hazards of power transmission parts created by:

(a) Moving objects;

(b) Flying objects;

(c) Falling objects; and

(d) Inherently hazardous surfaces, such as sharp edges, burrs, and protruding nails and bolts.

"Power transmission parts" means the mechanical components of a piece of equipment that, together with a source of power (sometimes referred to as a prime mover), provide the motion to a part of a machine or piece of equipment.

(2) An employer must use one or more of the methods of safeguarding listed below to eliminate the hazards described in subsection (1) of this section:

(a) Guard;

(b) Device;

(c) Safe distance; or

(d) Safe location.

Note: Guardrails are not generally accepted as a safeguarding method, but see WAC 296-24-20513 for exceptions when guardrails may be used.

Note: See WAC 296-24-20521(1) for a list of power transmission belts that are exempt from the requirements of this section.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20501, filed 5/4/98 and 12/2/98, effective 10/1/99. Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-20501, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-20501, filed 5/9/73 and Order 73-4, § 296-24-20501, filed 5/7/73.]

WAC 296-24-20503 What requirements must guards meet?

To safeguard using a guard, an employer must ensure that the guard:

(1) Prevents any part of an employee's body from reaching the hazard;

(2) Prevents objects from flying out toward, or falling onto, an employee;

(3) Is made of durable material designed to withstand the forces to which it could be exposed;

(4) Is securely fastened at least every three feet to a fixed part of the machine it safeguards or the building structure; and

(5) Creates no additional hazards such as from sharp edges or from motion between it and moving parts.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20503, filed 5/4/98 and 12/2/98, effective 10/1/99. Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-20503, filed 1/11/90, effective 2/26/90; 89-11-035 (Order 89-03), § 296-24-20503, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-20503, filed 5/9/73 and Order 73-4, § 296-24-20503, filed 5/7/73.]

WAC 296-24-20505 What requirements must devices meet?

To safeguard using a device, an employer must ensure that it:

(1) Stops motion of the power transmission parts before an employee is exposed to the hazard of coming into contact with a moving part; and

(2) Prevents the machine from restarting unless an employee manually resets it.

Note: Emergency stop controls or warning signals are not considered devices that, by themselves, effectively safeguard power transmission parts.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20505, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20505, filed 5/9/73 and Order 73-4, § 296-24-20505, filed 5/7/73.]

WAC 296-24-20507 What requirements must safeguarding by distance meet?

To safeguard by distance, an employer must ensure that:

(1) The vertical distance between power transmission parts and a floor or walking or working surface is more than seven feet;

(2) The power transmission parts are supported so they will not fall on an employee below; and

(3) No parts or material may fall on an employee below.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20507, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20507, filed 5/9/73 and Order 73-4, § 296-24-20507, filed 5/7/73.]

WAC 296-24-20509 What requirements must safeguarding by location meet?

To safeguard by location, an employer must ensure that the location of power transmission parts eliminates the possibility that any part of an employee's body can inadvertently reach the hazard.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20509, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20509, filed 5/9/73 and Order 73-4, § 296-24-20509, filed 5/7/73.]

WAC 296-24-20511 What other responsibilities beyond safeguarding does an employer have to protect employees from power transmission parts? (1) An employer must remove, make flush, or guard with metal covers all projections on moving parts, including keys, setscrews, bolts, and nuts.

(a) An employer is not required to remove, make flush, or guard keys or setscrews:

(i) Within an enclosure;

(ii) Below the rim of a pulley that is less than twenty inches in diameter; or

(iii) Where employee contact is not possible.

(b) An employer must fill or cover unused keyways.

(c) An employer must use only cylindrical revolving collars and ensure that screws or bolts used in collars do not project beyond the outside of the collar.

(2) An employer must ensure that power transmission parts are inspected at least once every sixty days for compliance with this standard, and are kept in good working condition at all times. An employer's inspection must ensure that:

(a) A pulley with a crack or broken piece is not used.

(b) All bolts and screws holding power transmission equipment together or supporting the equipment are tight.

(c) Belts, lacings, and fasteners are in good repair.

(d) Power transmission parts are kept in proper alignment.

(3) An employer may safeguard any location used exclusively for power transmission parts by ensuring that the location:

(a) Is locked;

(b) Prohibits unauthorized entrance;

(c) Has a passageway with an effective vertical clearance of at least five feet six inches;

(d) Is well lit;

(e) Has a dry, level, firm floor; and

(f) Has a safe, well-marked route for an authorized employee to follow.

(4) If it is necessary to lubricate power transmission parts while the parts are moving, an employer must ensure that the tool an oiler uses, such as an oil can or grease gun, has a long spout to keep the oiler's hands away from the hazard.

(a) An oiler must wear closely fitting clothing.

(b) Drip cups and pans must be securely fastened.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20511, filed 5/4/98 and 12/2/98, effective 10/1/99. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-20511, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-20511, filed 5/9/73 and Order 73-4, § 296-24-20511, filed 5/7/73.]

WAC 296-24-20513 When may a guardrail be used as a safeguard? (1) An employer may use a guardrail as a safeguard for:

(a) A flywheel, when the guardrail is at least fifteen inches from the rim;

(b) Cranks and connecting rods;

(c) Tail rods and extension piston rods, when the guardrail is at least fifteen inches from the fully extended end of the rod;

(d) A horizontal belt in a power generating room;

(e) A clutch, cutoff coupling, or clutch pulley in an engine room occupied only by an engine room attendant; or

(f) A runway used only for oiling, maintenance, running adjustment, or repair work.

(2) An employer must ensure that a guardrail:

(a) Has a toeboard at least four inches high; and

(b) Complies with WAC 296-24-75011.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20513, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20513, filed 5/9/73 and Order 73-4, § 296-24-20513, filed 5/7/73.]

WAC 296-24-20515 What are the additional requirements for flywheels? (1) When other safeguarding methods cannot be used, an employer must safeguard a spoked flywheel with a smooth rim five feet or less in diameter by using a disk guard. The disk must cover the flywheel spokes on the exposed side, and create a smooth surface and edge.

(a) An open space, a maximum of four inches wide, between the outside edge of the disk and the rim of the wheel may exist to turn the wheel over.

(b) A key or other uncovered projection must be cut off.

(2) An employer may provide an adjustable guard at the flywheel of a gas or diesel engine for starting the engine or for a running adjustment. A slot opening for a jack bar is permitted.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20515, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20515, filed 5/9/73 and Order 73-4, § 296-24-20515, filed 5/7/73.]

WAC 296-24-20517 What are the additional requirements for shafting? (1) An employer must secure shafting against excessive endwise movement.

(2) An employer must maintain shafting so that it is free from excess oil or grease and pitting from corrosion.

(3) An employer may safeguard shafting under a bench machine by using a guard that extends to:

(a) Within six inches of the underside of the table or the floor; and

(b) At least two inches beyond the shafting.

(4) An employer must ensure that projecting shaft ends:

(a) Have a smooth edge and project no more than one-half the diameter of the shaft; or

(b) Are guarded by a nonrotating cap or safety sleeve.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20517, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20517, filed 5/9/73 and Order 73-4, § 296-24-20517, filed 5/7/73.]

WAC 296-24-20519 What are the additional requirements for pulleys? (1) An employer must ensure that a pulley is designed and balanced for the speed at which it operates.

(2) An employer may not use a composition or wood pulley where it is likely to deteriorate in the workplace.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20519, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20519, filed 5/9/73 and Order 73-4, § 296-24-20519, filed 5/7/73.]

WAC 296-24-20521 What are the additional requirements for belt, rope, and chain drives? (1) An employer is not required to safeguard belts operating at two hundred fifty linear feet per minute or less that are:

(a) Flat and one inch wide or less; or

(b) Flat and between one to two inches wide with no metal lacings or fasteners; or

(c) Round and one-half inch or less in diameter; or

(d) Single strand v-belts thirteen thirty-seconds inch wide or less.

(2) An employer may use a nip point belt and pulley guard on a vertical or inclined belt that:

(a) Is two and one-half inches wide or less;

(b) Is running at a speed of less than one thousand feet per minute; and

(c) Is free from metal lacings or fastenings.

"Nip-point belt and pulley guard" means a device that encloses the pulley and has rounded or rolled edge slots for the belt to pass through.

(3) When the space between the upper and lower runs of a horizontal belt would allow an employee to pass between them, an employer may:

(a) Guard along the upper run;

(b) Provide a platform over the lower run; and

(c) Provide a railing over the lower run that will prevent employees from leaving the platform.

(d) In a power generating room, only the lower run of a horizontal belt must be guarded.

(4) An employer must use a quarter-twist belt with an idler on a drive that runs in both directions.

(5) An employer must apply a dressing to a moving belt or rope where the belt or rope leaves the pulley.

(6) An employer may not safeguard by distance or location an overhead belt located more than seven feet above a floor or platform when:

(a) The belt is located over a passageway or work space and travels at a speed of one thousand eight hundred feet or more per minute; or

(b) The distance between the centers of its pulleys is ten feet or more; or

(c) The belt is wider than eight inches.

(7) An employer must ensure that a belt shifted by hand is not fastened with metal or other material that creates a hazard.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20521, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20521, filed 5/9/73 and Order 73-4, § 296-24-20521, filed 5/7/73.]

WAC 296-24-20523 What are the additional requirements for gears? An employer is not required to safeguard hand-operated gears used only to adjust machine parts that do not continue to move when not being turned by hand.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20523, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20523, filed 5/9/73 and Order 73-4, § 296-24-20523, filed 5/7/73.]

WAC 296-24-20525 What are the additional requirements for belt shifters? (1) An employer must ensure that the equipment listed below, if installed after August 17, 1971, has a permanent, mechanical belt shifter:

(a) Tight and loose pulleys; and

(b) A cone pulley belt.

(2) An employer must ensure that a belt shifter or clutch handle:

(a) Safeguards the nip point;

(b) Is rounded;

(c) Is within easy reach, but minimizes the chance of accidental contact with the operator; and

(d) Is located over a machine or bench, or has handles cut off six feet six inches above floor level.

(3) No belt shifter is required if:

(a) The belt is endless or laced with rawhide; and

(b) The nip point of the belt and pulley is safeguarded by a nip point guard in front of the cones;

(i) The guard must extend at least to the top of the largest step of the cone; and

(ii) The guard must be formed to show the contour of the cone.

(4) An employer must ensure that each belt shifter and clutch handle of the same type in a workplace moves in the same direction to stop a machine, i.e., either all right or all left.

(a) A friction clutch handle on a countershaft carrying two clutch pulleys with open and crossed belts is not required to move in the same direction; and

(b) The clutch handle must have three positions with the machine at rest when the clutch handle is in the center position.

(5) An employer must ensure that a belt tightener used to activate machinery:

(a) Is substantially constructed and securely fastened;

(b) Has bearings securely capped;

(c) Has a mechanism to prevent it from falling; and

(d) Is securely held in the "off" position by gravity, or by an automatic mechanism that must be released by hand.

(6) An employer may not use a belt pole to shift a belt on and off a fixed pulley. When a belt shifter cannot be used, an employer may use a belt pole that is:

(a) Smooth; and

(b) Large enough for an employee to grasp securely.

Note: A belt pole is also known as a "belt shipper" or "shipper pole."

(7) An employer must use a substantial belt perch, such as a bracket, roller, etc., to safely shift an idle belt away from the shaft when a loose pulley or idler is not practical.

(8) An employer must ensure that a bearing support immediately adjacent to a friction clutch or cutoff coupling has self-lubricating bearings requiring infrequent attention.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20525, filed 5/4/98 and 12/2/98, effective 10/1/99. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-20525, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-20525, filed 3/1/76; Order 73-5, § 296-24-20525, filed 5/9/73 and Order 73-4, § 296-24-20525, filed 5/7/73.]

WAC 296-24-20527 What are the alternate safeguarding requirements that apply to sewing machines?

No guard is required for a light or medium duty sewing machine if:

(1) It uses either a flat or a round belt without metal lacings and fasteners;

(2) The belt is located above the table top;

(3) The machine is not used to sew heavy materials such as leather, canvas, denim, or vinyl;

(4) The operators' hands are not in, near, or on the wheel, nip point, or belt area when the machine is operating;

(5) The distance between the area where the operator is holding and feeding material with both hands and the belt or wheel locations is great enough that the operator is not exposed to a motion hazard; and

(6) The table top is designed so that employees near the machine are not exposed to motion hazards while they work or as they pass by.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20527, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20527, filed 5/9/73 and Order 73-4, § 296-24-20527, filed 5/7/73.]

WAC 296-24-20529 Reserve.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20529, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 73-5, § 296-24-20529, filed 5/9/73 and Order 73-4, § 296-24-20529, filed 5/7/73.]

WAC 296-24-20531 Reserve.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20531, filed 5/4/98 and 12/2/98, effective 10/1/99; Order 76-6, § 296-24-20531, filed 3/1/76; Order 73-5, § 296-24-20531, filed 5/9/73 and Order 73-4, § 296-24-20531, filed 5/7/73.]

WAC 296-24-20533 Reserve.

[Statutory Authority: RCW 49.17.010, [49.17.]040 and [49.17.]050. 98-10-073 and 98-24-120, § 296-24-20533, filed 5/4/98 and 12/2/98, effective 10/1/99. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-20533, filed 11/13/80; Order 73-5, § 296-24-20533, filed 5/9/73 and Order 73-4, § 296-24-20533, filed 5/7/73.]

WAC 296-24-20699 Appendices A through D are added to Part C of chapter 296-24 WAC, to describe the federal procedures for third-party validation and certification of presence sensing devices on mechanical power presses.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-20699, filed 11/14/88.]

WAC 296-24-20700 Appendix A to WAC 296-24-195.

Mandatory requirements for certification/validation of safety systems for presence sensing device initiation of mechanical power presses.

(1) Purpose. The purpose of the certification/validation of safety systems for presence sensing device initiation (PSDI) of mechanical power presses is to ensure that the safety systems are designed, installed, and maintained in accordance with all applicable requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A.

(2) General.

(a) The certification/validation process shall utilize an independent third-party validation organization recognized by OSHA in accordance with the requirements specified in WAC 296-24-20720 Appendix C.

(b) While the employer is responsible for assuring that the certification/validation requirements in WAC 296-24-19517(11) are fulfilled, the design certification of PSDI safety systems may be initiated by manufacturers, employers, and/or their representatives. The term "manufacturers" refers to the manufacturer of any of the components of the safety system. An employer who assembles a PSDI safety system would be a manufacturer as well as employer for purposes of this standard and Appendix.

(c) The certification/validation process includes two stages. For design certification, in the first stage, the manufacturer (which can be an employer) certifies that the PSDI safety system meets the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A, based on appropriate design criteria and tests. In the second stage, the OSHA-recognized third-party validation organization validates that the PSDI safety system meets the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A and the manufacturer's certification by reviewing the manufacturer's design and test data and performing any additional reviews required by this standard or which it believes appropriate.

(d) For installation certification/validation and annual recertification/revalidation, in the first stage the employer certifies or recertifies that the employer is installing or utilizing a PSDI safety system validated as meeting the design requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A by an OSHA-recognized third-party validation organization and that the installation, operation and maintenance meet the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A. In the second stage, the OSHA-recognized third-party validation organization validates or revalidates that the PSDI safety system installation meets the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A and the employer's certification, by reviewing that the PSDI safety system has been certified; the employer's certification, designs and tests, if any; the installation, operation, maintenance and training; and by performing any additional tests and reviews which the validation organization believes is necessary.

(3) Summary. The certification/validation of safety systems of PSDI shall consider the press, controls, safeguards, operator, and environment as an integrated system which shall comply with all of the requirements in WAC 296-24-19503 through 296-24-19517 and this Appendix A. The certification/validation process shall verify that the safety system complies with the OSHA safety requirements as follows:

(a) Design certification/validation.

(i) The major parts, components, and subsystems used shall be defined by part number or serial number, as appropriate, and by manufacturer to establish the configuration of the system.

(ii) The identified parts, components, and subsystems shall be certified by the manufacturer to be able to withstand the functional and operational environments of the PSDI safety system.

(iii) The total system design shall be certified by the manufacturer as complying with all requirements in WAC 296-24-19503 through 296-24-19517 and this Appendix A.

(iv) The third-party validation organization shall validate the manufacturer's certification under (a)(i) and (ii) of this subsection.

(b) Installation certification/validation.

(i) The employer shall certify that the PSDI safety system has been design certified and validated, that the installation meets the operational and environmental requirements specified by the manufacturer, that the installation drawings are accurate, and that the installation meets the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A. (The operational and installation requirements of the PSDI safety system may vary for different applications.)

(ii) The third-party validation organization shall validate the employer's certifications that the PSDI safety system is design certified and validated, that the installation meets the installation and environmental requirements specified by the manufacturer, and that the installation meets the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A.

(c) Recertification/revalidation.

(i) The PSDI safety system shall remain under certification/validation for the shorter of one year or until the system hardware is changed, modified or refurbished, or operating conditions are changed (including environmental, application or facility changes), or a failure of a critical component has occurred.

(ii) Annually, or after a change specified in (c)(i) of this subsection, the employer shall inspect and recertify the installation as meeting the requirements set forth under subsection (3)(b) of this section, Installation certification/validation.

(iii) The third-party validation organization, annually or after a change specified in (c)(i) of this subsection, shall validate the employer's certification that the requirements of subsection (b) of this section, Installation certification/validation have been met.

Note: Such changes in operational conditions as die changes of press relocations not involving disassembly or revision to the safety system would not require recertification/revalidation.

(4) Certification/validation requirements.

(a) General design certification/validation requirements.

(i) Certification/validation program requirements. The manufacturer shall certify and the OSHA-recognized third-party validation organization shall validate that:

(A) The design of components, subsystems, software, and assemblies meets OSHA performance requirements and are ready for the intended use; and

(B) The performance of combined subsystems meets OSHA's operational requirements.

(ii) Certification/validation program level of risk evaluation requirements. The manufacturer shall evaluate and certify, and the OSHA-recognized third-party validation organization shall validate, the design and operation of the safety system by determining conformance with the following:

(A) The safety system shall have the ability to sustain a single failure or a single operating error and not cause injury to personnel from point of operation hazards. Acceptable design features shall demonstrate, in the following order of precedence, that:

(I) No single failure points may cause injury; or

(II) Redundancy, and comparison and/or diagnostic checking, exist for the critical items that may cause injury, and the electrical, electronic, electromechanical and mechanical parts and components are selected so that they can withstand operational and external environments. The safety factor and/or derated percentage shall be specifically noted and complied with.

(B) The manufacturer shall design, evaluate, test and certify, and the third-party validation organization shall evaluate and validate, that the PSDI safety system meets appropriate requirements in the following areas.

(I) Environmental limits

-Temperature

-Relative humidity

-Vibration

-Fluid compatibility with other materials

(II) Design limits

-Power requirements

-Power transient tolerances

-Compatibility of materials used

-Material stress tolerances and limits

-Stability to long term power fluctuations

-Sensitivity to signal acquisition

-Repeatability of measured parameter without inadvertent initiation of a press stroke

-Operational life of components in cycles, hours, or both

-Electromagnetic tolerance to:

•Specific operational wave lengths; and

•Externally generated wave lengths

•New design certification/validation. Design certification/validation for a new safety system, i.e., a new design or new integration of specifically identified components and subsystems, would entail a single certification/ validation which would be applicable to all identical safety systems. It would not be necessary to repeat the tests on individual safety systems of the same manufacture or design. Nor would it be necessary to repeat these tests in the case of modifications where determined by the manufacturer and validated by the third-party validation organization to be equivalent by similarity analysis. Minor modifications not affecting the safety of the system may be made by the manufacturer without revalidation.

(III) Substantial modifications would require testing as a new safety system, as deemed necessary by the validation organization.

(b) Additional detailed design certification/validation requirements.

(i) General. The manufacturer or the manufacturer's representative shall certify to and submit to an OSHA-recognized third-party validation organization the documentation necessary to demonstrate that the PSDI safety system design is in full compliance with the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A, as applicable, by means of analysis, tests, or combination of both, establishing that the following additional certification/validation requirements are fulfilled.

(ii) Reaction times. For the purpose of demonstrating compliance with the reaction time required by WAC 296-24-19517, the tests shall use the following definitions and requirements:

(A) "Reaction time" means the time, in seconds, it takes the signal, required to activate/deactivate the system, to travel through the system, measured from the time of signal initiation to the time the function being measured is completed.

(B) "Full stop" or "no movement of the slide or ram" means when the crankshaft rotation has slowed to two or less revolutions per minute, just before stopping completely.

(C) "Function completion" means for, electrical, electromechanical and electronic devices, when the circuit produces a change of state in the output element of the device.

(D) When the change of state is motion, the measurement shall be made at the completion of the motion.

(E) The generation of the test signal introduced into the system for measuring reaction time shall be such that the initiation time can be established with an error of less than 0.5 percent of the reaction time measured.

(F) The instrument used to measure reaction time shall be calibrated to be accurate to within 0.001 second.

(iii) Compliance with WAC 296-24-19517 (2)(b).

(A) For compliance with these requirements, the average value of the stopping time, Ts, shall be the arithmetic mean of at least twenty-five stops for each stop angle initiation measured with the brake and/or clutch unused, fifty percent worn, and ninety percent worn. The recommendations of the brake system manufacturer shall be used to simulate or estimate the brake wear. The manufacturer's recommended minimum lining depth shall be identified and documented, and an evaluation made that the minimum depth will not be exceeded before the next (annual) recertification/revalidation. A correlation of the brake and/or clutch degradation based on the above tests and/or estimates shall be made and documented. The results shall document the conditions under which the brake and/or clutch will and will not comply with the requirement. Based upon this determination, a scale shall be developed to indicate the allowable ten percent of the stopping time at the top of the stroke for slide or ram overtravel due to brake wear. The scale shall be marked to indicate that brake adjustment and/or replacement is required. The explanation and use of the scale shall be documented.

(B) The test specification and procedure shall be submitted to the validation organization for review and validation prior to the test. The validation organization representative shall witness at least one set of tests.

(iv) Compliance with WAC 296-24-19517 (5)(c) and (9)(f). Each reaction time required to calculate the safety distance, including the brake monitor setting, shall be documented in separate reaction time tests. These tests shall specify the acceptable tolerance band sufficient to assure that tolerance build-up will not render the safety distance unsafe.

(A) Integrated test of the press fully equipped to operate in the PSDI mode shall be conducted to establish the total system reaction time.

(B) Brakes which are the adjustable type shall be adjusted properly before the test.

(v) Compliance with WAC 296-24-19517 (2)(c).

(A) Prior to conducting the brake system test required by WAC 296-24-19517 (2)(b), a visual check shall be made of the springs. The visual check shall include a determination that the spring housing or rod does not show damage sufficient to degrade the structural integrity of the unit, and the spring does not show any tendency to interleave.

(B) Any detected broken or unserviceable springs shall be replaced before the test is conducted. The test shall be considered successful if the stopping time remains within that which is determined by WAC 296-24-19517 (9)(f) for the safety distance setting. If the increase in press stopping time exceeds the brake monitor setting limit defined in WAC 296-24-19517 (5)(c), the test shall be considered unsuccessful, and the cause of the excessive stopping time shall be investigated. It shall be ascertained that the springs have not been broken and that they are functioning properly.

(vi) Compliance with WAC 296-24-19517(7).

(A) Tests which are conducted by the manufacturers of electrical components to establish stress, life, temperature and loading limits must be tests which are in compliance with the provisions of chapter 296-24 WAC Part L.

(B) Electrical and/or electronic cards or boards assembled with discreet components shall be considered a subsystem and shall require separate testing that the subsystems do not degrade in any of the following conditions:

(I) Ambient temperature variation from -20°C to +50°C.

(II) Ambient relative humidity of ninety-nine percent.

(III) Vibration of 45G for one millisecond per stroke when the item is to be mounted on the press frame.

(IV) Electromagnetic interference at the same wavelengths used for the radiation sensing field, at the power line frequency fundamental and harmonics, and also from autogenous radiation due to system switching.

(V) Electrical power supply variations of ±15 percent.

(C) The manufacturer shall specify the test requirements and procedures from existing consensus tests in compliance with the provisions of chapter 296-24 WAC Part L.

(D) Tests designed by the manufacturer shall be made available upon request to the validation organization. The validation organization representative shall witness at least one set of each of these tests.

(vii) Compliance with WAC 296-24-19517 (9)(d).

(A) The manufacturer shall design a test to demonstrate that the prescribed minimum object sensitivity of the presence sensing device is met.

(B) The test specifications and procedures shall be made available upon request to the validation organization.

(viii) Compliance with WAC 296-24-19517 (9)(k).

(A) The manufacturer shall design a test(s) to establish the hand tool extension diameter allowed for variations in minimum object sensitivity response.

(B) The test(s) shall document the range of object diameter sizes which will produce both single and double break conditions.

(C) The test(s) specifications and procedures shall be made available upon request to the validation organization.

(ix) Integrated tests certification/validation.

(A) The manufacturer shall design a set of integrated tests to demonstrate compliance with the following requirements:

WAC 296-24-19517 (6)(b), (c), (d), (e), (f), (g), (h), (i), (j), (k), (l), (m), (n), and (o).

(B) The integrated test specifications and procedures shall be made available to the validation organization.

(x) Analysis. The manufacturer shall submit to the validation organization the technical analysis such as hazard analysis, failure mode and effect analysis, stress analysis, component and material selection analysis, fluid compatibility, and/or other analyses which may be necessary to demonstrate compliance with the following requirements:

WAC 296-24-19517 (8)(a) and (b); (2)(b) and (c); (3)(a)(i) and (iv) and (b); (5)(a), (b) and (c); (6)(a), (c), (d), (f), (g), (h), (i), (j), (k), (l), (m), (n), (o), and (p); (7)(a) and (b); (9)(d), (f), (i), (j) and (k); (10)(a) and (b).

(xi) Types of tests acceptable for certification/validation.

(A) Test results obtained from development testing may be used to certify/validate the design.

(B) The test results shall provide the engineering data necessary to establish confidence that the hardware and software will meet specifications, the manufacturing process has adequate quality control and the data acquired was used to establish processes, procedures, and test levels supporting subsequent hardware design, production, installation and maintenance.

(xii) Validation for design certification/validation. If, after review of all documentation, tests, analyses, manufacturer's certifications, and any additional tests which the third-party validation organization believes are necessary, the third-party validation organization determines that the PSDI safety system is in full compliance with the applicable requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A, it shall validate the manufacturer's certification that it so meets the stated requirements.

(c) Installation certification/validation requirements.

(i) The employer shall evaluate and test the PSDI system installation, shall submit to the OSHA-recognized third-party validation organization the necessary supporting documentation, and shall certify that the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A have been met and that the installation is proper.

(ii) The OSHA-recognized third-party validation organization shall conduct tests, and/or review and evaluate the employer's installation tests, documentation and representations. If it so determines, it shall validate the employer's certification that the PSDI safety system is in full conformance with all requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A.

(d) Recertification/revalidation requirements.

(i) A PSDI safety system which has received installation certification/validation shall undergo recertification/revalidation the earlier of:

(A) Each time the systems hardware is significantly changed, modified, or refurbished;

(B) Each time the operational conditions are significantly changed (including environmental, application or facility changes, but excluding such changes as die changes or press relocations not involving revision to the safety system);

(C) When a failure of a significant component has occurred or a change has been made which may affect safety; or

(D) When one year has elapsed since the installation certification/validation or the last recertification/revalidation.

(ii) Conduct of recertification/revalidation. The employer shall evaluate and test the PSDI safety system installation, shall submit to the OSHA-recognized third-party validation organization the necessary supporting documentation, and shall recertify that the requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A are being met. The documentation shall include, but not be limited to, the following items:

(A) Demonstration of a thorough inspection of the entire press and PSDI safety system to ascertain that the installation, components and safeguarding have not been changed, modified or tampered with since the installation certification/validation or last recertification/revalidation was made.

(B) Demonstrations that such adjustments as may be needed (such as to the brake monitor setting) have been accomplished with proper changes made in the records and on such notices as are located on the press and safety system.

(C) Demonstration that review has been made of the reports covering the design certification/validation, the installation certification/validation, and all recertification/revalidation, in order to detect any degradation to an unsafe condition, and that necessary changes have been made to restore the safety system to previous certification/validation levels.

(iii) The OSHA-recognized third-party validation organization shall conduct tests, and/or review and evaluate the employer's installation, tests, documentation and representations. If it so determines, it shall revalidate the employer's recertification that the PSDI system is in full conformance with all requirements of WAC 296-24-19503 through 296-24-19517 and this Appendix A.

[Statutory Authority: Chapter 49.17 RCW. 92-17-022 (Order 92-06), § 296-24-20700, filed 8/10/92, effective 9/10/92; 91-24-017 (Order 91-07), § 296-24-20700, filed 11/22/91, effective 12/24/91; 90-09-026 (Order 90-01), § 296-24-20700, filed 4/10/90, effective 5/25/90; 88-23-054 (Order 88-25), § 296-24-20700, filed 11/14/88.]

WAC 296-24-20710 Appendix B to WAC 296-24-195. Nonmandatory guidelines for certification/validation of safety systems for presence sensing device initiation of mechanical power presses.

(1) Objectives. This Appendix provides employers, manufacturers, and their representatives, with nonmandatory guidelines for use in developing certification documents. Employers and manufacturers are encouraged to recommend other approaches if there is a potential for improving safety and reducing cost. The guidelines apply to certification/validation activity from design evaluation through the completion of the installation test and the annual recertification/revalidation tests.

(2) General guidelines.

(a) The certification/validation process should confirm that hazards identified by hazard analysis, (HA), failure mode effect analyses (FMEA), and other system analyses have

been eliminated by design or reduced to an acceptable level through the use of appropriate design features, safety devices, warning devices, or special procedures. The certification/validation process should also confirm that residual hazards identified by operational analysis are addressed by warning, labeling safety instructions or other appropriate means.

(b) The objective of the certification/validation program is to demonstrate and document that the system satisfies specification and operational requirements for safe operations.

(3) Quality control. The safety attributes of a certified/validated PSDI safety system are more likely to be maintained if the quality of the system and its parts, components and subsystem is consistently controlled. Each manufacturer supplying parts, components, subsystems, and assemblies needs to maintain the quality of the product, and each employer needs to maintain the system in a nondegraded condition.

(4) Analysis guidelines.

(a) Certification/validation of hardware design below the system level should be accomplished by test and/or analysis.

(b) Analytical methods may be used in lieu of, in combination with, or in support of tests to satisfy specification requirements.

(c) Analyses may be used for certification/validation when existing data are available or when test is not feasible.

(d) Similarity analysis may be used in lieu of tests where it can be shown that the article is similar in design, manufacturing process, and quality control to another article that was previously certified/validated in accordance with equivalent or more stringent criteria. If previous design, history and application are considered to be similar, but not equal to or more exacting than earlier experiences, the additional or partial certification/validation tests should concentrate on the areas of changed or increased requirements.

(5) Analysis reports.

(a) The analysis reports should identify:

(i) The basis for the analysis;

(ii) The hardware or software items analyzed;

(iii) Conclusions;

(iv) Safety factors; and

(v) Limit of the analysis.

The assumptions made during the analysis should be clearly stated and a description of the effects of these assumptions on the conclusions and limits should be included.

(b) Certification/validation by similarity analysis reports should identify, in addition to the above, application of the part, component or subsystem for which certification/validation is being sought as well as data from previous usage establishing adequacy of the item. Similarity analysis should not be accepted when the internal and external stresses on the item being certified/validated are not defined.

(c) Usage experience should also include failure data supporting adequacy of the design.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-20710, filed 11/14/88.]

WAC 296-24-20720 Appendix C to WAC 296-24-195. Mandatory requirements for OSHA recognition of third-party validation organizations for the PSDI standard.

(1) This appendix prescribes mandatory requirements and procedures for OSHA recognition of third-party validation organizations to validate employer and manufacturer certifications that their equipment and practices meet the requirements of the PSDI standard. The scope of the Appendix includes the three categories of certification/validation required by the PSDI standard: Design certification/validaion, installation certification/validation, and annual recertification/revalidation. If further detailing of these provisions will assist the validation organization or OSHA in this activity, this detailing will be done through appropriate OSHA program directives.

(2) Procedure for OSHA recognition of validation organizations.

(a) Applications.

(i) Eligibility.

(A) Any person or organization considering itself capable of conducting a PSDI-related third-party validation function may apply for OSHA recognition.

(B) However, in determining eligibility for a foreign-based third-party validation organization, OSHA shall take into consideration whether there is reciprocity of treatment by the foreign government after consultation with relevant United States government agencies.

(ii) Content of application.

(A) The application shall identify the scope of the validation activity for which the applicant wishes to be recognized, based on one of the following alternatives:

(I) Design certification/validation, installation certification/validation, and annual recertification/revalidation;

(II) Design certification/validation only; or

(III) Installation/certification/validation and annual recertification/revalidation.

(B) The application shall provide information demonstrating that it and any validating laboratory utilized meet the qualifications set forth in subsection (3) of this section.

(C) The applicant shall provide information demonstrating that it and any validating laboratory utilized meet the program requirements set forth in subsection (4) of this section.

(D) The applicant shall identify the test methods it or the validating laboratory will use to test or judge the components and operations of the PSDI safety system required to be tested by the PSDI standard and WAC 296-24-20700, Appendix A, and shall specify the reasons the test methods are appropriate.

(E) The applicant may include whatever enclosures, attachments, or exhibits the applicant deems appropriate. The application need not be submitted on a federal form.

(F) The applicant shall certify that the information submitted is accurate.

(iii) Filing office location. The application shall be filed with: PSDI Certification/Validation Program, Office of Variance Determination, Occupational Safety and Health Administration, U.S. Department of Labor, Room N3653, 200 Constitution Avenue, N.W., Washington, DC 20210.

(iv) Amendments and withdrawals.

(A) An application may be revised by an applicant at any time prior to the completion of the final staff recommendation.

(B) An application may be withdrawn by an applicant, without prejudice, at any time prior to the final decision by the assistant secretary in (b)(viii)(B)(IV) of this subsection.

(b) Review and decision process.

(i) Acceptance and field inspection. All applications submitted will be accepted by OSHA, and their receipt acknowledged in writing. After receipt of an application, OSHA may request additional information if it believes information relevant to the requirements for recognition have been omitted. OSHA may inspect the facilities of the third-party validation organization and any validating laboratory, and while there shall review any additional documentation underlying the application. A report shall be made of each field inspection.

(ii) Requirements for recognition. The requirements for OSHA recognition of a third-party validation organization for the PSDI standard are that the program has fulfilled the requirements of subsection (3) of this section for qualifications and of subsection (4) of this section for program requirements, and the program has identified appropriate test and analysis methods to meet the requirements of the PSDI standard and WAC 296-24-20700, Appendix A.

(iii) Preliminary approval. If, after review of the application, any additional information, and the inspection report, the applicant and any validating laboratory appear to have met the requirements for recognition, a written recommendation shall be submitted by the responsible OSHA personnel to the assistant secretary to approve the application with a supporting explanation.

(iv) Preliminary disapproval. If, after review of the application, additional information, and inspection report, the applicant does not appear to have met the requirements for recognition, the director of the PSDI certification/validation program shall notify the applicant in writing, listing the specific requirements of this Appendix which the applicant has not met, and the reasons.

(v) Revision of application. After receipt of a notification of preliminary disapproval, the applicant may submit a revised application for further review by OSHA pursuant to (b) of this subsection or may request that the original application be submitted to the assistant secretary with a statement of reasons supplied by the applicant as to why the application should be approved.

(vi) Preliminary decision by assistant secretary.

(A) The assistant secretary, or a special designee for this purpose, will make a preliminary decision whether the applicant has met the requirements for recognition based on the completed application file and the written staff recommendation, as well as the statement of reasons by the applicant if there is a recommendation of disapproval.

(B) This preliminary decision will be sent to the applicant and subsequently published in the federal register.

(vii) Public review and comment period.

(A) The federal register notice of preliminary decision will provide a period of not less than sixty calendar days for the written comments on the applicant's fulfillment of the requirements for recognition. The application, supporting documents, staff recommendation, statement of applicant's reasons, and any comments received, will be available for public inspection in the OSHA docket office.

(B) If the preliminary decision is in favor of recognition, a member of the public, or if the preliminary decision is against recognition, the applicant may request a public hearing by the close of the comment period, if it supplies detailed reasons and evidence challenging the basis of the assistant secretary's preliminary decision and justifying the need for a public hearing to bring out evidence which could not be effectively supplied through written submissions.

(viii) Final decision by assistant secretary.

(A) Without hearing. If there are no valid requests for a hearing, based on the application, supporting documents, staff recommendation, evidence and public comment, the assistant secretary shall issue the final decision (including reasons) of the Department of Labor on whether the applicant has demonstrated by a preponderance of the evidence that it meets the requirements for recognition.

(B) After hearing. If there is a valid request for a hearing pursuant to (b)(vii)(B) of this subsection, the following procedures will be used:

(I) The assistant secretary will issue a notice of hearing before an administrative law judge of the Department of Labor pursuant to the rules specified in 29 CFR Part 1905, Subpart C.

(II) After the hearing, pursuant to Subpart C, the administrative law judge shall issue a decision (including reasons) based on the application, the supporting documentation, the staff recommendation, the public comments and the evidence submitted during the hearing (the record), stating whether it has been demonstrated, based on a preponderance of evidence, that the applicant meets the requirements for recognition. If no exceptions are filed, this is the final decision of the Department of Labor.

(III) Upon issuance of the decision, any party to the hearing may file exceptions within twenty days pursuant to Subpart C. If exceptions are filed, the administrative law judge shall forward the decision, exceptions and record to the assistant secretary for the final decision on the application.

(IV) The assistant secretary shall review the record, the decision by the administrative law judge, and the exceptions. Based on this, the assistant secretary shall issue the final decision (including reasons) of the Department of Labor stating whether the applicant has demonstrated by a preponderance of evidence that it meets the requirements for recognition.

(ix) Publication. A notification of the final decision shall be published in the federal register.

(c) Terms and conditions of recognition, renewal and revocation.

(i) The following terms and conditions shall be part of every recognition:

(A) The recognition of any validation organization will be evidenced by a letter of recognition from OSHA. The letter will provide the specific details of the scope of the OSHA recognition as well as any conditions imposed by OSHA, including any federal monitoring requirements.

(B) The recognition of each validation organization will be valid for five years, unless terminated before or renewed after the expiration of the period. The dates of the period of recognition will be stated in the recognition letter.

(C) The recognized validation organization shall continue to satisfy all the requirements of this Appendix and the letter of recognition during the period of recognition.

(ii) A recognized validation organization may change a test method of the PSDI safety system certification/validation program by notifying the assistant secretary of the change, certifying that the revised method will be at least as effective as the prior method, and providing the supporting data upon which its conclusions are based.

(iii) A recognized validation organization may renew its recognition by filing a renewal request at the address in (a)(iii) of this subsection, not less than one hundred eighty calendar days, nor more than one year, before the expiration date of its current recognition. When a recognized validation organization has filed such a renewal request, its current recognition will not expire until a final decision has been made on the request. The renewal request will be processed in accordance with (b) of this subsection, except that a reinspection is not required but may be performed by OSHA. A hearing will be granted to an objecting member of the public if evidence of failure to meet the requirements of this Appendix is supplied to OSHA.

(iv) A recognized validation organization may apply to OSHA for an expansion of its current recognition to cover other categories of PSDI certification/validation in addition to those included in the current recognition. The application for expansion will be acted upon and processed by OSHA in accordance with (b) of this subsection, subject to the possible reinspection exception. If the validation organization has been recognized for more than one year, meets the requirements for expansion of recognition, and there is no evidence that the recognized validation organization has not been following the requirements of this Appendix and the letter of recognition, an expansion will normally be granted. A hearing will be granted to an objecting member of the public only if evidence of failure to meet the requirements of this Appendix is supplied to OSHA.

(v) A recognized validation organization may voluntarily terminate its recognition, either in its entirety or with respect to any area covered in its recognition, by giving written notice to OSHA at any time. The written notice shall indicate the termination date. A validation organization may not terminate its installation certification and recertification validation functions earlier than either one year from the date of the written notice, or the date on which another recognized validation organization is able to perform the validation of installation certification and recertification.

(vi) OSHA may revoke its recognition of a validation organization if its program either has failed to continue to satisfy the requirements of this Appendix or its letter of recognition, has not been performing the validation functions required by the PSDI standard and WAC 296-24-20700, Appendix A, or has misrepresented itself in its applications. Before proposing to revoke recognition, the agency will notify the recognized validation organization of the basis of the proposed revocation and will allow rebuttal or correction of the alleged deficiencies. If the deficiencies are not corrected, OSHA may revoke recognition, effective in sixty days, unless the validation organization requests a hearing within that time.

(vii) If a hearing is requested, it shall be held before an administrative law judge of the Department of Labor pursuant to the rules specified in 29 CFR Part 1905, Subpart C.

(viii) The parties shall be OSHA and the recognized validation organization. The decision shall be made pursuant to the procedures specified in (b)(viii)(B)(II) through (IV) of this subsection except that the burden of proof shall be on OSHA to demonstrate by a preponderance of the evidence that the recognition should be revoked because the validation organization either is not meeting the requirements for recognition, has not been performing the validation functions required by the PSDI standard and WAC 296-24-20700, Appendix A, or has misrepresented itself in its applications.

(d) Provisions of OSHA recognition. Each recognized third-party validation organization and its validating laboratories shall:

(i) Allow OSHA to conduct unscheduled reviews or on-site audits of it or the validating laboratories on matters relevant to PSDI, and cooperate in the conduct of these reviews and audits;

(ii) Agree to terms and conditions established by OSHA in the grant of recognition on matters such as exchange of data, submission of accident reports, and assistance in studies for improving PSDI or the certification/validation process.

(3) Qualifications. The third-party validation organization, the validating laboratory, and the employees of each shall meet the requirements set forth in this section of this Appendix.

(a) Experience of validation organization.

(i) The third-party validation organization shall have legal authority to perform certification/validation activities.

(ii) The validation organization shall demonstrate competence and experience in either power press design, manufacture or use, or testing, quality control or certification/validation of equipment comparable to power presses and associated control systems.

(iii) The validation organization shall demonstrate a capability for selecting, reviewing, and/or validating appropriate standards and test methods to be used for validating the certification of PSDI safety systems, as well as for reviewing judgments on the safety of PSDI safety systems and their conformance with the requirements of this section.

(iv) The validating organization may utilize the competence, experience, and capability of its employees to demonstrate this competence, experience, and capability.

(b) Independence of validation organization.

(i) The validation organization shall demonstrate that:

(A) It is financially capable to conduct the work;

(B) It is free of direct influence or control by manufacturers, suppliers, vendors, representatives of employers and employees, and employer or employee organizations; and

(C) Its employees are secure from discharge resulting from pressures from manufacturers, suppliers, vendors, employers or employee representatives.

(ii) A validation organization may be considered independent even if it has ties with manufacturers, employers or employee representatives if these ties are with at least two of these three groups; it has a board of directors (or equivalent leadership responsible for the certification/validation activities) which includes representatives of the three groups; and

it has a binding commitment of funding for a period of three years or more.

(c) Validating laboratory. The validation organization's laboratory (which organizationally may be a part of the third-party validation organization):

(i) Shall have legal authority to perform the validation of certification;

(ii) Shall be free of operational control and influence of manufacturers, suppliers, vendors, employers or employee representatives that would impair its integrity of performance; and

(iii) Shall not engage in the design, manufacture, sale, promotion, or use of the certified equipment.

(d) Facilities and equipment. The validation organization's validating laboratory shall have available all testing facilities and necessary test and inspection equipment relevant to the validation of the certification of PSDI safety systems, installations and operations.

(e) Personnel. The validation organization and the validating laboratory shall be adequately staffed by personnel who are qualified by technical training and/or experience to conduct the validation of the certification of PSDI safety systems.

(i) The validation organization shall assign overall responsibility for the validation of PSDI certification to an administrative director. Minimum requirements for this position are a bachelor's degree and five years professional experience, at least one of which shall have been in responsible charge of a function in the areas of power press design or manufacture or a broad range of power press use, or in the areas of testing, quality control, or certification/validation of equipment comparable to power presses or their associated control systems.

(ii) The validating laboratory, if a separate organization from the validation organization, shall assign technical responsibility for the validation of PSDI certification to a technical director. Minimum requirements for this position are a bachelor's degree in a technical field and five years of professional experience, at least one of which shall have been in responsible charge of a function in the area of testing, quality control or certification/validation of equipment comparable to power presses or their associated control systems.

(iii) If the validation organization and the validating laboratory are the same organization, the administrative and technical responsibilities may be combined in a single position, with minimum requirements as described in (e)(i) and (ii) of this subsection for the combined position.

(iv) The validation organization and validating laboratory shall have adequate administrative and technical staffs to conduct the validation of the certification of PSDI safety systems.

(f) Certification/validation mark or logo.

(i) The validation organization or the validating laboratory shall own a registered certification/validation mark or logo.

(ii) The mark or logo shall be suitable for incorporation into the label required by WAC 296-24-19517 (11)(c) of this part.

(4) Program requirements.

(a) Test and certification/validation procedures.

(i) The validation organization and/or validating laboratory shall have established written procedures for test and certification/validation of PSDI safety systems. The procedures shall be based on pertinent OSHA standards and test methods, or other publicly available standards and test methods generally recognized as appropriate in the field, such as national consensus standards or published standards of professional societies or trade associations.

(ii) The written procedures for test and certification/validation of PSDI systems, and the standards and test methods on which they are based, shall be reproducible and be available to OSHA and to the public upon request.

(b) Test reports.

(i) A test report shall be prepared for each PSDI safety system that is tested. The test report shall be signed by a technical staff representative and the technical director.

(ii) The test report shall include the following:

(A) Name of manufacturer and catalog or model number of each subsystem or major component.

(B) Identification and description of test methods or procedures used. (This may be through reference to published sources which describe the test methods or procedures used.)

(C) Results of all tests performed.

(D) All safety distance calculations.

(iii) A copy of the test report shall be maintained on file at the validation organization and/or validating laboratory, and shall be available to OSHA upon request.

(c) Certification/validation reports.

(i) A certification/validation report shall be prepared for each PSDI safety system for which the certification is validated. The certification/validation report shall be signed by the administrative director and the technical director.

(ii) The certification/validation report shall include the following:

(A) Name of manufacturer and catalog or model number of each subsystem or major component.

(B) Results of all tests which serve as the basis for the certification.

(C) All safety distance calculations.

(D) Statement that the safety system conforms with all requirements of the PSDI standard and WAC 296-24-20700, Appendix A.

(iii) A copy of the certification/validation report shall be maintained on file at the validation organization and/or validating laboratory, and shall be available to the public upon request.

(iv) A copy of the certification/validation report shall be submitted to OSHA within thirty days of its completion.

(d) Publications system. The validation organization shall make available upon request a list of PSDI safety systems which have been certified/validated by the program.

(e) Follow-up activities.

(i) The validation organization or validating laboratory shall have a follow-up system for inspecting or testing manufacturer's production of design certified/validated PSDI safety system components and subassemblies where deemed appropriate by the validation organization.

(ii) The validation organization shall notify the appropriate product manufacturer(s) of any reports from employers of

point of operation injuries which occur while a press is operated in a PSDI mode.

(f) Records. The validation organization or validating laboratory shall maintain a record of each certification/validation of a PSDI safety system, including manufacturer and/or employer certification documentation, test and working data, test report, certification/validation report, any follow-up inspections or testing, and reports of equipment failures, any reports of accidents involving the equipment, and any other pertinent information. These records shall be available for inspection by OSHA and OSHA state plan offices.

(g) Dispute resolution procedures.

(i) The validation organization shall have a reasonable written procedure for acknowledging and processing appeals or complaints from program participants (manufacturers, producers, suppliers, vendors, and employers) as well as other interested parties (employees or their representatives, safety personnel, government agencies, etc.), concerning certification or validation.

(ii) The validation organization may charge any complainant the reasonable charge for repeating tests needed for the resolution of disputes.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-20720, filed 11/14/88.]

WAC 296-24-20730 Appendix D to WAC 296-24-195. Nonmandatory supplementary information.

(1) This Appendix provides nonmandatory supplementary information and guidelines to assist in the understanding and use of WAC 296-24-19517 to allow presence sensing device initiation (PSDI) of mechanical power presses. Although this Appendix as such is not mandatory, it references sections and requirements which are made mandatory by other parts of the PSDI standard and appendices.

(2) General. OSHA intends that PSDI continue to be prohibited where present state-of-the-art technology will not allow it to be done safely. Only part revolution type mechanical power presses are approved for PSDI. Similarly, only presses with a configuration such that a person's body cannot completely enter the bed area are approved for PSDI.

(3) Brake and clutch.

(a) Flexible steel band brakes do not possess a long-term reliability against structural failure as compared to other types of brakes, and therefore are not acceptable on presses used in the PSDI mode of operation.

(b) Fast and consistent stopping times are important to safety for the PSDI mode of operation. Consistency of braking action is enhanced by high brake torque. The requirement in WAC 296-24-19517 (2)(b) defines a high torque capability which should ensure fast and consistent stopping times.

(c) Brake design parameters important to PSDI are high torque, low moment of inertia, low air volume (if pneumatic) mechanisms, noninterleaving engagement springs, and structural integrity which is enhanced by over-design. The requirement in WAC 296-24-19517 (2)(c) reduces the possibility of significantly increased stopping time if a spring breaks.

(d) As an added precaution to the requirements in WAC 296-24-19517 (2)(c), brake adjustment locking means should be secured. Where brake springs are externally accessible, lock nuts or other means may be provided to reduce the possibility of backing off of the compression nut which holds the springs in place.

(4) Pneumatic systems. Elevated clutch/brake air pressure results in longer stopping time. The requirement in WAC 296-24-19517 (3)(a)(iii) is intended to prevent degradation in stopping speed from higher air pressure. Higher pressures may be permitted, however, to increase clutch torque to free "jammed" dies, provided positive measures are provided to prevent the higher pressure at other times.

(5) Flywheels and bearings. Lubrication of bearings is considered the single greatest deterrent to their failure. The manufacturer's recommended procedures for maintenance and inspection should be closely followed.

(6) Brake monitoring.

(a) The approval of brake monitor adjustments, as required in WAC 296-24-19517 (5)(b), is not considered a recertification, and does not necessarily involve an on-site inspection by a representative of the validation organization. It is expected that the brake monitor adjustment normally could be evaluated on the basis of the effect on the safety system certification/validation documentation retained by the validation organization.

(b) Use of a brake monitor does not eliminate the need for periodic brake inspection and maintenance to reduce the possibility of catastrophic failures.

(7) Cycle control and control systems.

(a) The PSDI set-up/reset means required by WAC 296-24-19517 (6)(d) may be initiated by the actuation of a special momentary pushbutton or by the actuation of a special momentary pushbutton and the initiation of a first stroke with two hand controls.

(b) It would normally be preferable to limit the adjustment of the time required in WAC 296-24-19517 (6)(b) to a maximum of fifteen seconds. However, where an operator must do many operations outside the press, such as lubricating, trimming, deburring, etc., a longer interval up to thirty seconds is permitted.

(c) When a press is equipped for PSDI operation, it is recommended that the presence sensing device be active as a guarding device in other production modes. This should enhance the reliability of the device and ensure that it remains operable.

(d) An acceptable method for interlocking supplemental guards as required by WAC 296-24-19517 (6)(h) would be to incorporate the supplemental guard and the PSDI presence sensing device into a hinged arrangement in which the alignment of the presence sensing device serves, in effect, as the interlock. If the supplemental guards are moved, the presence sensing device would become misaligned and the press control would be deactivated. No extra microswitches or interlocking sensors would be required.

(e) WAC 296-24-19517 (6)(n) of the standard requires that the control system have provisions for an "inch" operating means; that die-setting not be done in the PSDI mode; and that production not be done in the "inch" mode. It should be noted that the sensing device would be by-passed in the "inch" mode. For that reason, the prohibitions against die-setting in the PSDI mode, and against production in the "inch" mode are cited to emphasize that "inch" operation is of

reduced safety and is not compatible with PSDI or other production modes.

(8) Environmental requirements. It is the intent of WAC 296-24-19517(7) that control components be provided with inherent design protection against operating stresses and environmental factors affecting safety and reliability.

(9) Safety system.

(a) The safety system provision continues the concept of WAC 296-24-19505(13) that the probability of two independent failures in the length of time required to make one press cycle is so remote as to be a negligible risk factor in the total array of equipment and human factors. The emphasis is on an integrated total system including all elements affecting point of operation safety.

(b) It should be noted that this does not require redundancy for press components such as structural elements, clutch/brake mechanisms, plates, etc., for which adequate reliability may be achieved by proper design, maintenance, and inspection.

(10) Safeguarding the point of operation.

(a) The intent of WAC 296-24-19517 (9)(c) is to prohibit use of mirrors to "bend" a single light curtain sensing field around corners to cover more than one side of a press. This prohibition is needed to increase the reliability of the presence sensing device in initiating a stroke only when the desired work motion has been completed.

(b) "Object sensitivity" describes the capability of a presence sensing device to detect an object in the sensing field, expressed as the linear measurement of the smallest interruption which can be detected at any point in the field. Minimum object sensitivity describes the largest acceptable size of the interruption in the sensing field. A minimum object sensitivity of one and one-fourth inches (31.75 mm) means that a one and one-fourth inch (31.75 mm) diameter object will be continuously detected at all locations in the sensing field.

(c) In deriving the safety distance required in WAC 296-24-19517 (9)(f), all stopping time measurements should be made with clutch/brake air pressure regulated to the press manufacturer's recommended value for full clutch torque capability. The stopping time measurements should be made with the heaviest upper die that is planned for use in the press. If the press has a slide counterbalance system, it is important that the counterbalance be adjusted correctly for upper die weight according to the manufacturer's instructions. While the brake monitor setting is based on the stopping time it actually measures, i.e., the normal stopping time at the top of the stroke, it is important that the safety distance be computed from the longest stopping time measured at any of the indicated three downstroke stopping positions listed in the explanation of Ts. The use in the formula of twice the stopping time increase, Tm, allowed by the brake monitor for brake wear allows for greater increases in the downstroke stopping time than occur in normal stopping time at the top of the stroke.

(11) Inspection and maintenance. [Reserved]

(12) Safety system certification/validation. Mandatory requirements for certification/validation of the PSDI safety system are provided in WAC 296-24-20700, Appendix A, and 296-24-20720, Appendix C to this standard. Nonmandatory supplementary information and guidelines relating to certification/validation of the PSDI safety system are provided in WAC 296-24-20710, Appendix B to this standard.

[Statutory Authority: Chapter 49.17 RCW. 92-17-022 (Order 92-06), § 296-24-20730, filed 8/10/92, effective 9/10/92; 88-23-054 (Order 88-25), § 296-24-20730, filed 11/14/88.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

PART D
MATERIALS HANDLING AND STORAGE, INCLUDING CRANES, DERRICKS, ETC., AND RIGGING

Handling and storage—Cranes, derricks, etc.

WAC 296-24-215 Materials handling and storage—Handling materials—General.

[Order 73-5, § 296-24-215, filed 5/9/73 and Order 73-4, § 296-24-215, filed 5/7/73.]

WAC 296-24-21501 Use of mechanical equipment. Where mechanical handling equipment is used, sufficient safe clearances shall be allowed for aisles, at loading docks, through doorways and wherever turns or passage must be made. Aisles and passageways shall be kept clear and in good repair, with no obstruction across or in aisles that could create a hazard. Permanent aisles and passageways shall be appropriately marked.

[Order 73-5, § 296-24-21501, filed 5/9/73 and Order 73-4, § 296-24-21501, filed 5/7/73.]

WAC 296-24-21503 Secure storage. Storage of material shall not create a hazard. Bags, containers, bundles, etc., stored in tiers shall be stacked, blocked, interlocked and limited in height so that they are stable and secure against sliding or collapse.

[Order 73-5, § 296-24-21503, filed 5/9/73 and Order 73-4, § 296-24-21503, filed 5/7/73.]

WAC 296-24-21505 Housekeeping. Storage areas shall be kept free from accumulation of materials that constitute hazards from tripping, fire, explosion, or pest harborage. Vegetation control will be exercised when necessary.

[Order 73-5, § 296-24-21505, filed 5/9/73 and Order 73-4, § 296-24-21505, filed 5/7/73.]

WAC 296-24-21507 Drainage. Proper drainage shall be provided.

[Order 73-5, § 296-24-21507, filed 5/9/73 and Order 73-4, § 296-24-21507, filed 5/7/73.]

WAC 296-24-21509 Clearance limits. Clearance signs to warn of clearance limits shall be provided.

[Order 73-5, § 296-24-21509, filed 5/9/73 and Order 73-4, § 296-24-21509, filed 5/7/73.]

WAC 296-24-21511 Rolling railroad cars. (1) Derail and/or bumper blocks shall be provided on spur railroad tracks where a rolling car could contact other cars being worked, enter a building, work or traffic area. This does not

apply to cars being moved by a locomotive, switch engine, donkey engine, or a car puller, but only to cars which are "cut loose." The standard does not apply to "cut loose" cars in railroad yards where trains are made up using gravity feed arrangements.

(2) A clearly audible warning system shall be employed when cars are being moved by car pullers or locomotives, and when the person responsible for the moving does not have assurance that the area is clear, and it is safe to move the car or cars.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-21511, filed 5/15/89, effective 6/30/89; Order 74-27, § 296-24-21511, filed 5/7/74; Order 73-5, § 296-24-21511, filed 5/9/73 and Order 73-4, § 296-24-21511, filed 5/7/73.]

WAC 296-24-21513 Guarding. Covers and/or guardrails shall be provided to protect personnel from the hazards of open pits, tanks, vats, ditches, etc.

[Order 73-5, § 296-24-21513, filed 5/9/73 and Order 73-4, § 296-24-21513, filed 5/7/73.]

WAC 296-24-21515 Conveyors. Conveyors shall be constructed operated and maintained in accordance with the provisions of ANSI B 20.1-1957. The following additional provisions shall also apply where applicable.

(1) When the return strand of a conveyor operates within seven feet of the floor there shall be a trough provided of sufficient strength to carry the weight resulting from a broken chain.

(2) If the strands are over a passageway a means shall be provided to catch and support the ends of the chain in the event of a break.

(3) When the working strand of a conveyor crosses within three feet of the floor level in passageways, the trough in which it works shall be bridged the full width of the passageway.

(4) Whenever conveyors pass adjacent to or over working areas or passageways used by personnel, protective guards shall be installed. These guards shall be designed to catch and hold any load or materials which may fall off or become dislodged and injure a worker.

(5) Walking on rolls prohibited. Employees shall not be allowed to walk on the rolls of roller-type conveyors except for emergency.

(6) Guarding shaftway and material entrances of elevator type conveyors. Guards, screens or barricades of sufficient strength and size to prevent material from falling shall be installed on all sides of the shaftway of elevator-type conveyors except at openings where material is loaded or unloaded. Automatic shaftway gates or suitable barriers shall be installed at each floor level where material is loaded or unloaded from the platform.

(7) Emergency conveyor stops. Conveyors shall be provided with an emergency stopping device which can be reached from the conveyor. Such device shall be located near the material entrance to each barker, chipper, saw, or similar type of equipment except where the conveyor leading into such equipment is under constant control of an operator who has full view of the material entrance and is located where the operator cannot possibly fall onto the conveyor.

(8) Safe access to conveyors. Where conveyors are in excess of 7' in height, means shall be provided to safely permit essential inspection and maintenance operations.

(9) Worn parts. Any part showing signs of significant wear shall be inspected carefully and replaced prior to reaching a condition where it may create a hazard.

(10) Replacement of parts. Replacement parts shall be equal to or exceed the manufacturer's specifications.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-21515, filed 7/20/94, effective 9/20/94; Order 74-27, § 296-24-21515, filed 5/7/74; Order 73-5, § 296-24-21515, filed 5/9/73 and Order 73-4, § 296-24-21515, filed 5/7/73.]

WAC 296-24-217 Servicing multi-piece and single-piece rim wheels.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 84-17-099 (Order 84-18), § 296-24-217, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-217, filed 11/13/80.]

WAC 296-24-21701 Scope. (1) This section applies to the servicing of multi-piece and single-piece rim wheels used on large vehicles such as trucks, tractors, trailers, buses and off-road machines. It does not apply to the servicing of rim wheels used on automobiles, or on pickup trucks and vans utilizing automobile tires or truck tires designated "LT."

(2) This section does not apply to employers and places of employment regulated under the Construction safety standards, chapter 296-155 WAC.

(3) All provisions of this section apply to the servicing of both single-piece rim wheels and multi-piece rim wheels unless designated otherwise.

[Statutory Authority: Chapter 49.17 RCW. 88-14-108 (Order 88-11), § 296-24-21701, filed 7/6/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 84-17-099 (Order 84-18), § 296-24-21701, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21701, filed 11/13/80.]

WAC 296-24-21703 Definitions. (1) "Barrier" means a fence, wall or other structure or object placed between a single-piece rim wheel and an employee during tire inflation, to contain the rim wheel components in the event of the sudden release of the contained air of the single-piece rim wheel.

(2) "Charts" means the United States Department of Labor, Occupational Safety and Health Administration publications entitled *"Demounting and Mounting Procedures for Truck/Bus Tires"* and *"Multi-Piece Rim Matching Chart, "* the National Highway Traffic Safety Administration (NHTSA) publications entitled *"Demounting and Mounting Procedures for Truck/Bus Tires"* and *"Multi-Piece Rim Matching Chart, "* or any other poster which contains at least the same instructions, safety precautions and other information contained in the charts that is applicable to the types of wheels being serviced.

(3) "Installing a rim wheel" means the transfer and attachment of an assembled rim wheel onto a vehicle axle hub. "Removing" means the opposite of installing.

(4) "Mounting a tire" means the assembly or putting together of the wheel and tire components to form a rim wheel, including inflation. "Demounting" means the opposite of mounting.

(5) "Multi-piece rim wheel" means the assemblage of a multi-piece wheel with the tire tube and other components.

(6) "Multi-piece wheel" means a vehicle wheel consisting of two or more parts, one of which is a side or locking ring designed to hold the tire on the wheel by interlocking components when the tire is inflated.

(7) "Restraining device" means an apparatus such as a cage, rack, assemblage of bars and other components that will constrain all rim wheel components during an explosive separation of a multi-piece rim wheel, or during the sudden release of the contained air of a single-piece rim wheel.

(8) "Rim manual" means a publication containing instructions from the manufacturer or other qualified organization for correct mounting, demounting, maintenance, and safety precautions peculiar to the type of wheel being serviced.

(9) "Rim wheel" means an assemblage of tire, tube and liner (where appropriate), and wheel components.

(10) "Service" or "servicing" means the mounting and demounting of rim wheels, and related activities such as inflating, deflating, installing, removing, and handling.

(11) "Service area" means that part of an employer's premises used for the servicing of rim wheels, or any other place where an employee services rim wheels.

(12) "Single-piece rim wheel" means the assemblage of single-piece rim wheel with the tire and other components.

(13) "Single-piece wheel" means a vehicle wheel consisting of one part, designed to hold the tire on the wheel when the tire is inflated.

(14) "Trajectory" means any potential path or route that a rim wheel component may travel during an explosive separation, or the sudden release of the pressurized air, or an area at which an airblast from a single-piece rim wheel may be released. The trajectory may deviate from paths which are perpendicular to the assembled position of the rim wheel at the time of separation or explosion. (See Appendix A for examples of trajectories.)

(15) "Wheel" means that portion of a rim wheel which provides the method of attachment of the assembly to the axle of a vehicle and also provides the means to contain the inflated portion of the assembly (i.e., the tire and/or tube).

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-21703, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 84-17-099 (Order 84-18), § 296-24-21703, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21703, filed 11/13/80.]

WAC 296-24-21705 Employee training. (1) The employer shall provide a program to train all employees who service rim wheels in the hazards involved in servicing those rim wheels and the safety procedures to be followed.

(a) The employer shall assure that no employee services any rim wheel unless the employee has been trained and instructed in correct procedures of servicing the type of wheel being serviced, and in the safe operating procedures described in WAC 296-24-21711 and 296-24-21713.

(b) Information to be used in the training program shall include, at a minimum, the applicable data contained in the charts (rim manuals) and the contents of this standard.

(c) Where an employer knows or has reason to believe that any employee is unable to read and understand the charts or rim manual, the employer shall assure that the employee is instructed concerning the contents of the charts and rim manual in a manner which the employee is able to understand.

(2) The employer shall assure that each employee demonstrates and maintains the ability to service rim wheels safely, including performance of the following tasks:

(a) Demounting of tires (including deflation);

(b) Inspection and identification of the rim wheel components;

(c) Mounting of tires (including inflation with a restraining device or other safeguard required by this section);

(d) Use of the restraining device or barrier, and other equipment required by this section;

(e) Handling of rim wheels;

(f) Inflation of the tire when a single-piece rim wheel is mounted on a vehicle;

(g) An understanding of the necessity of standing outside the trajectory both during inflation of the tire and during inspection of the rim wheel following inflation; and

(h) Installation and removal of rim wheels.

(3) The employer shall evaluate each employee's ability to perform these tasks and to service rim wheels safely, and shall provide additional training as necessary to assure that each employee maintains his or her proficiency.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-21705, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 86-03-064 (Order 86-02), § 296-24-21705, filed 1/17/86; 84-17-099 (Order 84-18), § 296-24-21705, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21705, filed 11/13/80.]

WAC 296-24-21707 Tire servicing equipment. (1) The employer shall furnish a restraining device for inflating tires on multi-piece wheels.

(2) The employer shall provide a restraining device or barrier for inflating tires on single-piece wheels unless the rim wheel will be bolted onto a vehicle during inflation.

(3) Restraining devices and barriers shall comply with the following requirements:

(a) Each restraining device or barrier shall have the capacity to withstand the maximum force that would be transferred to it during a rim wheel separation occurring at one hundred fifty percent of the maximum tire specification pressure for the type of rim wheel being serviced.

(b) Restraining devices and barriers shall be capable of preventing the rim wheel components from being thrown outside or beyond the device or barrier for any rim wheel positioned within or behind the device;

(c) Restraining devices and barriers shall be visually inspected prior to each day's use and after any separation of the rim wheel components or sudden release of contained air. Any restraining device or barrier exhibiting damage such as the following defects shall be immediately removed from service:

(i) Cracks at welds;

(ii) Cracked or broken components;

(iii) Bent or sprung components caused by mishandling, abuse, tire explosion or rim wheel separation;

(iv) Pitting of components due to corrosion; or

(v) Other structural damage which would decrease its effectiveness.

(d) Restraining devices or barriers removed from service shall not be returned to service until they are repaired and reinspected. Restraining devices or barriers requiring structural repair such as component replacement or rewelding shall not be returned to service until they are certified by either the manufacturer or a registered professional engineer as meeting the strength requirements of (a) of this subsection.

(4) The employer shall furnish and assure that an air line assembly consisting of the following components be used for inflating tires:

(a) A clip-on chuck;

(b) An in-line valve with a pressure gauge or a preset-table regulator; and

(c) A sufficient length of hose between the clip-on chuck and the in-line valve (if one is used) to allow the employee to stand outside the trajectory.

(5) Current charts or rim manuals containing instructions for the types of wheels being serviced shall be available in the service area.

(6) The employer shall furnish and assure that only tools recommended in the rim manual for the type of wheel being serviced are used to service rim wheels.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-21707, filed 5/15/89, effective 6/30/89; 88-11-021 (Order 88-04), § 296-24-21707, filed 5/11/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 86-03-064 (Order 86-02), § 296-24-21707, filed 1/17/86; 84-17-099 (Order 84-18), § 296-24-21707, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21707, filed 11/13/80.]

WAC 296-24-21709 Wheel component acceptability. (1) Multi-piece wheel components shall not be interchanged except as provided in the charts, or in the applicable rim manual.

(2) Multi-piece wheel components and single-piece wheels shall be inspected prior to assembly. Any wheel or wheel component which is bent out of shape, pitted from corrosion, broken or cracked shall not be used and shall be marked or tagged unserviceable and removed from the service area. Damaged or leaky valves shall be replaced.

(3) Rim flanges, rim gutters, rings, bead seating surfaces and the bead areas of tires shall be free of any dirt, surface rust, scale or loose or flaked rubber build-up prior to mounting and inflation.

(4) The size (bead diameter and tire/wheel widths) and type of both the tire and the wheel shall be checked for compatibility prior to assembly of the rim wheel.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 84-17-099 (Order 84-18), § 296-24-21709, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21709, filed 11/13/80.]

WAC 296-24-21711 Safe operating procedure—Multi-piece rim wheels. The employer shall establish a safe operating procedure for servicing multi-piece rim wheels and shall assure that employees are instructed in and follow that procedure. The procedure shall include at least the following elements:

(1) Tires shall be completely deflated before demounting by removal of the valve core.

(2) Tires shall be completely deflated by removing the valve core, before a rim wheel is removed from the axle in either of the following situations:

(a) When the tire has been driven underinflated at eighty percent or less of its recommended pressure, or

(b) When there is obvious or suspected damage to the tire or wheel components.

(3) Rubber lubricant shall be applied to bead and rim mating surfaces during assembly of the wheel and inflation of the tire, unless the tire or wheel manufacturer recommends against it.

(4) If a tire on a vehicle is underinflated but has more than eighty percent of the recommended pressure, the tire may be inflated while the rim wheel is on the vehicle provided remote control inflation equipment is used, and no employees remain in the trajectory during inflation.

(5) Tires shall be inflated outside a restraining device only to a pressure sufficient to force the tire bead onto the rim ledge and create an airtight seal with the tire and bead.

(6) Whenever a rim wheel is in a restraining device the employee shall not rest or lean any part of the body or equipment on or against the restraining device.

(7) After tire inflation, the tire and wheel components shall be inspected while still within the restraining device to make sure that they are properly seated and locked. If further adjustment to the tire or wheel components is necessary, the tire shall be deflated by removal of the valve core before the adjustment is made.

(8) No attempt shall be made to correct the seating of side and lock rings by hammering, striking or forcing the components while the tire is pressurized.

(9) Cracked, broken, bent or otherwise damaged rim components shall not be reworked, welded, brazed, or otherwise heated.

(10) Whenever multi-piece rim wheels are being handled, employees shall stay out of the trajectory unless the employer can demonstrate that performance of the servicing makes the employee's presence in the trajectory necessary.

(11) No heat shall be applied to a multi-piece wheel or wheel component.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-21711, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 86-03-064 (Order 86-02), § 296-24-21711, filed 1/17/86; 84-17-099 (Order 84-18), § 296-24-21711, filed 8/21/84. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 42.30 and 43.22 RCW. 80-17-014 (Order 80-20), § 296-24-21711, filed 11/13/80.]

WAC 296-24-21713 Safe operating procedure—Single-piece rim wheels. The employer shall establish a safe operating procedure for servicing single-piece rim wheels and shall assure that employees are instructed in and follow that procedure. The procedure shall include at least the following elements:

(1) Tires shall be completely deflated by removal of the valve core before demounting.

(2) Mounting and demounting of the tire shall be done only from the narrow ledge side of the wheel. Care shall be taken to avoid damaging the tire beads while mounting tires

on wheels. Tires shall be mounted only on compatible wheels of matching bead diameter and width.

(3) Nonflammable rubber lubricant shall be applied to bead and wheel mating surfaces before assembly of the rim wheel, unless the tire or wheel manufacturer recommends against the use of any rubber lubricant.

(4) If a tire changing machine is used, the tire shall be inflated only to the minimum pressure necessary to force the tire bead onto the rim ledge while on the tire changing machine.

(5) If a bead expander is used, it shall be removed before the valve core is installed and as soon as the rim wheel becomes airtight (the tire bead slips onto the bead seat).

(6) Tires may be inflated only when contained within a restraining device, positioned behind a barrier or bolted on the vehicle with the lug nuts fully tightened.

(7) Tires shall not be inflated when any flat, solid surface is in the trajectory and within one foot of the sidewall.

(8) Employees shall stay out of the trajectory when inflating a tire.

(9) Tires shall not be inflated to more than the inflation pressure stamped in the sidewall unless a higher pressure is recommended by the manufacturer.

(10) Tires shall not be inflated above the maximum pressure recommended by the manufacturer to seat the tire bead firmly against the rim flange.

(11) No heat shall be applied to a single-piece wheel.

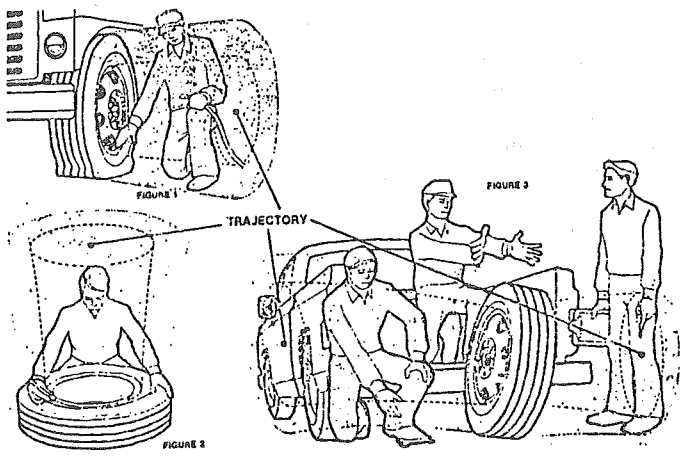
(12) Cracked, broken, bent, or otherwise damaged wheels shall not be reworked, welded, brazed, or otherwise heated.

(13) APPENDIX A TRAJECTORY

WARNING

STAY OUT OF
THE TRAJECTORY AS
INDICATED BY SHADED AREA

Note: Under some circumstances, the trajectory may deviate from its expected path.



(14) Appendix B—Ordering Information for NHTSA charts

Appendix B—Ordering Information for the OSHA charts

OSHA has printed two charts entitled *"Demounting and Mounting Procedures for Truck/Bus Tires"* and *"Multi-Piece Rim Matching Chart, "* as part of a continuing campaign to reduce accidents among employees who service large vehicle rim wheels.

Reprints of the charts are available through the Occupational Safety and Health Administration (OSHA) area offices. The address and telephone number of the nearest OSHA area office can be obtained by looking in the local telephone directory under U.S. Government, U.S. Department of Labor, Occupational Safety and Health Administration. Single copies are available without charge.

Individuals, establishments and other organizations desiring multiple copies of these charts may order them from the Publications Office, U.S. Department of Labor, Room N3101, Washington, D.C. 20210. Telephone: (202) 523-9667.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-21713, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 84-17-099 (Order 84-18), § 296-24-21713, filed 8/21/84.]

WAC 296-24-230 Powered industrial trucks.

[Order 73-5, § 296-24-230, filed 5/9/73 and Order 73-4, § 296-24-230, filed 5/7/73.]

WAC 296-24-23001 Definition. These definitions are applicable to all sections of this chapter containing WAC 296-24-230 in the section number. As used in those sections, the term, "approved truck" or "approved industrial truck" means a truck that is listed or approved for fire safety purposes for the intended use by a nationally recognized testing laboratory, using nationally recognized testing standards. Refer to WAC 296-24-58501(19) for definition of listed, and to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-23001, filed 11/14/88; Order 74-27, § 296-24-23001, filed 5/7/74; Order 73-5, § 296-24-23001, filed 5/9/73 and Order 73-4, § 296-24-23001, filed 5/7/73.]

WAC 296-24-23003 General requirements. These requirements are applicable to all sections of this chapter containing the WAC 296-24-230 in the section number.

(1) This section contains safety requirements relating to fire protection design, maintenance, and use of fork trucks, tractors, platform lift trucks, motorized hand trucks, and other specialized industrial trucks, powered by electric motors or internal combustion engines. This section does not apply to compressed gas-operated industrial trucks, nor to farm vehicles, to vehicles intended primarily for earth moving or over-the-road hauling.

(2) All new powered industrial trucks acquired and used by an employer after the effective date of these standards shall meet the design and construction requirements for powered industrial trucks established in the "American National Standard for Powered Industrial Trucks, Part II, ANSI B56.1-1969, " except for vehicles intended primarily for earth moving or over-the-road hauling.

(3) Approved trucks shall bear a label or some other identifying mark indicating approval by the testing laboratory

as meeting the specifications and requirements of ANSI B56.1-1969.

(4) Modifications and additions which affect capacity and safe operation shall not be performed by the customer or user without manufacturers prior written approval. Capacity, operation, and maintenance instruction plates, tags, or decals shall be changed accordingly.

(5) If the truck is equipped with front-end attachments other than factory installed attachments, it shall be marked to identify the attachments and show the approximate weight of the truck and attachment combination at maximum elevation with load laterally centered.

(6) The user shall see that all nameplates and markings are in place and are maintained in a legible condition.

[Order 76-6, § 296-24-23003, filed 3/1/76; Order 74-27, § 296-24-23003, filed 5/7/74; Order 73-5 § 296-24-23003, filed 5/9/73 and Order 73-4, § 296-24-23003, filed 5/7/73.]

WAC 296-24-23005 Designations. For the purpose of this standard there are eleven different designations of industrial trucks or tractors as follows: D, DS, DY, E, ES, EE, EX, G, GS, LP, and LPS.

(1) The D designated units are units similar to the G units except that they are diesel engine powered instead of gasoline engine powered.

(2) The DS designated units are diesel powered units that are provided with additional safeguards to the exhaust, fuel and electrical systems. They may be used in some locations where a D unit may not be considered suitable.

(3) The DY designated units are diesel powered units that have all the safeguards of the DS units and in addition do not have any electrical equipment, including the ignition, and are equipped with temperature limitation features.

(4) The E designated units are electrically powered units that have minimum acceptable safeguards against inherent fire hazards.

(5) The ES designated units are electrically powered units that, in addition to all of the requirements for the E units, are provided with additional safeguards to the electrical system to prevent emission of hazardous sparks and to limit surface temperatures. They may be used in some locations where the use of an E unit may not be considered suitable.

(6) The EE designated units are electrically powered units that have, in addition to all of the requirements for the E and ES units, the electric motors and all other electrical equipment completely enclosed. In certain locations the EE unit may be used where the use of an E and ES unit may not be considered suitable.

(7) The EX designated units are electrically powered units that differ from E, ES, or EE units in that the electrical fittings and equipment are so designed, constructed and assembled that the units may be used in certain atmospheres containing flammable vapors or dusts.

(8) The G designated units are gasoline powered units having minimum acceptable safeguards against inherent fire hazards.

(9) The GS designated units are gasoline powered units that are provided with additional safeguards to the exhaust, fuel, and electrical systems. They may be used in some locations where the use of a G unit may not be considered suitable.

(10) The LP designated unit is similar to the G unit except that liquefied petroleum gas is used for fuel instead of gasoline.

(11) The LPS designated units are liquefied petroleum gas powered units that are provided with additional safeguards to the exhaust, fuel, and electrical systems. They may be used in some locations where the use of an LP unit may not be considered suitable.

(12) The atmosphere or location shall have been classified as to whether it is hazardous or nonhazardous prior to the consideration of industrial trucks being used therein and the type of industrial truck required shall be as provided in WAC 296-24-23009 for such location.

[Order 73-5, § 296-24-23005, filed 5/9/73 and Order 73-4, § 296-24-23005, filed 5/7/73.]

WAC 296-24-23007 Designated locations. (1) The industrial trucks specified under (2) of this section are the minimum types required but industrial trucks having greater safeguards may be used if desired.

(2) For specific areas of use see Table N-1 following this section which tabulates the information contained in this section. References are to the corresponding classification as used in chapter 296-24 WAC Part L.

(a) Power-operated industrial trucks shall not be used in atmospheres containing hazardous concentration of acetylene, butadiene, ethylene oxide, hydrogen (or gases or vapors equivalent in hazard to hydrogen, such as manufactured gas), propylene oxide, acetaldehyde, cyclopropane, diethyl ether, ethylene, isoprene, or unsymmetrical dimenthyl hydrazine (UDMH).

(i) Power-operated industrial trucks shall not be used in atmospheres containing hazardous concentrations of metal dust, including aluminum, magnesium, and their commercial alloys, other metals of similarly hazardous characteristics, or in atmospheres containing carbon black, coal or coke dust except approved power-operated industrial trucks designated as EX may be used in such atmospheres.

(ii) In atmospheres where dust of magnesium, aluminum or aluminum bronze may be present, fuses, switches, motor controllers, and circuit breakers of trucks shall have enclosures specifically approved for such locations.

(b) Only approved power-operated industrial trucks designated as EX may be used in atmospheres containing acetone, acrylonitrile, alcohol, ammonia, benzine, bensol, butane, ethylene dichloride, gasoline, hexane, lacquer solvent vapors, naphtha, natural gas, propane, propylene, styrene, vinyl acetate, vinyl chloride, or xylenes in quantities sufficient to produce explosive or ignitable mixtures and where such concentrations of these gases or vapors exist continuously, intermittently or periodically under normal operating conditions or may exist frequently because of repair, maintenance operations, leakage, breakdown or faulty operation of equipment.

(c) Power-operated industrial trucks designated as DY, EE, or EX may be used in locations where volatile flammable liquids or flammable gases are handled, processed or used, but in which the hazardous liquids, vapors or gases will nor-

mally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or systems, or in the case of abnormal operation of equipment; also in locations in which hazardous concentrations of gases or vapors are normally prevented by positive mechanical ventilation but which might become hazardous through failure or abnormal operation of the ventilating equipment; or in locations which are adjacent to Class I, Division 1 locations, and to which hazardous concentrations of gases or vapors might occasionally be communicated unless such communication is prevented by adequate positive-pressure ventilation from a source of clear air, and effective safeguards against ventilation failure are provided.

(d) In locations used for the storage of hazardous liquids in sealed containers or liquefied or compressed gases in containers, approved power-operated industrial trucks designated as DS, ES, GS, or LPS may be used. This classification includes locations where volatile flammable liquids or flammable gases or vapors are used, but which, would become hazardous only in case of an accident or of some unusual operation condition. The quantity of hazardous material that might escape in case of accident, the adequacy of ventilating equipment, the total area involved, and the record of the industry or business with respect to explosions or fires are all factors that should receive consideration in determining whether or not the DS or DY, ES, EE, GS, LPS designated truck possesses sufficient safeguards for the location. Piping without valves, checks, meters and similar devices would not ordinarily be deemed to introduce a hazardous condition even though used for hazardous liquids or gases. Locations used for the storage of hazardous liquids or of liquefied or compressed gases in sealed containers would not normally be considered hazardous unless subject to other hazardous conditions also.

(i) Only approved power-operated industrial trucks designated as EX shall be used in atmospheres in which combustible dust is or may be in suspension continuously, intermittently, or periodically under normal operating conditions, in quantities sufficient to produce explosive or ignitable mixtures, or where mechanical failure or abnormal operation of machinery or equipment might cause such mixtures to be produced.

(ii) The EX classification usually includes the working areas of grain handling and storage plants, room containing grinders or pulverizers, cleaners, graders, scalpers, open conveyors or spouts, open bins or hoppers, mixers, or blenders, automatic or hopper scales, packing machinery, elevator heads and boots, stock distributors, dust and stock collectors (except all-metal collectors vented to the outside), and all similar dust producing machinery and equipment in grain processing plants, starch plants, sugar pulverizing plants, malting plants, hay grinding plants, and other occupancies of similar nature; coal pulverizing plants (except where the pulverizing equipment is essentially dust tight); all working areas where metal dusts and powders are produced, processed, handled, packed, or stored (except in tight containers); and other similar locations where combustible dust may, under normal operating conditions, be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

(e) Only approved power-operated industrial trucks designated as DY, EE, or EX shall be used in atmospheres in which combustible dust will not normally be in suspension in the air or will not be likely to be thrown into suspension by the normal operation of equipment or apparatus in quantities sufficient to produce explosive or ignitable mixtures but where deposits or accumulations of such dust may be ignited by arcs or sparks originating in the truck.

(f) Only approved power-operated industrial trucks designated as DY, EE, or EX shall be used in locations which are hazardous because of the presence of easily ignitible fibers or flyings but in which such fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitible mixtures.

(g) Only approved power-operated industrial trucks designated as DS, DY, ES, EE, EX, GS, or LPS shall be used in locations where easily ignitible fibers are stored or handled including outside storage, but are not being processed or manufactured. Industrial trucks designated as E, which have been previously used in these locations may be continued in use.

(h) On piers and wharves handling general cargo, any approved power-operated industrial truck designated as Type D, E, G, or LP may be used, or trucks which conform to the requirements for these types may be used.

(i) If storage warehouses and outside storage locations are hazardous only the approved power-operated industrial truck specified for such locations in WAC 296-24-23007(2) shall be used. If not classified as hazardous, any approved power-operated industrial truck designated as Type D, E, G, or LP may be used, or trucks which conform to the requirements for these types may be used.

(j) If general industrial or commercial properties are hazardous, only approved power-operated industrial trucks specified for such locations in this WAC 296-24-23007 shall be used. If not classified as hazardous, any approved power-operated industrial truck designated as Type D, E, G, or LP may be used, or trucks which conform to the requirements of these types may be used.

TABLE N-1

SUMMARY TABLE ON USE OF INDUSTRIAL TRUCKS IN VARIOUS LOCATIONS

(TABLE N-1: Part 1—Unclassified & Class I)

Classes	Unclassified	Class I locations			
Description of classes	Locations not possessing atmospheres as described in other columns.	Locations in which flammable gases or vapors are, or may be, present in the air in quantities sufficient to produce explosive or ignitible mixtures.			
Groups in classes	None	A	B	C	D
Examples of locations or atmospheres in classes and groups	Piers and wharves inside and outside general storage general industrial or commercial properties	Acetylene	Hydrogen	Ethyl ether	Gasoline Naphtha Alcohols Acetone Lacquer solvent Benzene

		1	2
Divisions (nature of hazardous conditions)	None	Above condition exists continuously, intermittently, or periodically under normal operating conditions.	Above condition may occur accidentally as due to a puncture of a storage drum.

(TABLE N-1: Part 2—Class II & III)

Classes	Class II locations		Class III locations	
Description of classes	Locations which are hazardous because of the presence of combustible dust.		Locations where easily ignitible fibers or flyings are present but not likely to be in suspension in quantities sufficient to produce ignitible mixtures.	
Groups in classes	E	F	G	None
Examples of locations or atmospheres in classes and groups	Metal dust	Carbon black Coal dust Coke dust	Grain dust Flour dust Starch dust Organic dust	Baled waste, cocoa fiber, cotton, excelsior, hemp, istle, jute, kapok, oakum, sisal, Spanish moss, synthetic fibers, tow.
	1	2	1	2
Divisions (nature of hazardous conditions)	Explosive mixture may be present under normal operating conditions, or where failure of equipment may cause the condition to exist simultaneously with arcing or sparking of electrical equipment, or where dusts of an electrically conducting nature may be present.	Explosive mixture not normally present, but where deposits of dust may cause heat rise in electrical equipment, or where such deposits may be ignited by arcs or sparks from electrical equipment.	Locations in which easily ignitible fibers or materials producing combustible flyings are handled, manufactured, or used.	Locations in which easily ignitible fibers are stored or handled (except in the process of manufacture).

Authorized uses of trucks by types in groups of classes and divisions

(TABLE N-1: Part 3—Groups in classes, None—A, B, C, and D)

Groups in classes	None	A	B	C	D	A	B	C	D
Types of trucks authorized:									
Diesel:									
Type D	D**								
Type DS									DS
Type DY									DY
Electric:									
Type E	E**								
Type ES									ES
Type EE									EE
Type EX				EX					EX
Gasoline:									
Type G	G**								
Type GS									GS
LP-Gas:									
Type LP	LP**								
Type LPS									LPS
Paragraph Ref. in No. 505	210.211	201(a)		203 (a)		209(a)		204 (a), (b)	

** Trucks conforming to these types may also be used—see WAC 296-24-23007 (2)(h) and (j).
References in parentheses are to the corresponding classification as used in the National Electrical Code (NFPA No. 70, ANSI Standard CI-1968) for the convenience of persons familiar with those classifications.

(TABLE N-1: Part 4—Groups in class—E, F, G, and None)

Groups in classes	E	F	G	E	F	G	None	None
Types of trucks authorized:								
Diesel:								
Type D								
Type DS						DS		DS
Type DY						DY	DY	DY
Electric:								
Type E								E
Type ES						ES		ES
Type EE						EE	EE	EE
Type EX	EX	EX				EX	EX	EX
Gasoline:								
Type G								
Type GS						GS		GS
LP-Gas:								
Type LP								
Type LPS						LPS		LPS
Paragraph Ref. in No. 505	202(a)	205(a)	209(a)		206 (a), (b)		207(a)	208(a)

** Trucks conforming to these types may also be used — see WAC 296-24-23007 (2)(h) and (j).
References in parentheses are to the corresponding classification as used in the National Electrical Code (NFPA No. 70, ANSI Standard CI-1968) for the convenience of persons familiar with those classifications.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-23007, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-23007, filed 5/9/73 and Order 73-4, § 296-24-23007, filed 5/7/73.]

WAC 296-24-23009 Converted industrial trucks. Power-operated industrial trucks that have been originally approved for the use of gasoline for fuel, when converted to the use of liquefied petroleum gas fuel in accordance with WAC 296-24-23035, may be used in those locations where G, GS or LP, and LPS designated trucks have been specified in the preceding sections.

[Order 73-5, § 296-24-23009, filed 5/9/73 and Order 73-4, § 296-24-23009, filed 5/7/73.]

WAC 296-24-23011 Safety guards. (1) High lift rider trucks shall be fitted with an overhead guard manufactured in accordance with WAC 296-24-23003(2), unless operating conditions do not permit.

(2) If the type of load presents a hazard, the user shall equip fork trucks with a vertical load backrest extension manufactured in accordance with WAC 296-24-23003(2).

[Order 73-5, § 296-24-23011, filed 5/9/73 and Order 73-4, § 296-24-23011, filed 5/7/73.]

WAC 296-24-23013 Fuel handling and storage. (1) The storage and handling of liquid fuels such as gasoline and diesel fuel shall be in accordance with NFPA Flammable and Combustible Liquids Code (NFPA No. 30-1969).

(2) The storage and handling of liquefied petroleum gas fuel shall be in accordance with NFPA Storage and Handling of Liquefied Petroleum Gases (NFPA No. 58-1969).

[Order 73-5, § 296-24-23013, filed 5/9/73 and Order 73-4, § 296-24-23013, filed 5/7/73.]

WAC 296-24-23015 Changing and charging storage batteries. (1) Battery charging installations shall be located in areas designated for that purpose.

(2) Facilities shall be provided for flushing and neutralizing spilled electrolyte, for fire protection, for protecting charging apparatus from damage by trucks, and for adequate ventilation for dispersal of fumes from gassing batteries.

(3) When racks are used for support of batteries, they should be made of materials nonconductive to spark generation or be coated or covered to achieve this objective.

(4) A conveyor, overhead hoist, or equivalent material handling equipment shall be provided for handling batteries.

(5) Reinstalled batteries shall be properly positioned and secured in the truck.

(6) A carboy tilter or siphon shall be provided for handling electrolyte.

(7) When charging batteries, acid shall be poured into water; water shall not be poured into acid.

(8) Trucks shall be properly positioned and brake applied before attempting to change or charge batteries.

(9) When charging batteries, the vent caps should be kept in place to avoid electrolyte spray. Care shall be taken to assure that vent caps are functioning. The battery (or compartment) cover(s) shall be open to dissipate heat.

(10) Smoking shall be prohibited in the charging area.

(11) Precautions shall be taken to prevent open flames, sparks, or electric arcs in battery charging areas.

(12) Tools and other metallic objects shall be kept away from the top of uncovered batteries.

[Order 73-5, § 296-24-23015, filed 5/9/73 and Order 73-4, § 296-24-23015, filed 5/7/73.]

WAC 296-24-23017 Lighting for operating areas. (1) Controlled lighting of adequate intensity should be provided in operating areas. (See American National Standard Practice for Industrial Lighting, All.1-1965 (R1970).)

(2) Where general lighting is less than 2 lumens per square foot, auxiliary directional lighting shall be provided on the truck.

[Order 73-5, § 296-24-23017, filed 5/9/73 and Order 73-4, § 296-24-23017, filed 5/7/73.]

WAC 296-24-23019 Control of noxious gases and fumes. (1) Concentration levels of carbon monoxide gas created by powered industrial truck operations shall not exceed the levels specified in WAC 296-62-075 (general occupational health standards).

(2) Questions concerning degree of concentration and methods of sampling to ascertain the conditions should be referred to a qualified industrial hygienist.

[Order 73-5, § 296-24-23019, filed 5/9/73 and Order 73-4, § 296-24-23019, filed 5/7/73.]

WAC 296-24-23021 Dockboards (bridge plates). (1) Portable and powered dockboards shall be strong enough to carry the load imposed on them.

(2) Portable dockboards shall be secured in position, either by being anchored or equipped with devices which will prevent their slipping.

(3) Powered dockboards shall be designed and constructed in accordance with Commercial Standard CS202-56 (1956) "Industrial Lifts and Hinged Loading Ramps" published by the U.S. Department of Commerce.

(4) Handholds, or other effective means, shall be provided on portable dockboards to permit safe handling.

(5) Positive protection shall be provided to prevent railroad cars from being moved while dockboards or bridge plates are in position.

[Order 73-5, § 296-24-23021, filed 5/9/73 and Order 73-4, § 296-24-23021, filed 5/7/73.]

WAC 296-24-23023 Trucks and railroad cars. (1) The brakes of highway trucks shall be set and wheel chocks placed under the rear wheels to prevent the trucks from rolling while they are boarded with powered industrial trucks.

(2) Wheel stops or other recognized positive protection shall be provided to prevent railroad cars from moving during loading or unloading operations.

(3) Fixed jacks may be necessary to support a semitrailer and prevent up-ending during the loading or unloading when the trailer is not coupled to a tractor.

(4) Positive protection shall be provided to prevent railroad cars from being moved while dockboards or bridge plates are in position.

(5) Trucks/trailers equipped with a rear-end protection device to prevent cars from being wedged underneath the rear end during a collision, may facilitate the use of a mechanical means to secure the truck/trailer to the loading dock attaching to the device. Wheel chocks will not be required when the following provisions are utilized:

(a) A positive mechanical means to secure trucks or trailers is permitted, provided that the system is installed and used in a manner that effectively prevents movement away from the dock during loading, unloading, and boarding by handtrucks or powered industrial trucks.

(b) All of the mechanical equipment shall be installed, maintained, and used as recommended by the manufacturer.

(c) Any damaged mechanical equipment shall be removed from service immediately and shall not be used as a means of complying with the requirements to secure trucks and trailers.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-23023, filed 1/10/91, effective 2/12/91; Order 73-5, § 296-24-23023, filed 5/9/73 and Order 73-4, § 296-24-23023, filed 5/7/73.]

WAC 296-24-23025 Operator training. Only trained and authorized operators shall be permitted to operate a powered industrial truck. Methods shall be devised to train operators in the safe operation of powered industrial trucks.

[Order 73-5, § 296-24-23025, filed 5/9/73 and Order 73-4, § 296-24-23025, filed 5/7/73.]

WAC 296-24-23027 Truck operations. (1) Trucks shall not be driven up to anyone standing in front of a bench or other fixed object.

(2) No person shall be allowed to stand or pass under the elevated portion of any truck, whether loaded or empty.

(3) Unauthorized personnel shall not be permitted to ride on powered industrial trucks. A safe place to ride shall be provided where riding of trucks is authorized.

(4) The employer shall prohibit arms or legs from being placed between the uprights of the mast or outside the running lines of the truck.

(5) When leaving a powered industrial truck unattended, load engaging means shall be fully lowered, controls shall be neutralized, power shall be shut off, and brakes set. Wheels blocked if the truck is parked on an incline.

(a) A powered industrial truck is unattended when the operator is 25 feet or more away from the vehicle, which remains in view, or whenever the operator leaves the vehicle and it is not in view.

(b) When the operator of an industrial truck is dismounted and within 25 feet of the truck, still in view, the load engaging means shall be fully lowered, controls neutralized, and the brakes set to prevent movement.

(6) A safe distance shall be maintained from the edge of ramps or platforms while on any elevated dock, or platform or freight car. Trucks shall not be used for opening or closing freight car doors unless the truck is using an approved device specifically designed to open and close doors.

(a) The design of the door opening or closing device shall require the force applied by the device to the door to be in a direction parallel with the door travel.

(b) The truck operator shall be trained in the use of the door opening or closing device and keep the operation in full view while opening or closing.

(c) Employees or other persons will stand clear while the door is being moved with a device.

(7) Brakes shall be set and wheel blocks shall be in place to prevent movement of trucks, trailers, or railroad cars while loading or unloading. Fixed jacks may be necessary to support a semitrailer during loading or unloading when the trailer is not coupled to a tractor. The flooring of trucks, trailers, and railroad cars shall be checked for breaks and weakness before they are driven onto. Mechanical means may be utilized to secure trucks/trailers to loading docks in lieu of wheel chocks to prevent movement (reference WAC 296-24-23023).

(8) There shall be sufficient headroom under overhead installations, lights, pipes, sprinkler system, etc.

(9) An overhead guard shall be used as protection against falling objects. It should be noted that an overhead guard is intended to offer protection from the impact of small packages, boxes, bagged material, etc., representative of the job application, but not to withstand the impact of a falling capacity load.

(10) A load backrest extension shall be used whenever necessary to minimize the possibility of the load or part of it from falling rearward.

(11) Only approved industrial trucks shall be used in hazardous locations.

(12) Whenever a truck is equipped with vertical only, or vertical and horizontal controls elevatable with the lifting carriage or forks for lifting personnel, the following additional precautions shall be taken for the protection of personnel being elevated.

(a) Use of a safety platform firmly secured to the lifting carriage and/or forks.

(b) Means shall be provided whereby personnel on the platform can shut off power to the truck.

(c) Such protection from falling objects as indicated necessary by the operating conditions shall be provided.

(13) Using forklifts as elevated work platforms. A platform or structure built specifically for hoisting persons may be used providing the following requirements are complied with:

(a) The structure must be securely attached to the forks and shall have standard guardrails and toeboards installed on all sides.

(b) The hydraulic system shall be so designed that the lift mechanism will not drop faster than 135 feet per minute in the event of a failure in any part of the system. Forklifts used for elevating work platforms shall be identified that they are so designed.

(c) A safety strap shall be installed or the control lever shall be locked to prevent the boom from tilting.

(d) An operator shall attend the lift equipment while workers are on the platform.

(e) The operator shall be in the normal operating position while raising or lowering the platform.

(f) The vehicle shall not travel from point to point while workers are on the platform except that inching or maneuvering at very slow speed is permissible.

(g) The area between workers on the platform and the mast shall be adequately guarded to prevent contact with chains or other shear points.

(14) Fire aisles, access to stairways, and fire equipment shall be kept clear.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-23027, filed 1/10/91, effective 2/12/91; Order 74-27, § 296-24-23027, filed 5/7/74; Order 73-5, § 296-24-23027, filed 5/9/73 and Order 73-4, § 296-24-23027, filed 5/7/73.]

WAC 296-24-23029 Traveling. (1) All traffic regulations shall be observed, including authorized plant speed limits. A safe distance shall be maintained approximately three truck lengths from the truck ahead, and the truck shall be kept under control at all times.

(2) The right of way shall be yielded to ambulances, fire trucks, or other vehicles in emergency situations.

(3) Other trucks traveling in the same direction at intersections, blind spots, or other dangerous locations shall not be passed.

(4) The driver shall be required to slow down and sound the horn at cross aisles and other locations where vision is obstructed. If the load being carried obstructs forward view, the driver shall be required to travel with the load trailing.

(5) Railroad tracks shall be crossed diagonally wherever possible. Parking closer than 8 feet from the center of railroad tracks is prohibited.

(6) The driver shall be required to look in the direction of, and keep a clear view of the path of travel.

(7) Grades shall be ascended or descended slowly.

(a) When ascending or descending grades in excess of 10 percent, loaded trucks shall be driven with the load upgrade.

(b) Unloaded trucks should be operated on all grades with the load engaging means downgrade.

(c) On all grades the load and load engaging means shall be tilted back if applicable, and raised only as far as necessary to clear the road surface.

(8) Under all travel conditions the truck shall be operated at a speed that will permit it to be brought to a stop in a safe manner.

(9) Stunt driving and horseplay shall not be permitted.

(10) The driver shall be required to slow down for wet and slippery floors.

(11) Dockboard or bridgeplates, shall be properly secured before they are driven over. Dockboard or bridgeplates shall be driven over carefully and slowly and their rated capacity never exceeded.

(12) Elevators shall be approached slowly, and then entered squarely after the elevator car is properly leveled. Once on the elevator, the controls shall be neutralized, power shut off, and the brakes set.

(13) Motorized hand trucks must enter elevator or other confined areas with load end forward.

(14) Running over loose objects on the roadway surface shall be avoided.

(15) While negotiating turns, speed shall be reduced to a safe level, by means of turning the hand steering wheel in a smooth, sweeping motion. Except when maneuvering at a very low speed, the hand steering wheel shall be turned at a moderate, even rate.

[Order 73-5, § 296-24-23029, filed 5/9/73 and Order 73-4, § 296-24-23029, filed 5/7/73.]

WAC 296-24-23031 Loading. (1) Only stable or safely arranged loads shall be handled. Caution shall be exercised when handling off-center loads which cannot be centered.

(2) Only loads within the rated capacity of the truck shall be handled.

(3) The long or high (including multiple-tiered) loads which may affect capacity shall be adjusted.

(4) When attachments are used, particular care should be taken in securing, manipulating, positioning, and transporting the load. Trucks equipped with attachments shall be operated as partially loaded trucks when not handling a load.

(5) A load engaging means shall be placed under the load as far as possible; the mast shall be carefully tilted backward to stabilize the load.

(6) Extreme care shall be used when tilting the load forward or backward, particularly when high tiering. Tilting forward with load engaging means elevated shall be prohibited except to pick up a load. An elevated load shall not be tilted forward except when the load is in a deposit position over a rack or stack. When stacking or tiering, only enough backward tilt to stabilize the load shall be used.

[Order 73-5, § 296-24-23031, filed 5/9/73 and Order 73-4, § 296-24-23031, filed 5/7/73.]

WAC 296-24-23033 Operation of the truck. (1) If at any time a powered industrial truck is found to be in need of repair, defective, or in any way unsafe, the truck shall be taken out of service until it has been restored to safe operating condition.

(2) Fuel tanks shall not be filled while the engine is running. Spillage shall be avoided.

(3) Spillage of oil or fuel shall be carefully washed away or completely evaporated and the fuel tank cap replaced before restarting engine.

(4) No truck shall be operated with a leak in the fuel system until the leak has been corrected.

(5) Open flames shall not be used for checking electrolyte level in storage batteries or gasoline level in fuel tanks.

[Order 73-5, § 296-24-23033, filed 5/9/73 and Order 73-4, § 296-24-23033, filed 5/7/73.]

WAC 296-24-23035 Maintenance of industrial trucks. (1) Any power operated industrial truck not in safe operating condition shall be removed from service. All repairs shall be made by authorized personnel.

(2) No repairs shall be made in Classes I, II, and III locations.

(3) Those repairs to the fuel and ignition systems of industrial trucks which involve fire hazards shall be conducted only in locations designated for such repairs.

(4) Trucks in need of repairs to the electrical system shall have the battery disconnected prior to such repairs.

(5) All parts of any such industrial truck requiring replacement shall be replaced only by parts equivalent as to safety with those used in the original design.

(6) Industrial trucks shall not be altered so that the relative positions of the various parts are different from what they were when originally received from the manufacturer, nor shall they be altered either by the addition of extra parts not provided by the manufacturer or by the elimination of any parts, except as provided in WAC 296-24-23003. Additional counterweighting of fork trucks shall not be done unless approved by the truck manufacturer.

(7) Industrial trucks shall be examined before being placed in service, and shall not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examination shall be made at least daily.

Where industrial trucks are used on a round-the-clock basis, they shall be examined after each shift. Defects when found shall be immediately reported and corrected.

(8) Water mufflers shall be filled daily or as frequently as is necessary to prevent depletion of the supply of water below 75 percent of the filled capacity. Vehicles with mufflers having screens or other parts that may become clogged shall not be operated while such screens or parts are clogged. Any vehicle that emits hazardous sparks or flames from the

exhaust system shall immediately be removed from service, and not returned to service until the cause for the emission of such sparks and flames has been eliminated.

(9) When the temperature of any part of any truck is found to be in excess of its normal operating temperature, thus creating a hazardous condition, the vehicle shall be removed from service and not returned to service until the cause for such overheating has been eliminated.

(10) Industrial trucks shall be kept in a clean condition, free of lint, excess oil, and grease. Noncombustible agents should be used for cleaning trucks. Low flash point (below 100°F.) solvents shall not be used. High flash point (at or above 100°F.) solvents may be used. Precautions regarding toxicity, ventilation, and fire hazard shall be consonant with the agent or solvent used.

(11) Where it is necessary to use antifreeze in the engine cooling system, only those products having glycol base shall be used.

(12) Industrial trucks originally approved for the use of gasoline for fuel may be converted to liquefied petroleum gas fuel provided the complete conversion results in a truck which embodies the features specified for LP or LPS designated trucks. Such conversion equipment shall be approved. The description of the component parts of this conversion system and the recommended method of installation on specific trucks are contained in the "listed by report."

[Order 73-5, § 296-24-23035, filed 5/9/73 and Order 73-4, § 296-24-23035, filed 5/7/73.]

WAC 296-24-233 Motor vehicle trucks and trailers. (1) Only qualified drivers shall be permitted to operate motor vehicle trucks, and shall possess a current motor vehicle operator's license.

(2) Motor vehicle trucks must be equipped with brakes which will safely hold the maximum load on maximum grades.

(3) Trailers must be equipped with good, workable air brakes, or other type of brake equipment approved by the state commission on equipment. Air must be cut into the trailer brake system at the time that the trailer is coupled to the truck.

(4) Brakes on trucks and trailers must be tested before equipment descends a steep grade.

(5) Truck drivers shall at all times operate equipment at a safe speed for roadway conditions.

(6) Safe methods of loading and unloading motor vehicle trucks and trailers shall be observed at all times.

(7) To prevent accidents during the backing of trucks where vision is obstructed, a signalperson shall be stationed at a point giving a clear view of the rear of the truck and the operator of the truck at all times.

(8) Truck drivers shall sound their horn before starting to back, and shall sound the horn intermittently during the entire backing operation.

(9) Dump trucks shall have a device installed on the frame which will be of sufficient strength to hold the bed in the raised position when employees are working in an exposed position underneath.

(10) All parts and accessories of trucks and trailers shall be kept in good repair and safe condition. Tires worn beyond the point of safety shall not be used.

(11) All motor vehicle trucks and trailers shall be equipped with standard lights, horn, flags, flares, etc., to conform to the state of Washington motor vehicles laws.

(12) All loads transported on trucks and/or trucks and trailers shall be properly secured and distributed, and limited to a safe operating load for the condition of the roadway, and the capacity of the bridges, trestles, and other structures.

(13) Precautions to be taken while inflating tires. Unmounted split-rim wheels shall be placed in a safety cage or other device shall be used which will prevent a split-rim from striking the worker if it should dislodge while the tire is being inflated.

(14) Trucks parked on an incline shall have the steered wheels turned into the curb and shall have at least one "driver" wheel chocked on each side, independent of the braking system.

(15) Motor vehicles used regularly for transportation of workers shall be well equipped, covered against the weather and maintained in good mechanical condition at all times.

(a) Seats, which shall be properly secured, shall be provided in each vehicle to accommodate the total number of workers normally transported. Where it becomes necessary under emergency conditions to transport more workers than the seating capacity of the truck will accommodate, all workers not having seats shall ride within the vehicle. Under no circumstances shall workers ride on fenders or running boards of the vehicle.

(b) No workers shall ride in or on any vehicle with legs hanging over the end or sides. A safety bar should be placed across the rear opening of all trucks carrying workers which are not equipped with tail gates.

(c) Vehicles shall be equipped with compartments or screen of such strength to retain sharp tools which could present a hazard to employees being transported.

(d) All dump-trucks used to transport workers shall be equipped with an adequate safety chain or locking device which will eliminate the possibility of the body of the truck being raised while workers are riding in the truck.

(e) Explosives or highly inflammable materials shall not be carried in or on any vehicle while it is used to transport workers.

(f) Exhaust systems shall be installed and maintained in proper condition, and shall be so designed as to eliminate the exposure of the workers to the exhaust gases and fumes.

(g)(i) The number of persons allowed in the cab of a single bench seat crew truck shall not exceed two in addition to the driver. Crew trucks designed and constructed with additional seating capacity behind the normal driver's seat may carry additional passengers in the seating area behind the driver's seat. Crew trucks with bucket-type seats may carry only the number of passengers for which the bucket seats are provided. In any seating arrangement, the driver must be able to maintain full freedom of motion. Additionally, the number of passengers or seating arrangement shall not obstruct the driver's normal vision.

(ii) When trucks are designed and constructed with larger than normal seating capacity in the front seat, the total

number of passengers may be increased provided that the operator's vision and control functions, as required in (15)(g)(i), are maintained.

(h) All enclosed crew trucks shall have an emergency exit in addition to the regular entrance.

(i) Trucks used for hauling gravel shall not be used as crew trucks unless they are equipped as follows:

(i) Steps in proper place or places.

(ii) Wooden floors.

(iii) Seats are securely fastened.

(iv) Truck is properly covered.

(v) All other general regulations covering crew trucks are fully conformed with.

(j) Half-ton vehicles shall haul not more than six persons including driver. Three-quarter-ton vehicles shall haul not more than eight persons including driver.

(k) All vehicles carrying crews shall be equipped with stretchers and fire extinguishers.

(l) No heating units in which there are open fires shall be used in vehicles transporting crews.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-233, filed 7/20/94, effective 9/20/94; Order 76-29, § 296-24-233, filed 9/30/76; Order 76-6, § 296-24-233, filed 3/1/76; Order 75-11, § 296-24-233, filed 4/4/75; Order 74-27, § 296-24-233, filed 5/7/74; Order 73-5, § 296-24-233, filed 5/9/73 and Order 73-4, § 296-24-233, filed 5/7/73.]

WAC 296-24-235 Overhead and gantry cranes.

[Order 73-5, § 296-24-235, filed 5/9/73 and Order 73-4, § 296-24-235, filed 5/7/73.]

WAC 296-24-23501 Definitions. (1) A "crane" is a machine for lifting and lowering a load and moving it horizontally, with the hoisting mechanism and integral part of the machine. Cranes whether fixed or mobile are driven manually or by power.

(2) An "automatic crane" is a crane which when activated operates through a preset cycle or cycles.

(3) A "cab-operated crane" is a crane controlled by an operator in a cab located on the bridge or trolley.

(4) "Cantilever gantry crane" means a gantry or semigantry crane in which the bridge girders or trusses extend transversely beyond the crane runway on one or both sides.

(5) "Floor-operated crane" means a crane which is pendant or nonconductive rope controlled by an operator on the floor or an independent platform.

(6) "Gantry crane" means a crane similar to an overhead crane except that the bridge for carrying the trolley or trolleys is rigidly supported on two or more legs running on fixed rails or other runway.

(7) "Hot metal handling crane" means an overhead crane used for transporting or pouring molten material.

(8) "Overhead crane" means a crane with a movable bridge carrying a movable or fixed hoisting mechanism and traveling on an overhead fixed runway structure.

(9) "Power-operated crane" means a crane whose mechanism is driven by electric, air, hydraulic, or internal combustion means.

(10) A "pulpit-operated crane" is a crane operated from a fixed operator station not attached to the crane.

(11) A "remote-operated crane" is a crane controlled by an operator not in a pulpit or in the cab attached to the crane, by any method other than pendant or rope control.

(12) A "semigantry crane" is a gantry crane with one end of the bridge rigidly supported on one or more legs that run on a fixed rail or runway, the other end of the bridge being supported by a truck running on an elevated rail or runway.

(13) "Storage bridge crane" means a gantry type crane of long span usually used for bulk storage of material; the bridge girders or trusses are rigidly or nonrigidly supported on one or more legs. It may have one or more fixed or hinged cantilever ends.

(14) "Wall crane" means a crane having a jib with or without trolley and supported from a side wall or line of columns of a building. It is a traveling type and operates on a runway attached to the side wall or columns.

(15) "Appointed" means assigned specific responsibilities by the employer or the employer's representative.

(16) "ANSI" means the American National Standards Institute.

(17) An "auxiliary hoist" is a supplemental hoisting unit of lighter capacity and usually higher speed than provided for the main hoist.

(18) A "brake" is a device used for retarding or stopping motion by friction or power means.

(19) A "drag brake" is a brake which provides retarding force without external control.

(20) A "holding brake" is a brake that automatically prevents motion when power is off.

(21) "Bridge" means that part of a crane consisting of girders, trucks, end ties, footwalks, and drive mechanism which carries the trolley or trollies.

(22) "Bridge travel" means the crane movement in a direction parallel to the crane runway.

(23) A "bumper" (buffer) is an energy absorbing device for reducing impact when a moving crane or trolley reaches the end of its permitted travel; or when two moving cranes or trolleys come in contact.

(24) The "cab" is the operator's compartment on a crane.

(25) "Clearance" means the distance from any part of the crane to a point of the nearest obstruction.

(26) "Collectors" (current) are contacting devices for collecting current from runway or bridge conductors.

(27) "Conductors, bridge" are the electrical conductors located along the bridge structure of a crane to provide power to the trolley.

(28) "Conductors, runway" (main) are the electrical conductors located along a crane runway to provide power to the crane.

(29) The "control braking means" is a method of controlling crane motor speed when in an overhauling condition.

(30) "Countertorque" means a method of control by which the power to the motor is reversed to develop torque in the opposite direction.

(31) "Dynamic" means a method of controlling crane motor speeds when in the overhauling condition to provide a retarding force.

(32) "Regenerative" means a form of dynamic braking in which the electrical energy generated is fed back into the power system.

(33) "Mechanical" means a method of control by friction.

(34) "Controller, spring return" means a controller which when released will return automatically to a neutral position.

(35) "Designated" means selected or assigned by the employer or the employer's representative as being qualified to perform specific duties.

(36) A "drift point" means a point on a travel motion controller which releases the brake while the motor is not energized. This allows for coasting before the brake is set.

(37) The "drum" is the cylindrical member around which the ropes are wound for raising or lowering the load.

(38) An "equalizer" is a device which compensates for unequal length or stretch of a rope.

(39) "Exposed" means capable of being contacted inadvertently. Applied to hazardous objects not adequately guarded or isolated.

(40) "Fail-safe" means a provision designed to automatically stop or safely control any motion in which a malfunction occurs.

(41) "Footwalk" means the walkway with handrail, attached to the bridge or trolley for access purposes.

(42) A "hoist" is an apparatus which may be a part of a crane, exerting a force for lifting or lowering.

(43) "Hoist chain" means the load bearing chain in a hoist.

Note: Chain properties do not conform to those shown in ANSI B30.9-1971, Safety Code for Slings.

(44) "Hoist motion" means that motion of a crane which raises and lowers a load.

(45) "Load" means the total superimposed weight on the load block or hook.

(46) The "load block" is the assembly of hook or shackle, swivel, bearing, sheaves, pins, and frame suspended by the hoisting rope.

(47) "Magnet" means an electromagnetic device carried on a crane hook to pick up loads magnetically.

(48) "Main hoist" means the hoist mechanism provided for lifting the maximum rated load.

(49) A "man trolley" is a trolley having an operator's cab attached thereto.

(50) "Rated load" means the maximum load for which a crane or individual hoist is designed and built by the manufacturer and shown on the equipment nameplate(s).

(51) "Rope" refers to wire rope, unless otherwise specified.

(52) "Running sheave" means a sheave which rotates as the load block is raised or lowered.

(53) "Runway" means an assembly of rails, beams, girders, brackets, and framework on which the crane or trolley travels.

(54) "Side pull" means that portion of the hoist pull acting horizontally when the hoist lines are not operated vertically.

(55) "Span" means the horizontal distance center to center of runway rails.

(56) "Standby crane" means a crane which is not in regular service but which is used occasionally or intermittently as required.

(57) A "stop" is a device to limit travel of a trolley or crane bridge. This device normally is attached to a fixed structure and normally does not have energy absorbing ability.

(58) A "switch" is a device for making, breaking, or for changing the connections in an electric circuit.

(59) An "emergency stop switch" is a manually or automatically operated electric switch to cut off electric power independently of the regular operating controls.

(60) A "limit switch" is a switch which is operated by some part or motion of a power-driven machine or equipment to alter the electric circuit associated with the machine or equipment.

(61) A "main switch" is a switch controlling the entire power supply to the crane.

(62) A "master switch" is a switch which dominates the operation of contractors, relays, or other remotely operated devices.

(63) The "trolley" is the unit which travels on the bridge rails and carries the hoisting mechanism.

(64) "Trolley travel" means the trolley movement at right angles to the crane runway.

(65) "Truck" means the unit consisting of a frame, wheels, bearings, and axles which supports the bridge girders or trolleys.

[Order 73-5, § 296-24-23501, filed 5/9/73 and Order 73-4, § 296-24-23501, filed 5/7/73.]

WAC 296-24-23503 General requirements. (1) Application. This section applies to overhead and gantry cranes, including semigantry, cantilever gantry, wall cranes, storage bridge cranes, and others having the same fundamental characteristics. These cranes are grouped because they all have trolleys and similar travel characteristics.

(2) New and existing equipment. All new overhead and gantry cranes constructed and installed on or after the effective date of these standards, shall meet the design specifications of the American National Standards Institute, Safety Code for Overhead and Gantry Cranes, ANSI B30.2.0-1967. Overhead and gantry cranes constructed before the effective date of these standards, should be modified to conform to those design specifications, unless it can be shown that the crane cannot feasibly or economically be altered and that the crane substantially complies with the requirements of this section. (See WAC 296-24-010 variance and procedure.)

(3) Modifications. Cranes may be modified and rerated provided such modifications and the supporting structure are checked thoroughly for the new rated load by a qualified engineer or the equipment manufacturer. The crane shall be tested in accordance with WAC 296-24-23521(2). New rated load shall be displayed in accordance with (5) of this section.

(4) Wind indicators and rail clamps.

(a) Outdoor storage bridges shall be provided with automatic rail clamps. A wind-indicating device shall be provided which will give a visible or audible alarm to the bridge operator at a predetermined wind velocity. If the clamps act on the rail heads, any beads or weld flash on the rail heads shall be ground off.

(b) Calculations for wind pressure on outside overhead traveling cranes shall be based on not less than 30 pounds per square foot of exposed surface.

(5) Rated load marking. The rated load of the crane shall be plainly marked on each side of the crane, and if the crane has more than one hoisting unit, each hoist shall have its rated load marked on it or its load block and this marking shall be clearly legible from the ground or floor.

(6) Clearance from obstruction.

(a) Minimum clearance of 3 inches overhead and 2 inches laterally shall be provided and maintained between crane and obstructions in conformity with Specification No. 61 Crane Manufactures Association of America, Inc., 8720 Red Oak Blvd., Suite 201, Charlotte, NC 28217.

(b) Where passageways or walkways are provided obstructions shall not be placed so that safety of personnel will be jeopardized by movements of the crane.

(7) Clearance between parallel cranes. If the runways of two cranes are parallel, and there are no intervening walls or structure, there shall be adequate clearance provided and maintained between the two bridges.

(8) Designated personnel. Only designated personnel shall be permitted to operate a crane covered by this section.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23503, filed 7/20/94, effective 9/20/94; Order 74-27, § 296-24-23503, filed 5/7/74; Order 73-5, § 296-24-23503, filed 5/9/73 and Order 73-4, § 296-24-23503, filed 5/7/73.]

WAC 296-24-23505 Cabs. (1) Cab location.

(a) The general arrangement of the cab and the location of control and protective equipment shall be such that all operating handles are within convenient reach of the operator when facing the area to be served by the load hook, or while facing the direction of travel of the cab. The arrangement shall allow the operator a full view of the load hook in all positions.

(b) The cab shall be located to afford a minimum of 3 inches clearance from all fixed structures within its area of possible movement.

(c) The clearance of the cab above the working floor or passageway should be not less than seven feet.

(2) Access to crane. Access to the cab and/or bridge walkway shall be by a conveniently placed fixed ladder, stairs, or platform, requiring no step over any gap exceeding 12 inches. Fixed ladders shall be in conformance with the American National Standards Institute, Safety Code for Fixed Ladders, ANSI A14.3-1956.

(3) Fire extinguisher. A carbon dioxide, dry-chemical, or equivalent hand fire extinguisher should be kept in the cab. Carbon tetrachloride extinguishers shall not be used.

(4) Lighting. Light in the cab shall be sufficient to enable the operator to see clearly enough to perform the work.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23505, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-23505, filed 5/9/73 and Order 73-4, § 296-24-23505, filed 5/7/73.]

WAC 296-24-23507 Footwalks and ladders. (1) Location of footwalks.

(a) If sufficient headroom is available on cab-operated cranes, a footwalk shall be provided on the drive side along the entire length of the bridge of all cranes having the trolley running on the top of the girders. To give sufficient access to the opposite side of the trolley, there should be provided either a footwalk mounted on the trolley, a suitable footwalk or platform in the building, or a footwalk on the opposite side of the crane at least twice the length of the trolley.

(b) Footwalks should be located to give a headroom not less than 78 inches. In no case shall less than 48 inches be provided. If 48 inches of headroom cannot be provided, footwalks should be omitted from the crane and a stationary platform or landing stage built for workers making repairs.

(2) Construction of footwalks.

(a) Footwalks shall be of rigid construction and designed to sustain a distributed load of at least 50 pounds per square foot.

(b) Footwalks shall have a walking surface of antislip type.

Note: Wood will meet this requirement.

(c) Footwalks should be continuous and permanently secured.

(d) Footwalks should have a clear passageway at least 18 inches wide except opposite the bridge motor, where they should be not less than 15 inches. The inner edge shall extend at least to the line of the outside edge of the lower cover plate or flange of the girder.

(3) Toeboards and handrails for footwalks. Toeboards and handrails shall be in compliance with WAC 296-24-750 through 296-24-75011.

(4) Ladders and stairways.

(a) Gantry cranes shall be provided with ladders or stairways extending from the ground to the footwalk or cab platform.

(b) Stairways shall be equipped with rigid and substantial metal handrails. Walking surfaces shall be of an antislip type.

(c) Ladders shall be permanently and securely fastened in place and shall be constructed in compliance with WAC 296-24-810 through 296-24-81011.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23507, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-23507, filed 5/9/73 and Order 73-4, § 296-24-23507, filed 5/7/73.]

WAC 296-24-23509 Stops, bumpers, rail sweeps, and guards. (1) Trolley stops.

(a) Stops shall be provided at the limits of travel of the trolley.

(b) Stops shall be fastened to resist forces applied when contacted.

(c) A stop engaging the tread of the wheel shall be of a height at least equal to the radius of the wheel.

(2) Bridge bumpers.

(a) A crane shall be provided with bumpers or other automatic means providing equivalent effect, unless the crane travels at a slow rate of speed and has a faster deceleration rate due to the use of sleeve bearings, or is not operated near the ends of bridge and trolley travel, or is restricted to a limited distance by the nature of the crane operation and there is no hazard of striking any object in this limited distance or is used in similar operating conditions. The bumpers shall be capable of stopping the crane (not including the lifted load) at an average rate of deceleration not to exceed 3 ft/s/s when

traveling in either direction at 20 percent of the rated load speed.

(i) The bumpers shall have sufficient energy absorbing capacity to stop the crane when traveling at a speed of at least 40 percent of rated load speed.

(ii) The bumpers shall be so mounted that there is no direct shear on bolts.

(iii) Bumpers shall be so designed and installed as to minimize parts falling from the crane in case of breakage.

(3) Trolley bumpers.

(a) A trolley shall be provided with bumpers or other automatic means of equivalent effect, unless the trolley travels at a slow rate of speed, or is not operated near the ends of bridge and trolley travel, or is restricted to a limited distance of the runway and there is no hazard of striking any object in this limited distance, or is used in similar operating conditions. The bumpers shall be capable of stopping the trolley (not including the lifted load) at an average rate of deceleration not to exceed 4.7 ft./s/s when traveling in either direction at one-third of the rated load speed.

(i) When more than one trolley is operated on the same bridge, each shall be equipped with bumpers or equivalent on their adjacent ends.

(b) Bumpers or equivalent shall be designed and installed to minimize parts falling from the trolley in case of age.

(4) Rail sweeps. Bridge trucks shall be equipped with sweeps which extend below the top of the rail and project in front of the truck wheels.

(5) Guards for hoisting ropes.

(a) If hoisting ropes run near enough to other parts to make fouling or chafing possible, guards shall be installed to prevent this condition.

(b) A guard shall be provided to prevent contact between bridge conductors and hoisting ropes if they could come into contact.

(6) Guards for moving parts.

(a) Exposed moving parts such as gears, set screws, projecting keys, chains, chain sprockets, and reciprocating components which might constitute a hazard under normal operating conditions shall be guarded.

(b) Guards shall be securely fastened.

(c) Each guard shall be capable of supporting without permanent distortion the weight of a 200-pound person unless the guard is located where it is impossible for a person to step on it.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-23509, filed 11/13/80; Order 74-27, § 296-24-23509, filed 5/7/74; Order 73-5, § 296-24-23509, filed 5/9/73 and Order 73-4, § 296-24-23509, filed 5/7/73.]

WAC 296-24-23511 Brakes. (1) Brakes for hoists.

(a) Each independent hoisting unit of a crane shall be equipped with at least one self-setting brake, hereafter referred to as a holding brake, applied directly to the motor shaft or some part of the gear train.

(b) Each independent hoisting unit of a crane, except worm-geared hoists, the angle of whose worm is such as to prevent the load from accelerating in the lowering direction shall, in addition to a holding brake, be equipped with control braking means to prevent overspeeding.

(2) Holding brakes.

(a) Holding brakes for hoist motors shall have not less than the following percentage of the full load hoisting torque at the point where the brake is applied.

(i) 125 percent when used with a control braking means other than mechanical.

(ii) 100 percent when used in conjunction with a mechanical control braking means.

(iii) 100 percent each if two holding brakes are provided.

(b) Holding brakes on hoists shall have ample thermal capacity for the frequency of operation required by the service.

(c) Holding brakes on hoists shall be applied automatically when power is removed.

(d) Where necessary holding brakes shall be provided with adjustment means to compensate for wear.

(e) The wearing surface of all holding-brake drums or discs shall be smooth.

(f) Each independent hoisting unit of a crane handling hot metal and having power control braking means shall be equipped with at least two holding brakes.

(3) Control braking means.

(a) A power control braking means such as regenerative, dynamic or countertorque braking, or a mechanically controlled braking means shall be capable of maintaining safe lowering speeds of rated loads.

(b) The control braking means shall have ample thermal capacity for the frequency of operation required by service.

(4) Brakes for trolleys and bridges.

(a) Foot operated brakes shall not require an applied force of more than 70 pounds to develop manufacturer's rated brake torque.

(b) Brakes may be applied by mechanical, electrical, pneumatic, hydraulic, or gravity means.

(c) Where necessary brakes shall be provided with adjustment means to compensate for wear.

(d) The wearing surface of all brake drums or discs shall be smooth.

(e) All foot-brake pedals shall be constructed so that the operator's foot will not easily slip off the pedal.

(f) Foot-operated brakes shall be equipped with automatic means for positive release when pressure is released from the pedal.

(g) Brakes for stopping the motion of the trolley or bridge shall be of sufficient size to stop the trolley or bridge within a distance in feet equal to 10 percent of full load speed in feet per minute when traveling at full speed with full load.

(h) If holding brakes are provided on the bridge or trolley(s), they shall not prohibit the use of a drift point in the control circuit.

(i) Brakes on trolleys and bridges shall have ample thermal capacity for the frequency of operation required by the service to prevent impairment of functions from overheating.

(5) Application of trolley brakes.

(a) On cab-operated cranes with cab on trolley, a trolley brake shall be required as specified under (4) of this section.

(b) A drag brake may be applied to hold the trolley in a desired position on the bridge and to eliminate creep with the power off.

(6) Application of bridge brakes.

(a) On cab-operated cranes with cab on bridge, a bridge brake is required as specified under (4) of this section.

(b) On cab-operated cranes with cab on trolley, a bridge brake of the holding type shall be required.

(c) On all floor, remote and pulpit-operated crane bridge drives, a brake or noncoasting mechanical drive shall be provided.

[Order 73-5, § 296-24-23511, filed 5/9/73 and Order 73-4, § 296-24-23511, filed 5/7/73.]

WAC 296-24-23513 Electric equipment. (1) General.

(a) Wiring and equipment shall comply with chapter 296-24 WAC Part L.

(b) The control circuit voltage shall not exceed 600 volts for a.c. or d.c. current.

(c) The voltage at pendant pushbuttons shall not exceed 150 volts for a.c. and 300 volts for d.c.

(d) Where multiple conductor cable is used with a suspended pushbutton station, the station shall be supported in a manner that will protect the electrical conductors against strain.

(e) Pendant control boxes shall be constructed to prevent electrical shock and shall be clearly marked for identification of functions.

(2) Equipment.

(a) Electrical equipment shall be so located or enclosed that live parts will not be exposed to accidental contact under normal operating conditions.

(b) Electric equipment shall be protected from dirt, grease, oil, and moisture.

(c) Guards for live parts shall be substantial and so located that they cannot be accidentally deformed so as to make contact with the live parts.

(3) Controllers.

(a) Cranes not equipped with spring-return controllers or momentary contact pushbuttons shall be provided with a device which will disconnect all motors from the line on failure of power and will not permit any motor to be restarted until the controller handle is brought to the "off" position, or a reset switch or button is operated.

(b) Lever operated controllers shall be provided with a notch or latch which in the "off" position prevents the handle from being inadvertently moved to the "on" position. An "off" detent or spring return arrangement is acceptable.

(c) The controller operating handle shall be located within convenient reach of the operator.

(d) As far as practicable, the movement of each controller handle shall be in the same general directions as the resultant movements of the load.

(e) The control for the bridge and trolley travel shall be so located that the operator can readily face the direction of travel.

(f) For floor-operated cranes, the controller or controllers if rope operated, shall automatically return to the "off" position when released by the operator.

(g) Pushbuttons in pendant stations shall return to the off position when pressure is released by the crane operator.

(h) Automatic cranes shall be so designed that all motions shall fail-safe if any malfunction of operation occurs.

(i) Remote-operated cranes shall function so that if the control signal for any crane motion becomes ineffective the crane motion shall stop.

(4) Resistors.

(a) Enclosures for resistors shall have openings to provide adequate ventilation, and shall be installed to prevent the accumulation of combustible matter near hot parts.

(b) Resistor units shall be supported so as to be free as possible from vibration.

(c) Provision shall be made to prevent broken parts or molten metal falling upon the operator or from the crane.

(5) Switches.

(a) The power supply to the runway conductors shall be controlled by a switch or circuit breaker located on a fixed structure, accessible from the floor, and arranged to be locked in the open position.

(b) On cab-operated cranes a switch or circuit breaker of the enclosed type, with provision for locking in the open position shall be provided in the leads from the runway conductors. A means of opening this switch or circuit breaker shall be located within easy reach of the operator.

(c) On floor-operated cranes, a switch or circuit breaker of the enclosed type, with provision for locking in the open position, shall be provided in the leads from the runway conductors. This disconnect shall be mounted on the bridge or footwalk near the runway collectors. One of the following types of floor operated disconnects shall be provided:

(i) Nonconductive rope attached to the main disconnect switch.

(ii) An undervoltage trip for the main circuit breaker operated by an emergency stop button in the pendant pushbutton station.

(iii) A main line contactor operated by a switch or pushbutton in the pendant pushbutton station.

(d) The hoisting motion of all electric traveling cranes shall be provided with an overtravel limit switch in the hoisting direction.

(e) All cranes using a lifting magnet shall have a magnet circuit switch of the enclosed type with provision for locking in the open position. Means for discharging the inductive load of the magnet shall be provided.

(6) Runway conductors. Conductors of the open type mounted on the crane runway beams or overhead shall be so located or so guarded that persons entering or leaving the cab or crane footwalk normally could not come into contact with them.

(7) Extension lamps. If a service receptacle is provided in the cab or on the bridge of cab-operated cranes, it shall be a grounded three-prong type permanent receptacle, not exceeding 300 volts.

(8) Floor operated cranes.

(a) An unobstructed aisle not less than three feet wide shall be maintained for travel of the operator except in such cases where the control handles are hung from the trolleys of traveling cranes.

(b) The handles of control ropes shall be distinctly different in contour so that, without looking, the operator will know which is the hoisting and which is the lowering handle. The direction of all movements of the crane shall be clearly indicated in some manner so that the operator can easily become familiar with them.

(c) When repairing runways, repairpersons shall place rail stops and warning signs or signals so as to protect both ends of the section to be repaired.

(d) Repairpersons shall take care to prevent loose parts from falling or being thrown upon the floor beneath.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-23513, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-23513, filed 5/9/73 and Order 73-4, § 296-24-23513, filed 5/7/73.]

WAC 296-24-23515 Hoisting equipment. (1) Sheaves.

(a) Sheave grooves shall be smooth and free from surface defects which could cause rope damage.

(b) Sheaves carrying ropes which can be momentarily unloaded shall be provided with close-fitting guards or other suitable devices to guide the rope back into the groove when the load is applied again.

(c) The sheaves in the bottom block shall be equipped with close-fitting guards that will prevent ropes from becoming fouled when the block is laying on the ground with ropes loose.

(d) Pockets and flanges of sheaves used with hoist chains shall be of such dimensions that the chain does not catch or bind during operation.

(e) All running sheaves shall be equipped with means for lubrication. Permanently lubricated, sealed and/or shielded bearings meet this requirement.

(2) Ropes.

(a) In using hoisting ropes, the crane manufacturer's recommendation shall be followed. The rated load divided by the number of parts of rope shall not exceed 20 percent of the nominal breaking strength of the rope.

(b) Socketing shall be done in the manner specified by the manufacturer of the assembly.

(c) Rope shall be secured to the drum as follows:

(i) No less than two wraps of rope shall remain on the drum when the hook is in its extreme low position.

(ii) Rope end shall be anchored by a clamp securely attached to the drum, or by a socket arrangement approved by the crane or rope manufacturer.

(d) Rope clips attached with U-bolts shall have the U-bolts on the dead or short end of the rope. Spacing and number of all types of clips shall be in accordance with (2)(e) of this section. Clips shall be drop-forged steel in all sizes manufactured commercially. When a newly installed rope has been in operation for an hour, all nuts on the clip bolts shall be retightened.

(e)

Diameter of Rope	Number of Clips Required	Space Between Clips
1 1/2 inch	8	10 inches
1 3/8 inch	7	9 inches
1 1/4 inch	6	8 inches
1 1/8 inch	5	7 inches
1 inch	5	6 inches
7/8 inch	5	5 1/4 inches
3/4 inch	5	4 1/2 inches
3/8 to 5/8 inch	4	3 inches

(f) Swaged or compressed fittings shall be applied as recommended by the rope or crane manufacturer.

(g) Wherever exposed to temperatures, at which fiber cores would be damaged, rope having an independent wire-rope or wire-strand core, or other temperature-damage resistant core shall be used.

(h) Replacement rope shall be the same size, grade, and construction as the original rope furnished by the crane manufacturer, unless otherwise recommended by a wire rope manufacturer due to actual working condition requirements.

(3) Equalizers. If a load is supported by more than one part of rope, the tension in the parts shall be equalized.

(4) Hooks. Hooks shall meet the manufacturer's recommendations and shall not be overloaded. Safety latch-type hooks shall be used or the hook shall be moused.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-23515, filed 11/13/80. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-23515, filed 7/31/79; Order 73-5, § 296-24-23515, filed 5/9/73 and Order 73-4, § 296-24-23515, filed 5/7/73.]

WAC 296-24-23517 Warning device. Except for floor operated cranes a gong or other effective warning signal shall be provided for each crane equipped with a powered traveling mechanism.

[Order 73-5, § 296-24-23517, filed 5/9/73 and Order 73-4, § 296-24-23517, filed 5/7/73.]

WAC 296-24-23519 Inspection. (1) Inspection classification.

(a) Initial inspection. Prior to initial use all new and altered cranes shall be inspected to insure compliance with the provisions of these standards.

(b) Inspection procedure for cranes in regular service is divided into two general classifications based upon the intervals at which inspection should be performed. The intervals in turn are dependent upon the nature of the critical components of the crane and the degree of their exposure to wear, deterioration, or malfunction. The two general classifications are herein designated as "frequent" and "periodic" with respective intervals between inspections as defined below:

(i) Frequent inspection - daily to monthly intervals.

(ii) Periodic inspection - 1 to 12 month intervals.

(2) Frequent inspection. The following items shall be inspected for defects at intervals as defined in (1)(b) of this section or as specifically indicated, including observation during operation for any defects which might appear between regular inspections. All deficiencies such as listed shall be carefully examined and determination made as to whether they constitute a safety hazard:

(a) All functional operating mechanisms for maladjustment interfering with proper operation. Daily.

(b) Deterioration or leakage in lines, tanks, valves, drain pumps, and other parts of air or hydraulic systems. Daily.

(c) Hooks with deformation or cracks. Visual inspection daily; monthly inspection with signed reports. For hooks with

cracks or having more than 15 percent in excess of normal throat opening or more than 10° twist from the plane of the unbent hook refer to WAC 296-24-23523 (3)(c)(i).

(d) Hoist or load attachment chains, including end connections, for excessive wear, twist, distorted links interfering with proper function, or stretch beyond manufacturer's recommendations. Visual inspection daily; monthly inspection with signed report.

(e) Rope slings, including end connections, for excessive wear, broken wires, stretch, kinking, or twisting. Visual inspection daily; monthly inspection with signed report.

(f) All functional operating mechanisms for excessive wear of components.

(g) Rope reeving for noncompliance with manufacturer's recommendations.

(3) Periodic inspection. Complete inspections of the crane shall be performed at intervals as generally defined in (l)(b)(ii) of this section, depending upon its activity, severity of service, and environment, or as specifically indicated below. These inspections shall include the requirements of (2) of this section and in addition, the following items. Any deficiencies such as listed shall be carefully examined and determination made as to whether they constitute a safety hazard:

(a) Deformed, cracked, or corroded members.

(b) Loose bolts or rivets.

(c) Cracked or worn sheaves and drums.

(d) Worn, cracked or distorted parts such as pins, bearings, shafts, gears, rollers, locking and clamping devices.

(e) Excessive wear on brake system parts, linings, pawls, and ratchets.

(f) Load, wind, and other indicators over their full range, for any significant inaccuracies.

(g) Gasoline, diesel, electric, or other powerplants for improper performance or noncompliance with applicable safety requirements.

(h) Excessive wear of chain drive sprockets and excessive chain stretch.

(i) Crane hooks. Magnetic particle or other suitable crack detecting inspection should be performed at least once each year.

(j) Electrical apparatus, for signs of pitting or any deterioration of controller contactors, limit switches and pushbutton stations.

(4) Cranes not in regular use.

(a) A crane which has been idle for a period of 1 month or more, but less than 6 months, shall be given an inspection conforming with requirements of (2) of this section and WAC 296-24-23525(2), before placing in service.

(b) A crane which has been idle for a period of over 6 months shall be given a complete inspection conforming with requirements of (2) and (3) of this section and WAC 296-24-23525(2) before placing in service.

(c) Standby cranes shall be inspected at least semi-annually in accordance with requirements of (2) of this section and WAC 296-24-23525(2). Standby cranes exposed to adverse environment should be inspected more frequently.

[Order 73-5, § 296-24-23519, filed 5/9/73 and Order 73-4, § 296-24-23519, filed 5/7/73.]

WAC 296-24-23521 Testing. (1) Operational tests.

(a) Prior to initial use all new and altered cranes shall be tested to insure compliance with this section including the following functions:

(i) Hoisting and lowering.

(ii) Trolley travel.

(iii) Bridge travel.

(iv) Limit switches, locking and safety devices.

(b) The trip setting of hoist limit switches shall be determined by tests with an empty hook traveling in increasing speeds up to the maximum speed. The actuating mechanism of the limit switch shall be located so that it will trip the switch, under all conditions, in sufficient time to prevent contact of the hook or hook block with any part of the trolley.

(2) Rated load test. Prior to initial use all new, extensively repaired, and altered cranes should be tested by or under the direction of an appointed or authorized person, confirming the load rating of the crane. The load rating should not be more than 80 percent of the maximum load sustained during the test. Test loads shall not be more than 125 percent of the rated load unless otherwise recommended by the manufacturer. The tests reports shall be placed on file where readily available to appointed personnel.

[Order 73-5, § 296-24-23521, filed 5/9/73 and Order 73-4, § 296-24-23521, filed 5/7/73.]

WAC 296-24-23523 Maintenance. (1) Preventive maintenance. A preventive maintenance program based on the crane manufacturer's recommendations shall be established.

(2) Maintenance procedure.

(a) Before adjustments and repairs are started on a crane the following precautions shall be taken:

(i) The crane to be repaired shall be run to a location where it will cause the least interference with other cranes and operations in the area.

(ii) All controllers shall be at the off position.

(iii) The main or emergency switch shall be open and locked in the open position.

(iv) Warning or "out of order" signs shall be placed on the crane, also on the floor beneath or on the hook where visible from the floor.

(v) Where other cranes are in operation on the same runway, rail stops or other suitable means shall be provided to prevent interference with the idle crane.

(vi) Where temporary protective rail stops are not available, or practical, a signalperson should be placed at a visual vantage point for observing the approach of an active crane and warning its operator when reaching the limit of safe distance from the idle crane.

(b) After adjustments and repairs have been made the crane shall not be operated until all guards have been reinstalled, safety devices reactivated and maintenance equipment removed.

(3) Adjustments and repairs.

(a) Any unsafe conditions disclosed by the inspection requirements of WAC 296-24-23519 shall be corrected before operation of the crane is resumed. Adjustments and repairs shall be done only by designated personnel.

(b) Adjustments shall be maintained to assure correct functioning of components. The following are examples:

(i) All functional operating mechanisms.

(ii) Limit switches.

(iii) Control systems.

(iv) Brakes.

(v) Power plants.

(c) Repairs or replacements shall be provided promptly as needed for safe operation. The following are examples:

(i) Accessory components, such as hooks, shall be carefully examined periodically and at the time of annual examination and inspection. Cracked or deformed hooks shall be discarded immediately and not reused on any equipment subject to the provisions of this code.

(ii) Load attachment chains and rope slings showing defects described in WAC 296-24-23519 (2)(d) and (e) respectively.

(iii) All critical parts which are cracked, broken, bent, or excessively worn.

(iv) Pendant control stations shall be kept clean and function labels kept legible.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23523, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-23523, filed 5/9/73 and Order 73-4, § 296-24-23523, filed 5/7/73.]

WAC 296-24-23525 Rope inspection. (1) Running ropes. A thorough inspection of all ropes shall be made at least once a month and a full written, dated, and signed report of rope condition kept on file where readily available to appointed personnel. Any deterioration, resulting in appreciable loss of original strength, such as described below, shall be carefully noted and determination made as to whether further use of the rope would constitute a safety hazard:

(a) Reduction of rope diameter below nominal diameter due to loss of core support, internal or external corrosion, or wear of outside wires.

(b) A number of broken outside wires and the degree of distribution or concentration of such broken wires.

(c) Worn outside wires.

(d) Corroded or broken wires at end connections.

(e) Corroded, cracked, bent, worn, or improperly applied end connections.

(f) Severe kinking, crushing, cutting, or unstranding.

(2) Other ropes. All rope which has been idle for a period of a month or more due to shutdown or storage of a crane on which it is installed shall be given a thorough inspection before it is placed in service. This inspection shall be for all types of deterioration and shall be performed by an appointed person whose approval shall be required for further use of the rope. A written and dated report of the rope condition shall be available for inspection.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-23525, filed 11/13/80; Order 73-5, § 296-24-23525, filed 5/9/73 and Order 73-4, § 296-24-23525, filed 5/7/73.]

WAC 296-24-23527 Handling the load. (1) Size of load. The crane shall not be loaded beyond its rated load except for test purposes as provided in WAC 296-24-23521.

(2) Attaching the load.

(a) The hoist chain or hoist rope shall be free from kinks or twists and shall not be wrapped around the load.

(b) The load shall be attached to the load block hook by means of slings or other approved devices.

(c) Care shall be taken to make certain that the sling clears all obstacles.

(3) Moving the load.

(a) The load shall be well secured and properly balanced in the sling or lifting device before it is lifted more than a few inches.

(b) Before starting to hoist the following conditions shall be noted:

(i) Hoist rope shall not be kinked.

(ii) Multiple part lines shall not be twisted around each other.

(iii) The hook shall be brought over the load in such a manner as to prevent swinging.

(c) During hoisting care shall be taken that:

(i) There is no sudden acceleration or deceleration of the moving load.

(ii) The load does not contact any obstructions.

(d) Cranes shall not be used for side pulls except when specifically authorized by a responsible person who has determined that the stability of the crane is not thereby endangered and that various parts of the crane will not be overstressed.

(e) While any employee is on the load or hook, there shall be no hoisting, lowering, or traveling.

(f) The employer shall require that the operator avoid carrying loads over people.

(g) The operator shall test the brakes each time a load approaching the rated load is handled. The brakes shall be tested by raising the load a few inches and applying the brakes.

(h) The load shall not be lowered below the point where less than two full wraps of rope remain on the hoisting drum.

(i) When two or more cranes are used to lift a load one qualified responsible person shall be in charge of the operation. The qualified person shall analyze the operation and instruct all personnel involved in the proper positioning, rigging of the load, and the movements to be made.

(j) The employer shall assure that the operator does not leave the control position while the load is suspended.

(k) When starting the bridge and when the load or hook approaches near or over personnel, the warning signal shall be sounded.

(4) Hoist limit switch.

(a) At the beginning of each operator's shift, the upper limit switch of each hoist shall be tried out under no load. Extreme care shall be exercised; the block shall be "inched" into the limit or run in at slow speed. If the switch does not operate properly, the appointed person shall be immediately notified.

(b) The hoist limit switch which controls the upper limit of travel of the load block shall never be used as an operating control.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23527, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-23527, filed 5/9/73 and Order 73-4, § 296-24-23527, filed 5/7/73.]

WAC 296-24-23529 Operators. (1) Cranes shall be operated only be regular crane operators, authorized substitutes who have had adequate experience and training under the supervision of a competent operator, or by crane repairmen or inspectors.

(2) No person should be permitted to operate a crane who cannot speak and read the English language, or who is under eighteen years of age.

(3) No person shall be permitted to operate a crane whose hearing or eye-sight is impaired, or who may be suffering from heart disease or similar ailments. The following physical qualifications shall be minimum requirements for overhead and gantry crane operators and trainees:

(a) They shall have vision of at least 20/30 in one eye, and 20/50 in the other, with or without corrective lenses.

(b) They shall be able to distinguish colors, regardless of position of colors, if color differential is required for operation.

(c) Their hearing, with or without hearing aid, must be adequate for a specific operation.

(d) They shall have sufficient strength, endurance, agility, coordination, and speed of reaction to meet the demands of equipment operation.

(e) They shall have normal depth perception, field of vision, reaction time, manual dexterity, coordination and no tendencies to dizziness or similar undesirable characteristics.

(f) Evidence of physical defects, or emotional instability which could render the operator or trainee a hazard to their self or others, or could interfere with their safe performance may be sufficient cause for disqualification. In such cases, specialized clinical or medical judgments or tests shall be required (which include annual medical certification for recovered heart attack patients).

(g) Evidence that an operator or trainee is subject to seizures or loss of physical control shall be sufficient reason for disqualification. Specialized medical tests shall be required to substantiate these conditions.

(4) Persons who have recovered from a heart attack shall be exempted from the provisions of subsection (3) of this section, as it pertains to their heart condition, provided:

(a) A medical release is obtained from their attending medical doctor.

(b) The release shall state that the operation of a crane will not present a hazard to their self or others.

(c) An examination by a medical doctor, and renewal of the work release certification is required annually.

(5) The operator shall be fully familiar with all crane rules and with the crane mechanism and its proper care. Needed adjustments or repairs shall be reported at once to the proper authority.

(6) The operator shall not eat, smoke or read while actually engaged in the operation of the crane, or operate the crane when physically unfit.

(7) The operator or someone especially designated shall properly lubricate all working parts of the crane.

(8) Cranes shall be kept clean.

(9) Whenever the operator finds the main or emergency switch open, it shall not be closed, even when starting on regular duty, until it is determined that no one is on or about the crane. The crane shall not be oiled or repaired unless the main switch is open.

(10) If the power goes off, the operator shall immediately throw all controllers to "off" position until the power is again available.

(11) Before closing the main switch the operator shall make sure that all controllers are in "off" position until the power is again available.

(12) The operator shall recognize signals only from the employee who is supervising the lift. Operating signals shall follow an established standard. Whistle signals may be used where one crane only is in operation.

(13) Bumping into runway stops or other cranes shall be avoided. When the operator is ordered to engage with or push other cranes, it shall be done with special care for the safety of persons on or below cranes.

(14) When lowering a load, the operator shall proceed carefully and make sure the load is under safe control.

(15) When leaving the cage the operator shall throw all controllers to "off" position and open the main switch.

(16) If the crane is located out-of-doors the operator shall lock the crane in a secure position to prevent it from being blown along or off the track by a severe wind.

(17) Operators shall not permit anyone to ride on the load or hooks, unless using a lifeline or safety device approved by the department.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-23529, filed 7/20/94, effective 9/20/94. 89-11-035 (Order 89-03), § 296-24-23529, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-23529, filed 5/9/73 and Order 73-4, § 296-24-23529, filed 5/7/73.]

WAC 296-24-23531 Other requirements—General. (1) Ladders.

(a) The employer shall insure that hands are free from encumbrances while personnel are using ladders.

(b) Articles which are too large to be carried in pockets or belts shall be lifted and lowered by hand line.

(2) Cabs.

(a) Necessary clothing and personal belongings shall be stored in such a manner as not to interfere with access or operation.

(b) Tools, oil cans, waste, extra fuses, and other necessary articles shall be stored in the tool box, and shall not be permitted to lie loose in or about the cab.

(3) Fire extinguishers. The employer shall insure that operators are familiar with the operation and care of fire extinguishers provided.

[Order 73-5, § 296-24-23531, filed 5/9/73 and Order 73-4, § 296-24-23531, filed 5/7/73.]

WAC 296-24-23533 Crane and derrick suspended personnel (work) platforms. (1) Scope and application. This standard applies to the design, construction, testing, use and maintenance of personnel platforms, and the hoisting of personnel platforms on the load lines of cranes or derricks.

(2) Definitions. For the purposes of this section, the following definitions apply:

(a) "Failure" means load refusal, breakage, or separation of components.

(b) "Hoist" (or hoisting) means all crane or derrick functions such as lowering, lifting, swinging, booming in and out or up and down, or suspending a personnel platform.

(c) "Load refusal" means the point where the ultimate strength is exceeded.

(d) "Maximum intended load" means the total load of all employees tools, materials, and other loads reasonably anticipated to be applied to a personnel platform or personnel platform component at any one time.

(e) "Runway" means a firm, level surface designed, prepared, and designated as a path of travel for the weight and configuration of the crane being used to lift and travel with the crane suspended platform. An existing surface may be used as long as it meets these criteria.

(3) General requirements. The use of a crane or derrick to hoist employees on a personnel platform is prohibited, except when the erection, use, and dismantling of conventional means of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be more hazardous, or is not possible because of structural design or worksite conditions.

(4) Operational criteria.

(a) Hoisting of the personnel platform shall be performed in a slow, controlled, cautious manner with no sudden movements of the crane or derrick, or the platform.

(b) Load lines shall be capable of supporting, without failure, at least seven times the maximum intended load, except that where rotation resistant rope is used, the lines shall be capable of supporting without failure, at least ten times the maximum intended load. The required design factor is achieved by taking the current safety factor of 3.5 and applying the fifty percent derating of the crane capacity.

(c) Load and boom hoist drum brakes, swing brakes, and locking devices such as pawls or dogs shall be engaged when the occupied personnel platform is in a stationary working position.

(d) Cranes and derricks with variable angle booms shall be equipped with a boom angle indicator, readily visible to the operator.

(e) Cranes with telescoping booms shall be equipped with a device to indicate clearly to the operator, at all times, the boom's extended length, or an accurate determination of the load radius to be used during the lift shall be made prior to hoisting personnel.

(f) A positive acting device shall be used which prevents contact between the load block or overhaul ball and the boom tip (anti-two-blocking device), or a system shall be used which deactivates the hoisting action before damage occurs in the event of a two-blocking situation (two block damage prevention feature).

(g) The load line hoist drum shall have a system or device on the power train, other than the load hoist brake, which regulates the lowering rate of speed of the hoist mechanism (controlled load lowering). Free fall is prohibited.

(h) The crane shall be uniformly level within one percent of level grade and located on firm footing. Cranes equipped with outriggers shall have them all fully deployed following manufacturer's specifications, insofar as applicable, when hoisting employees.

(i) The total weight of the loaded personnel platform and related rigging shall not exceed fifty percent of the rated capacity for the radius and configuration of the crane or derrick.

(j) The use of machines having live booms (booms in which lowering is controlled by a brake without aid from other devices which slow the lowering speeds) is prohibited.

(k) Multiple-part line block: When a multiple-part line block is in use, a substantial strap shall be used between the crane hook and common ring, shackle, or other equivalent device, to eliminate employee exposure to the lines running through the block, and to the block itself.

(5) Rigging.

(a) Lifting bridles on box-type platforms shall consist of four legs of equal length, with one end securely shackled to each corner of the platform and the other end securely attached to a common ring, shackle, or other equivalent device to accommodate the crane hook, or a strap to the crane hook.

(b) Shackle bolts used for rigging of personnel platforms shall be secured against displacement.

(c) A substantial safety line shall pass through the eye of each leg of the bridle adjacent to the common ring, shackle, or equivalent device and be securely fastened with a minimum amount of slack to the lift line above the headache ball or to the crane hook itself.

(d) All eyes in wire rope sling shall be fabricated with thimbles.

(e) Wire rope, shackles, rings, master links, and other rigging hardware must be capable of supporting, without failure, at least five times the maximum intended load applied or transmitted to that component. Where rotation resistant wire rope is used for slings, they shall be capable of supporting without failure at least ten times the maximum intended load.

(f) Hooks on headache ball assemblies, lower load blocks, or other attachment assemblies shall be of a type that can be closed and locked, eliminating the hook throat opening. Alternatively, an alloy anchor type shackle with a bolt, nut, and retaining pin shall be used.

(g) Bridles and associated rigging for attaching the personnel platform to the hoist line shall be used only for the platform and the necessary employees, their tools and the materials necessary to do their work, and shall not be used for any other purpose when not hoisting personnel.

(6) Personnel platforms - design criteria.

(a) The personnel platform and suspension system shall be designed by a qualified engineer or a qualified person competent in structural design.

(b) The suspension system shall be designed to minimize tipping of the platform due to movement of employees occupying the platform.

(c) The personnel platform itself, except the guardrail system and body belt/harness anchorages, shall be capable of supporting, without failure, its own weight and at least five times the maximum intended load based on a minimum allowance of five hundred pounds for the first person with light tools, and an additional two hundred fifty pounds for each additional person.

(d) Criteria for guardrail systems and body belt/harness anchorages are contained in WAC 296-24-75007 and 296-24-82503(31) respectively.

(e) The personnel platform shall be conspicuously posted with a plate or other permanent marking which indicates the weight of the platform and its rated load capacity or maximum intended load.

(7) Platform specifications.

(a) Each personnel platform shall be equipped with a guardrail system which meets the requirements of WAC 296-24-75007, and shall be enclosed at least from the toeboard to mid-rail with either solid construction or expanded metal having openings no greater than one-half inch (1.27cm).

(b) A grab rail shall be installed inside the entire perimeter of the personnel platform.

(c) Access gates, if installed, shall not swing outward during hoisting.

(d) Access gates, including sliding or folding gates, shall be equipped with a restraining device to prevent accidental opening.

(e) Headroom shall be provided which allows employees to stand upright in the platform.

(f) In addition to the use of hard hats, employees shall be protected by overhead protection on the personnel platform when employees are exposed to falling objects.

(g) All rough edges exposed to contact by employees shall be surfaced or smoothed in order to prevent injury to employees from punctures or lacerations.

(h) All welding of the personnel platform and its components shall be performed by a qualified welder familiar with the weld grades, types, and material specified in the platform design.

(i) Occupants of all personnel platforms shall wear a safety belt or harness and lanyard which meets the requirements of ANSI A10.14-1975.

(j) Box-type platform: The workers lanyard shall be secured to the work platform or guardrail of the work platform.

(k) Rescue platform:

(i) If the platform is used as a rescue vehicle, the injured worker shall be strapped into the stretcher or basket.

(ii) The basket shall then be secured by lanyard to an anchorage within the platform.

(l) Boatswains chair: The workers lanyard shall be secured to the lift line above the headache ball or to the crane hook itself.

(m) Barrel-type platform:

(i) The workers lanyard shall be secured to the lift line above the headache ball or to the crane hook itself.

(ii) A solid bar or rod shall be substantially attached in a rigid position to the bottom or side of the platform.

(iii) The side bar or rod shall extend a minimum of eight feet above the floor of the work platform.

(iv) The bottom of the barrel-type platform shall be of a convex shape to cause the platform to lay on its side when lowered to the ground or floor.

(v) Workers shall enter and exit from barrel-type platforms only when they are in an upright position, stable, and securely attached to the load line.

(vi) The employer shall use methods or devices which allow employees to safely enter or exit barrel-type platforms.

(8) Personnel platform loading.

(a) The personnel platform shall not be loaded in excess of its rated load capacity.

(b) The number of employees occupying the personnel platform shall not exceed the number required for the work being performed.

(c) Personnel platforms shall be used only for employees, their tools, and the materials necessary to do their work, and shall not be used to hoist only materials or tools when not hoisting personnel.

(d) Materials and tools for use during a personnel lift shall be secured to prevent displacement.

(e) Materials and tools for use during a personnel lift shall be evenly distributed within the confines of the platform while the platform is suspended.

(9) Trial lift, inspection, and prooftesting.

(a) A trial lift with the unoccupied personnel platform loaded at least to the anticipated liftweight shall be made from ground level, or any other location where employees will enter the platform, to each location at which the personnel platform is to be hoisted and positioned. This trial lift shall be performed immediately prior to placing personnel on the platform. The operator shall determine that all systems, controls, and safety devices are activated and functioning properly; that no interferences exist; and that all configurations necessary to reach those work locations will allow the operator to remain under the fifty percent limit of the hoist's rated capacity. Materials and tools to be used during the actual lift can be loaded in the platform, as provided in subsection (8)(d) and (e) of this section for the trial lift. A single trial lift may be performed at one time for all locations that are to be reached from a single set-up position.

(b) The trial lift shall be repeated prior to hoisting employees whenever the crane or derrick is moved and set up in a new location or returned to a previously used location. Additionally, the trial lift shall be repeated when the lift route is changed unless the operator determines that the route change is not significant (i.e., the route change would not affect the safety of hoisted employees).

(c) After the trial lift, and just prior to hoisting personnel, the platform shall be hoisted a few inches and inspected to ensure that it is secure and properly balanced. Employees shall not be hoisted unless the following conditions are determined to exist:

(i) Hoist ropes shall be free of kinks;

(ii) Multiple part lines shall not be twisted around each other;

(iii) The primary attachment shall be centered over the platform; and

(iv) The hoisting system shall be inspected if the load rope is slack to ensure all ropes are properly stated on drums and in sheaves.

(d) A visual inspection of the crane or derrick, rigging, personnel platform, and the crane or derrick base support or ground shall be conducted by a competent person immediately after the trial lift to determine whether the testing has exposed any defect or produced any adverse effect upon any component or structure.

(e) Any defects found during inspections which create a safety hazard shall be corrected before hoisting personnel.

(f) At each job site, prior to hoisting employees on the personnel platform, and after any repair or modification, the platform and rigging shall be prooftested to one hundred twenty-five percent of the platform's rated capacity by holding it in a suspended position for five minutes with the test load evenly distributed on the platform (this may be done concurrently with the trial lift). After prooftesting, a competent person shall inspect the platform and rigging. Any deficiencies found shall be corrected and another prooftest shall be conducted. Personnel hoisting shall not be conducted until the prooftesting requirements are satisfied.

(g) The employer shall retain at the jobsite and produce when requested, documentation such as lift capacity information, verifying that the requirements of this standard have been met.

(10) Work practices.

(a) Employees shall keep all parts of the body inside the platform during raising, lowering, and positioning. This provision does not apply to an occupant of the platform performing the duties of a signal person.

(b) Before employees exit or enter a hoisted personnel platform that is not landed, the platform shall be secured to the structure where the work is to be performed, unless securing to the structure creates an unsafe situation.

(c) Tag lines shall be used unless their use creates an unsafe condition.

(d) The crane or derrick operator shall remain at the controls at all times when the crane engine is running and the platform is occupied.

(e) Hoisting of employees shall be promptly discontinued upon indication of any dangerous weather conditions or other impending danger.

(f) Employees being hoisted shall remain in continuous sight of and in direct communication with the operator or signal person. In those situations where direct visual contact with the operator is not possible, and the use of a signal person would create a greater hazard for that person, direct communication alone such as by radio may be used.

(g) Hand signals to the operator shall be in accordance with those prescribed by the applicable ANSI standard for the type of crane or lift in use unless voice communication equipment is utilized. Signals shall be discernable or audible at all times.

(h) Except over water, employees occupying the personnel platform shall use a body belt/harness system with lanyard appropriately attached to the lower load block or overhaul ball, or to a structural member within the personnel platform capable of supporting a fall impact for employees using the anchorage.

(i) No lifts shall be made on another of the crane's or derrick's load lines while personnel are suspended on a platform.

(11) Traveling.

(a) Hoisting of employees while the crane is traveling is prohibited except for portal, tower and locomotive cranes, or where the employer demonstrates that there is no less hazardous way to perform the work.

(b) Under any circumstances where a crane would travel while hoisting personnel, the employer shall implement the following procedures to safeguard employees:

(i) Crane travel shall be restricted to a fixed track or runway;

(ii) Travel shall be limited to the load radius of the boom used during the lift; and

(iii) The boom must be parallel to the direction of travel.

(c) A complete trial run shall be performed to test the route of travel before employees are allowed to occupy the platform. This trial run can be performed at the same time as the trial lift required by subsection (9)(a) of this section which tests the route of the lift.

(d) If travel is done with a rubber tired-carrier, the condition and air pressure of the tires shall be checked. The chart capacity for lifts on rubber shall be used for application of the fifty percent reduction of rated capacity. Notwithstanding subsection (4)(i) of this section, outriggers may be partially retracted as necessary for travel.

(12) Prelift meeting.

(a) A meeting attended by the crane or derrick operator, signal person(s) (if necessary for the lift), employee(s) to be lifted, and the person responsible for the task to be performed shall be held to review the appropriate requirements of this section and the procedures to be followed.

(b) This meeting shall be held prior to the trial lift at each new location, and shall be repeated for any employees newly assigned to the operation.

[Statutory Authority: Chapter 49.17 RCW. 96-09-030, § 296-24-23533, filed 4/10/96, effective 6/1/96; 91-03-044 (Order 90-18), § 296-24-23533, filed 1/10/91, effective 2/12/91.]

WAC 296-24-237 Construction, operation and maintenance—Chain and electric hoists. (1) Chain and electric hoists shall be of what is known as "all steel construction." No cast iron shall be used in parts subject to tension except drums, bearings or brake shoes.

(2) The chains shall be made of the best quality steel or iron with welded links.

(3) Chain and electric hoists shall have a factor of safety of at least five.

(4) Chain and electric hoists shall be equipped with an approved device which will automatically lock the load when hoisting is stopped.

(5) Electric hoists shall be provided with an approved limit stop to prevent the hoist block from traveling too far in case the operating handle is not released in time.

[Order 73-5, § 296-24-237, filed 5/9/73 and Order 73-4, § 296-24-237, filed 5/7/73.]

WAC 296-24-238 Air hoists. (1) To prevent piston rod lock nuts from becoming loose and allowing rod to drop when supporting a load, lock nut shall be secured to piston rod by a castellated nut and cotter-pin.

(2) A clevis or other means shall be used to prevent hoists cylinder becoming detached from hanger.

[Order 73-5, § 296-24-238, filed 5/9/73 and Order 73-4, § 296-24-238, filed 5/7/73.]

WAC 296-24-240 Crawler locomotive and truck cranes.

[Order 73-5, § 296-24-240, filed 5/9/73 and Order 73-4, § 296-24-240, filed 5/7/73.]

WAC 296-24-24001 Definitions. (1) A "crawler crane" consists of a rotating superstructure with power plant, operating machinery, and boom, mounted on a base, equipped with crawler treads for travel. Its function is to hoist and swing loads at various radii.

(2) A "locomotive crane" consists of a rotating superstructure with power plant, operating machinery and boom, mounted on a base or car equipped for travel on railroad track. It may be self-propelled or propelled by an outside source. Its function is to hoist and swing loads at various radii.

(3) A "truck crane" consists of a rotating superstructure with power plant, operating machinery and boom, mounted on an automotive truck equipped with a power plant for travel. Its function is to hoist and swing loads at various radii.

(4) A "wheel mounted crane" (wagon crane) consists of a rotating superstructure with power plant, operating machinery and boom, mounted on a base or platform equipped with axles and rubber-tired wheels for travel. The base is usually propelled by the engine in the superstructure, but it may be equipped with a separate engine controlled from the superstructure. Its function is to hoist and swing loads at various radii.

(5) An "accessory" is a secondary part or assembly of parts which contributes to the overall function and usefulness of a machine.

(6) "Appointed" means assigned specific responsibilities by the employer or the employer's representative.

(7) "ANSI" means the American National Standards Institute.

(8) An "angle indicator" (boom) is an accessory which measures the angle of the boom to the horizontal.

(9) The "axis of rotation" is the vertical axis around which the crane superstructure rotates.

(10) "Axle" means the shaft or spindle with which or about which a wheel rotates. On truck- and wheel-mounted cranes it refers to an automotive type of axle assembly including housings, gearing, differential, bearings, and mounting appurtenances.

(11) "Axle" (bogie) means two or more automotive-type axles mounted in tandem in a frame so as to divide the load between the axles and permit vertical oscillation of the wheels.

(12) The "base" (mounting) is the traveling base or carrier on which the rotating superstructure is mounted such as a car, truck, crawlers, or wheel platform.

(13) The "boom" (crane) is a member hinged to the front of the rotating superstructure with the outer end supported by ropes leading to a gantry or "A" frame and used for supporting the hoisting tackle.

(14) The "boom angle" is the angle between the longitudinal centerline of the boom and the horizontal. The boom longitudinal centerline is a straight line between the boom foot pin (heel pin) centerline and boom point sheave pin centerline.

(15) The "boom hoist" is a hoist drum and rope reeving system used to raise and lower the boom. The rope system may be all live reeving or a combination of live reeving and pendants.

(16) The "boom stop" is a device used to limit the angle of the boom at the highest position.

(17) A "brake" is a device used for retarding or stopping motion by friction or power means.

(18) A "cab" is housing which covers the rotating superstructure machinery and/or operator's station. On truck crane trucks a separate cab covers the driver's station.

(19) The "clutch" is a friction, electromagnetic, hydraulic, pneumatic, or positive mechanical device for engagement or disengagement of power.

(20) The "counterweight" is a weight used to supplement the weight of the machine in providing stability for lifting working loads.

(21) "Designated" means selected or assigned by the employer or the employer's representative as being qualified to perform specific duties.

(22) The "drum" is the cylindrical members around which ropes are wound for raising and lowering the load or boom.

(23) "Dynamic" (loading) means loads introduced into the machine or its components by forces in motion.

(24) The "gantry" (A-frame) is a structural frame, extending above the superstructure, to which the boom supports ropes are reeved.

(25) A "jib" is an extension attached to the boom point to provide added boom length for lifting specified loads. The jib may be in line with the boom or offset to various angles.

(26) "Load" (working) means the external load, in pounds, applied to the crane, including the weight of load-attaching equipment such as load blocks, shackles, and slings.

(27) "Load block" (upper) means the assembly of hook or shackle, swivel, sheaves, pins, and frame suspended from the boom point.

(28) "Load block" (lower) means the assembly of hook or shackle, swivel, sheaves, pins, and frame suspended by the hoisting ropes.

(29) A "load hoist" is a hoist drum and rope reeving system used for hoisting and lowering loads.

(30) "Load ratings" are crane ratings in pounds established by the manufacturer in accordance with WAC 296-24-24005.

(31) "Outriggers" are extendable or fixed metal arms, attached to the mounting base, which rest on supports at the outer ends.

(32) "Rail clamp" means a tong-like metal device, mounted on a locomotive crane car, which can be connected to the track.

(33) "Reeving" means a rope system in which the rope travels around drums and sheaves.

(34) "Rope" refers to a wire rope unless otherwise specified.

(35) "Side loading" means a load applied at an angle to the vertical plane of the boom.

(36) A "standby crane" is a crane which is not in regular service but which is used occasionally or intermittently as required.

(37) A "standing (guy) rope" is a supporting rope which maintains a constant distance between the points of attachment to the two components connected by the rope.

(38) "Structural competence" means the ability of the machine and its components to withstand the stresses imposed by applied loads.

(39) "Superstructure" means the rotating upper frame structure of the machine and the operating machinery mounted thereon.

(40) "Swing" means the rotation of the superstructure for movement of loads in a horizontal direction about the axis of rotation.

(41) "Swing mechanism" means the machinery involved in providing rotation of the superstructure.

(42) "Tackle" is an assembly of ropes and sheaves arranged for hoisting and pulling.

(43) "Transit" means the moving or transporting of a crane from one jobsite to another.

(44) "Travel" means the functions of the machine moving from one location to another, on a jobsite.

(45) The "travel mechanism" is the machinery involved in providing travel.

(46) "Wheelbase" means the distance between centers of front and rear axles. For a multiple axle assembly the axle center for wheelbase measurement is taken as the midpoint of the assembly.

(47) The "whipline" (auxiliary hoist) is a separate hoist rope system of lighter load capacity and higher speed than provided by the main hoist.

(48) A "winch head" is a power driven spool for handling of loads by means of friction between fiber or wire rope and spool.

[Order 73-5, § 296-24-24001, filed 5/9/73 and Order 73-4, § 296-24-24001, filed 5/7/73.]

WAC 296-24-24003 General requirements. (1) Application. This section applies to crawler cranes, locomotive cranes, wheel mounted cranes of both truck and self-propelled wheel type, and any variations thereof which retain the same fundamental characteristics. This section includes only cranes of the above types, which are basically powered by internal combustion engines or electric motors and which utilize drums and ropes. Cranes designed for railway and automobile wreck clearances are excepted. The requirements of these standards are applicable only to machines when used as lifting cranes.

(2) New and existing equipment. All new crawler, locomotive, and truck cranes constructed and utilized on or after the effective date of these standards, shall meet the design specifications of the American National Standard Safety Code for Crawler, Locomotive, and Truck Cranes, ANSI B 30.5-1968. Crawler, locomotive, and truck cranes constructed prior to the effective date of these standards should be modified to conform to those design specifications by December 31, 1973, unless it can be shown that the crane cannot feasibly or economically be altered and that the crane substantially complies with the requirements of this section. Replacement parts shall be of equal or better quality than the original equipment and suitable for the purpose. Repairs or modifications shall be such as to render the equipment equal to or better than the original construction or design.

(3) Designated personnel. Only designated personnel shall be permitted to operate a crane covered by this section.

[Order 74-27, § 296-24-24003, filed 5/7/74; Order 73-5, § 296-24-24003, filed 5/9/73 and Order 73-4, § 296-24-24003, filed 5/7/73.]

WAC 296-24-24005 Load ratings. (1) Load ratings—Where stability governs lifting performance.

(a) The margin of stability for determination of load ratings, with booms of stipulated lengths at stipulated working radii for the various types of crane mountings is established by taking a percentage of the loads which will produce a condition of tipping or balance with the boom in the least stable direction, relative to the mounting. The load ratings shall not exceed the following percentages for cranes, with the indicated types of mounting under conditions stipulated in (1)(b) and (c) of this section.

Type of crane mounting:	Maximum load ratings (percent of tipping loads)
Locomotive, without outriggers;	
Booms 60 feet or less	85
Booms over 60 feet	85[1]
Locomotive, using outriggers fully extended	80
Crawler, without outriggers	75
Crawler, using outriggers fully extended	85
Truck and wheel mounted without outriggers or using outriggers fully extended	85

[1] Unless this results in less than 30,000 pound-feet net stabilizing moment about the rail, which shall be minimum with such booms.

(b) The following stipulation shall govern the application of the values in (1)(a) of this section for locomotive cranes:

(i) Tipping with or without the use of outriggers occurs when half of the wheels farthest from the load leave the rail.

(ii) The crane shall be standing on track which is level within 1 percent grade.

(iii) Radius of the load is the horizontal distance from a projection of the axis of rotation to the rail support surface, before loading, to the center of vertical hoist line or tackle with load applied.

(iv) Tipping loads from which ratings are determined shall be applied under static conditions only, i.e., without dynamic effect of hoisting, lowering, or swinging.

(v) The weight of all auxiliary handling devices such as hoist blocks, hooks, and slings shall be considered a part of the load rating.

(c) Stipulations governing the application of the values in (1)(a) of this section for crawler, truck, and wheel-mounted cranes shall be in accordance with Crane Load-Stability Test Code. Society of Automotive Engineers (SAE) J765.

Note: The effectiveness of these preceding stability factors will be influenced by such additional factors as freely suspended loads, track, wind, or ground conditions, condition and

inflation of rubber tires, boom lengths, proper operating speeds for existing conditions, and, in general, careful and competent operation. All of these shall be taken into account by the user.

(2) Rated capacity chart. A chart indicating the manufacturer's rated capacity at all operating radii for all permissible boom lengths and jib lengths with alternate ratings for optional equipment affecting such ratings shall be posted in all mobile type cranes and shall be readily visible to the operator in the normal operating position.

(3) Inspection classification. Initial inspection. Prior to initial use all new and altered cranes shall be inspected to insure compliance with provisions of these standards.

(4) All hooks shall be of the safety latch-type or the hook shall be moused.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-24005, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-24005, filed 7/31/79; Order 73-5, § 296-24-24005, filed 5/9/73 and Order 73-4, § 296-24-24005, filed 5/7/73.]

WAC 296-24-24007 Inspection classification. (1) Regular inspection. Inspection procedure for cranes in regular service is divided into two general classifications based upon the intervals at which inspection should be performed. The intervals in turn are dependent upon the nature of the critical components of the crane and the degree of their exposure to wear, deterioration, or malfunction. The two general classifications are herein designated as "frequent" and "periodic" with respective intervals between inspections as defined below:

(a) Frequent inspection: Daily to monthly intervals.

(b) Periodic inspection: One- to 12-month intervals, or as specifically recommended by the manufacturer.

(2) Frequent inspection. Items such as the following shall be inspected for defects at intervals as defined in (2)(a) of this section or as specifically indicated including observation during operation for any defects which might appear between regular inspection. Any deficiencies such as listed shall be carefully examined and determination made as to whether they constitute a safety hazard:

(a) All control mechanisms for maladjustment interfering with proper operation: Daily.

(b) All control mechanisms for excessive wear of components and contamination by lubricants or other foreign matter.

(c) All safety devices for malfunction.

(d) Deterioration or leakage in air or hydraulic systems: Daily.

(e) Crane hooks with deformations or cracks. For hooks with cracks or having more than 15 percent in excess of normal throat opening or more than 10° twist from the plane of the unbent hook.

(f) Rope reeving for noncompliance with manufacturer's recommendations.

(g) Electrical apparatus for malfunctioning, signs of excessive deterioration, dirt, and moisture accumulation.

(3) Periodic inspection. Complete inspections of the crane shall be performed at intervals as generally defined in (2)(b) of this section depending upon its activity, severity of service, and environment, or as specifically indicated below. These inspections shall include the requirements of (3) of this section and in addition, items such as the following. Any deficiencies such as listed shall be carefully examined and determination made as to whether they constitute a safety hazard:

(a) Deformed, cracked, or corroded members, in the crane structure and boom.

(b) Loose bolts or rivets.

(c) Cracked or worn sheaves and drums.

(d) Worn, cracked, or distorted parts such as pins, bearings, shafts, gears, rollers and locking devices.

(e) Excessive wear on brake and clutch system parts, linings, pawls, and ratchets.

(f) Load, boom angle, and other indicators over their full range, for any significant inaccuracies.

(g) Gasoline, diesel, electric, or other power plants for improper performance or noncompliance with safety requirements.

(h) Excessive wear of chain-drive sprockets and excessive chain stretch.

(i) Travel steering, braking, and locking devices, for malfunction.

(j) Excessively worn or damaged tires.

(4) Cranes not in regular use.

(a) A crane which has been idle for a period of one month or more, but less than 6 months, shall be given an inspection conforming with requirements of (3) of this section and WAC 296-24-24013 (2)(b) before placing in service.

(b) A crane which has been idle for a period of six months shall be given a complete inspection conforming with requirements of (3) and (4) of this section and WAC 296-24-24013 (2)(b) before placing in service.

(c) Standby cranes shall be inspected at least semi-annually in accordance with requirements of (3) of this section and WAC 296-24-24013 (2)(b). Such cranes which are exposed to adverse environment should be inspected more frequently.

(5) Inspection records. Written, dated, and signed inspection reports and records shall be made monthly on critical items in use such as brakes, crane hooks, and ropes. Records shall be kept readily available.

[Order 73-5, § 296-24-24007, filed 5/9/73 and Order 73-4, § 296-24-24007, filed 5/7/73.]

WAC 296-24-24009 Testing. (1) Operational tests.

(a) In addition to prototype tests and quality-control measures, the user of each new production crane shall require that it be tested and related data supplied by the manufacturer to the extent necessary to assure compliance with the operational requirements of this subsection including functions such as the following:

(i) Load hoisting and lowering mechanisms

(ii) Boom hoisting and lower mechanisms

(iii) Swinging mechanism

(iv) Travel mechanism

(v) Safety devices

(b) Where the complete production crane is not supplied by one manufacturer such tests shall be conducted at final assembly.

(c) Certified production-crane test results shall be made available.

(2) Rated load test.

(a) Written reports shall be available showing test procedures and confirming the adequacy of repairs or alterations.

(b) Test loads shall not exceed 110 percent of the rated load at any selected working radius.

(c) Where rerating is necessary:

(i) Crawler, truck, and wheel-mounted cranes shall be tested in accordance with SAE Recommended Practice, Crane Load Stability Test Code J765 (April 1961).

(ii) Locomotive cranes shall be tested in accordance with WAC 296-24-24005 (1)(a) and (b).

(iii) Rerating test report shall be readily available.

(d) No cranes shall be rerated in excess of the original load ratings unless such rating changes are approved by the crane manufacturer or final assembler.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-24009, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-24009, filed 5/9/73 and Order 73-4, § 296-24-24009, filed 5/7/73.]

WAC 296-24-24011 Maintenance procedure. (1) Any unsafe conditions disclosed by the inspection requirements of this section shall be corrected before operation of the crane is resumed. Adjustments and repairs shall be done only by designated personnel.

(2) After adjustments and repairs have been made the crane shall not be operated until all guards have been reinstalled, safety devices reactivated, and maintenance equipment removed.

[Order 73-5, § 296-24-24011, filed 5/9/73 and Order 73-4, § 296-24-24011, filed 5/7/73.]

WAC 296-24-24013 Rope inspection. (1) Running ropes. A thorough inspection of all ropes in use shall be made at least once a month and a full written, dated, and signed report of rope condition kept on file where readily available. All inspections shall be performed by an appointed or authorized person. Any deterioration, resulting in appreciable loss of original strength, such as described below, shall be carefully noted and determination made as to whether further use of the rope would constitute a safety hazard:

(a) Reduction of rope diameter below nominal diameter due to loss of core support, internal, or external corrosion or wear of outside wires.

(b) A number of broken outside wires and the degree of distribution of concentration of such broken wires.

(c) Worn outside wires.

(d) Corroded or broken wires at end connections.

(e) Corroded, cracked, bent, worn, or improperly applied end connections.

(f) Severe kinking, crushing, cutting, or unstranding.

(2) Other ropes.

(a) Heavy wear and/or broken wires may occur in sections in contact with equalizer sheaves or other sheaves where rope travel is limited, or with saddles. Particular care shall be taken to inspect ropes at these locations.

(b) All rope which has been idle for a period of a month or more due to shut down or storage of a crane on which it is installed shall be given a thorough inspection before it is placed in service. This inspection shall be for all types of deterioration and shall be performed by an appointed or authorized person whose approval shall be required for further use of the rope. A written and dated report of the rope condition shall be available.

(c) Particular care shall be taken in the inspection of nonrotating rope.

[Order 73-5, § 296-24-24013, filed 5/9/73 and Order 73-4, § 296-24-24013, filed 5/7/73.]

WAC 296-24-24015 Handling the load. (1) Size of load.

(a) No crane shall be loaded beyond the rated load, except for test purposes as provided in WAC 296-24-24009.

(b) When loads which are limited by structural competence rather than by stability are to be handled, it shall be ascertained that the weight of the load has been determined within plus or minus 10 percent before it is lifted.

(2) Attaching the load.

(a) The hoist rope shall not be wrapped around the load.

(b) The load shall be attached to the hook by means of slings or other approved devices.

(3) Moving the load.

(a) The employer shall assure that:

(i) The crane is level and where necessary blocked properly.

(ii) The load is well secured and properly balanced in the sling or lifting device before it is lifted more than a few inches.

(b) Before starting to hoist, the following conditions shall be noted:

(i) Hoist rope shall not be kinked.

(ii) Multiple part lines shall not be twisted around each other.

(iii) The hook shall be brought over the load in such a manner as to prevent swinging.

(iv) If there is a slack rope condition, it should be determined that the rope is properly seated on the drum and in the sheaves.

(c) During hoisting care shall be taken that:

(i) There is no sudden acceleration or deceleration of the moving load.

(ii) The load does not contact any obstructions.

(d) Side loading of booms shall be limited to freely suspended loads. Cranes shall not be used for dragging loads sideways.

(e) No hoisting, lowering, swinging, or traveling shall be done while anyone is on the load or hook.

(f) The operator should avoid carrying loads over people.

(g) On truck mounted cranes, no loads shall be lifted over the front area except as approved by the crane manufacturer.

(h) The operator shall test the brakes each time a load approaching the rated load is handled by raising it a few inches and applying the brakes.

(i) Outriggers shall be used when the load to be handled at that particular radius exceeds the rated load without outriggers as given by the manufacturer for that crane. Where floats are used they shall be securely attached to the outriggers. Wood blocks used to support outriggers shall:

(i) Be strong enough to prevent crushing.

(ii) Be free from defects.

(iii) Be of sufficient width and length to prevent shifting or toppling under load.

(j) Neither the load nor the boom shall be lowered below the point where less than two full wraps of rope remain on their respective drums.

(k) Before lifting loads with locomotive cranes without using outriggers, means shall be applied to prevent the load from being carried by the truck springs.

(l) When two or more cranes are used to lift one load, one designated person shall be responsible for the operation. They shall be required to analyze the operation and instruct all personnel involved in the proper positioning, rigging of the load, and the movements to be made.

(m) In transit the following additional precautions shall be exercised.

(i) The boom shall be carried in line with the direction of motion.

(ii) The superstructure shall be secured against rotation, except when negotiating turns when there is an operator in the cab or the boom is supported on a dolly.

(iii) The empty hook shall be lashed or otherwise restrained so that it cannot swing freely.

(n) Before traveling a crane with load, a designated person shall be responsible for determining and controlling safety. Decisions such as position of load, boom location, ground support, travel route, and speed of movement shall be in accord with their determinations.

(o) A crane with or without load shall not be traveled with the boom so high that it may bounce back over the cab.

(p) When rotating the crane, sudden starts and stops shall be avoided. Rotational speed shall be such that the load does not swing out beyond the radii at which it can be controlled. A tag or restraint line shall be used when rotation of the load is hazardous.

(q) When a crane is to be operated at a fixed radius, the boom-hoist pawl or other positive locking device shall be engaged.

(r) Ropes shall not be handled on a winch head without the knowledge of the operator.

(s) While a winch head is being used, the operator shall be within convenient reach of the power unit control lever.

(4) Holding the load.

(a) The operator shall not be permitted to leave the control position while the load is suspended.

(b) No person should be permitted to stand or pass under a load on the hook.

(c) If the load must remain suspended for any considerable length of time, the operator shall hold the drum from rotating in the lowering direction by activating the positive controllable means of the operator's station.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-24015, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-24015, filed 5/9/73 and Order 73-4, § 296-24-24015, filed 5/7/73.]

WAC 296-24-24017 Other requirements. (1) Rail clamps. Rail clamps shall not be used as a means of restraining tipping of a locomotive crane.

(2) Ballast or counterweight. Cranes shall not be operated without the full amount of any ballast or counterweight in place as specified by the maker, but truck cranes that have dropped the ballast or counterweight may be operated temporarily with special care and only for light loads without full ballast or counterweight in place. The ballast or counterweight in place specified by the manufacturer shall not be exceeded.

(3) Cabs.

(a) Necessary clothing and personal belongings shall be stored in such a manner as to not interfere with access or operation.

(b) Tools, oil cans, waste, extra fuses, and other necessary articles shall be stored in the tool box, and shall not be permitted to lie loose in or about the cab.

(4) Refueling.

(a) Refueling with small portable containers shall be done with an approved safety type can equipped with an automatic closing cap and flame arrester. Refer to WAC 296-24-58501(19) for definition of approved.

(b) Machines shall not be refueled with the engine running.

(5) Fire extinguishers.

(a) A carbon dioxide, dry chemical, or equivalent fire extinguisher shall be kept in the cab or vicinity of the crane.

(b) Operating and maintenance personnel shall be made familiar with the use and care of the fire extinguishers provided.

(6) Swinging locomotive cranes. A locomotive crane shall not be swung into a position where railway cars on an adjacent track might strike it, until it has been ascertained that cars are not being moved on the adjacent track and proper flag protection has been established.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-24017, filed 11/14/88; Order 73-5, § 296-24-24017, filed 5/9/73 and Order 73-4, § 296-24-24017, filed 5/7/73.]

WAC 296-24-24019 Operating near overhead electric power lines. (1) For operations near overhead electric lines see chapter 296-24 WAC Part L.

(2) Boom guards. Cage-type boom guards, insulating links, or proximity warning devices may be used on cranes, but the use of such devices shall not operate to alter the requirements of (1) of this section.

(3) Notification. Before the commencement of operations near electrical lines, the owners of the lines or their authorized representative shall be notified and provided with all pertinent information. The cooperation of the owner shall be requested.

(4) Overhead wires. Any overhead wire shall be considered to be an energized line unless and until the person owning such line or the electrical utility authorities indicate that it is not an energized line.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-24019, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-24019, filed 5/9/73 and Order 73-4, § 296-24-24019, filed 5/7/73.]

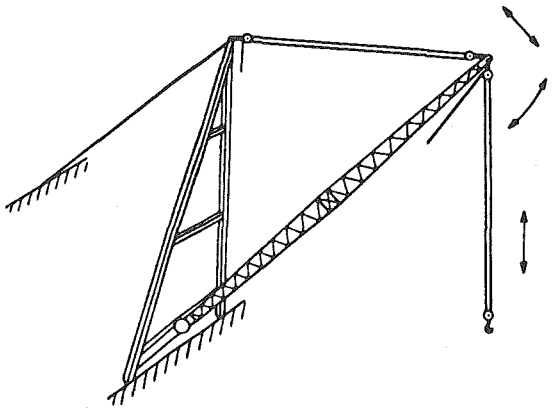
WAC 296-24-245 Derricks.

[Order 73-5, § 296-24-245, filed 5/9/73 and Order 73-4, § 296-24-245, filed 5/7/73.]

WAC 296-24-24501 Definitions. (1) A "derrick" is an apparatus consisting of a mast or equivalent member held at

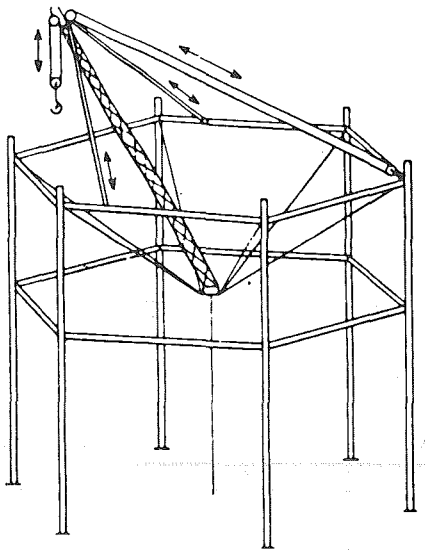
the head by guys or braces, with or without a boom, for use with a hoisting mechanism and operating ropes.

(2) "A-frame derrick" means a derrick in which the boom is hinged from a cross member between the bottom ends of two upright members spread apart at the lower ends and joined at the top; the boom point secured to the junction of the side members, and the side members are braced or guyed from this junction point.



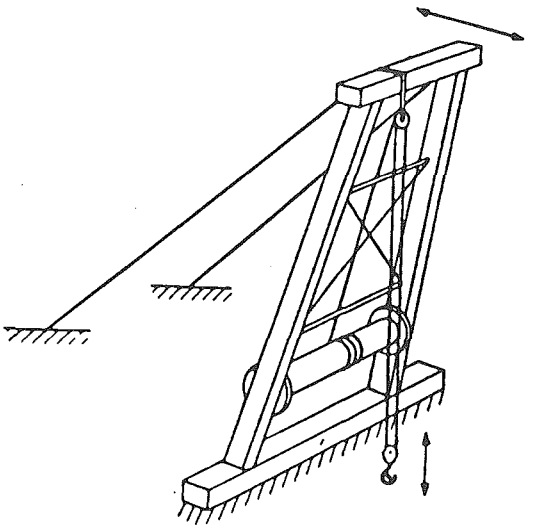
A-FRAME

(3) A "basket derrick" is a derrick without a boom, similar to a gin pole with its base supported by ropes attached to corner posts or other parts of the structure. The base is at a lower elevation than its supports. The location of the base of a basket derrick can be changed by varying the length of the rope supports. The top of the pole is secured with multiple reeved guys to position the top of the pole to the desired location by varying the length of the upper guy lines. The load is raised and lowered by ropes through a sheave or block secured to the top of the pole.



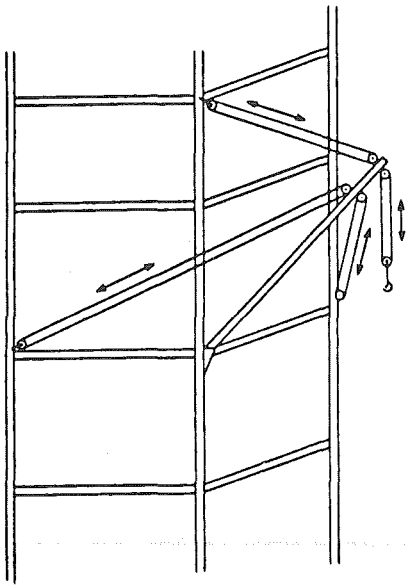
BASKET

(4) "Breast derrick" means a derrick without boom. The mast consists of two side members spread farther apart at the base than at the top and tied together at top and bottom by rigid members. The mast is prevented from tipping forward by guys connected to its top. The load is raised and lowered by ropes through a sheave or block secured to the top crosspiece.



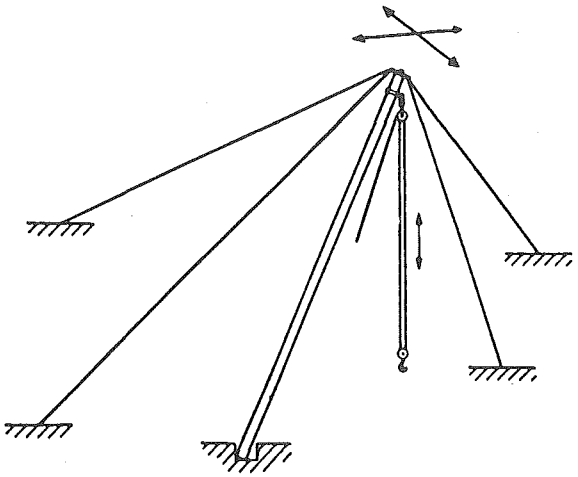
BREAST

(5) "Chicago boom derrick" means a boom which is attached to a structure, and outside upright member of the structure serving as the mast, and the boom being stepped in a fixed socket clamped to the upright. The derrick is complete with load, boom, and boom point swing line falls.



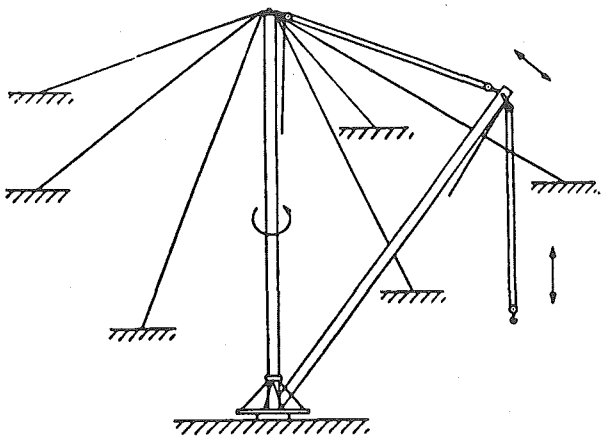
CHICAGO BOOM

(6) A "gin pole derrick" is a derrick without a boom. Its guys are so arranged from its top as to permit leaning the mast in any direction. The load is raised and lowered by ropes reeved through sheaves or blocks at the top of the mast.



GIN POLE

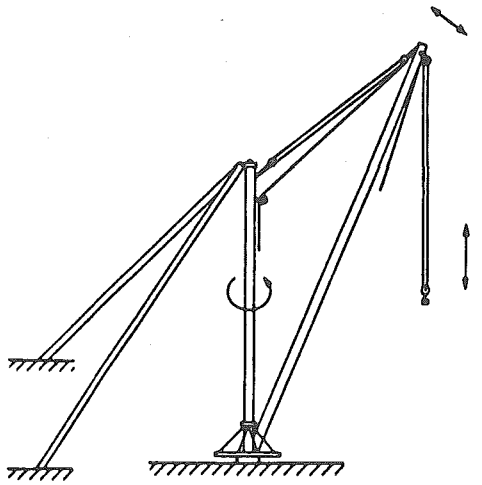
(7) "Guy derrick" means a fixed derrick consisting of a mast capable of being rotated, supported in a vertical position by guys, and a boom whose bottom end is hinged or pivoted to move in a vertical plane with a reeved rope between the head of the mast and the boom point for raising and lowering the boom, and a reeved rope from the boom point for raising and lowering the load.



GUY

(8) "Shearleg derrick" means a derrick without a boom and similar to a breast derrick. The mast, wide at the bottom and narrow at the top, is hinged at the bottom and has its top secured by a multiple reeved guy to permit handling loads at various radii by means of load tackle suspended from the mast top.

(9) A "stiffleg derrick" is a derrick similar to a guy derrick except that the mast is supported or held in place by two or more stiff members, called stifflegs, which are capable of resisting either tensile or compressive forces. Sills are generally provided to connect the lower ends of the stifflegs to the foot of the mast.



STIFF LEG

(10) "Appointed" means assigned specific responsibilities by the employer or the employer's representative.

(11) "ANSI" means the American National Standards Institute.

(12) A boom is a timber or metal section or strut, pivoted or hinged at the heel (lower end) at a location fixed in height on a frame or mast or vertical member, and with its point (upper end) supported by chains, ropes, or rods to the upper end of the frame mast, or vertical member. A rope for raising and lowering the load is reeved through sheaves or a block at the boom point. The length of the boom shall be taken as the straight line distance between the axis of the foot pin and the axis of the boom point sheave pin, or where used, the axis of the upper load block attachment pin.

(13) "Boom harness" means the block and sheave arrangement on the boom point to which the topping lift cable is reeved for lowering and raising the boom.

(14) The "boom point" is the outward end of the top section of the boom.

(15) "Derrick bullwheel" means a horizontal ring or wheel, fastened to the foot of a derrick, for the purpose of turning the derrick by means of ropes leading from this wheel to a powered drum.

(16) "Designated" means selected or assigned by the employer or employer's representative as being qualified to perform specific duties.

(17) "Eye" means a loop formed at the end of a rope by securing the dead end to the live end at the base of the loop.

(18) A "fiddle block" is a block consisting of two sheaves in the same plane held in place by the same cheek plates.

(19) The "foot bearing" or "foot block" (sill block) is the lower support on which the mast rotates.

(20) A "gudgeon pin" is a pin connecting the mast cap to the mast allowing rotation of the mast.

(21) A "guy" is a rope used to steady or secure the mast or other member in the desired position.

(22) "Load, working" means the external load, in pounds, applied to the derrick, including the weight of load attaching equipment such as load blocks, shackles, and slings.

(23) "Load block, lower" means the assembly of sheaves, pins, and frame suspended by the hoisting rope.

(24) "Load block, upper" means the assembly of sheaves, pins, and frame suspended from the boom.

(25) "Mast" means the upright member of the derrick.

(26) "Mast cap (spider)" means the fitting at the top of the mast to which the guys are connected.

(27) "Reeving" means a rope system in which the rope travels around drums and sheaves.

(28) "Rope" refers to wire rope unless otherwise specified.

(29) "Safety hook" means a hook with a latch to prevent slings or load from accidentally slipping off the hook.

(30) "Side loading" is a load applied at an angle to the vertical plane of the boom.

(31) The "sill" is a member connecting the foot block and stiffleg or a member connecting the lower ends of a double member mast.

(32) A "standby derrick" is a derrick not in regular service which is used occasionally or intermittently as required.

(33) "Stiff leg" means a rigid member supporting the mast at the head.

(34) "Swing" means rotation of the mast and/or boom for movements of loads in a horizontal direction about the axis of rotation.

[Order 73-5, § 296-24-24501, filed 5/9/73 and Order 73-4, § 296-24-24501, filed 5/7/73.]

WAC 296-24-24503 General requirements. (1) Application. This section applies to guy, stiffleg, basket, breast, gin pole, Chicago boom and A-frame derricks of the stationary type, capable of handling loads at variable reaches and powered by hoists through systems of rope reeving, used to perform lifting hook work, single or multiple line bucket work, grab, grapple, and magnet work. Derricks may be permanently installed for temporary use as in construction work. The requirements of this section also apply to any modification of these types which retain their fundamental features, except for floating derricks.

(2) New and existing equipment. All new derricks constructed and installed on or after the effective date of these standards shall meet the design specifications of the "American National Standards Institute, Safety Code for Derricks, ANSI B30.6-1969." Derricks constructed prior to the effective date of these standards should be modified to conform to these design specifications by December 31, 1973 unless it can be shown that the derrick cannot feasibly or economically be altered and that the derrick substantially complies with the requirements of this section.

(a) Operating controls shall be marked or an explanation of the controls shall be posted in full view of the operator.

(b) Cranes or derricks having a movable working boom shall have a radius or boom angle indicator installed. This shall be located where the operator can readily read it from the normal operating position.

(c) Top of boom painted. The top six feet of the boom or jib shall be painted bright yellow.

(3) Designated personnel. Only designated personnel shall be permitted to operate a derrick covered by this section.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-24503, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-24503, filed 3/1/76; Order 73-5, § 296-24-24503, filed 5/9/73 and Order 73-4, § 296-24-24503, filed 5/7/73.]

WAC 296-24-24505 Load ratings. (1) Rated load marking. For permanently installed derricks with fixed lengths of boom, guy, and mast, a substantial, durable, and clearly legible rating chart shall be provided with each derrick and securely affixed where it is visible to personnel responsible for the safe operation of the equipment. The chart shall include the following data:

(a) Manufacturer's approved load ratings at corresponding ranges of boom angle or operating radii.

(b) Specific lengths of components on which the load ratings are based.

(c) Required parts for hoist reeving. Size and construction of rope may be shown either on the rating chart or in the operating manual.

(2) Nonpermanent installations. For nonpermanent installations, the employer shall provide sufficient information from which capacity charts can be prepared for the particular installation. The capacity charts shall be located at the derricks or the jobsite office.

[Order 73-5, § 296-24-24505, filed 5/9/73 and Order 73-4, § 296-24-24505, filed 5/7/73.]

WAC 296-24-24507 Inspection. (1) Inspection classification.

(a) Prior to initial use all new and altered derricks shall be inspected to insure compliance with the provisions of these standards.

(b) Inspection procedure for derricks in regular service is divided into two general classifications based upon the intervals at which inspection should be performed. The intervals in turn are dependent upon the nature of the critical components of the derrick and the degree of their exposure to wear, deterioration, or malfunction. The two general classifications are herein designated as frequent and periodic with respective intervals between inspections as defined below:

(i) Frequent inspection - daily to monthly intervals.

(ii) Periodic inspection - 1- to 12-month intervals, or as specified by the manufacturer.

(2) Frequent inspection. Items such as the following shall be inspected for defects at intervals as defined in (1)(b)(i) of this section or as specifically indicated, including observation during operation for any defects which might appear between regular inspections. Deficiencies shall be carefully examined for any safety hazard.

(a) All control mechanisms: Inspect daily for adjustment, wear, and lubrication.

(b) All chords and lacing: Inspect daily, visually.

(c) Tension in guys: Daily.

(d) Plumb of the mast.

(e) Deterioration or leakage in air or hydraulic systems: Daily.

(f) Derrick hooks for deformations or cracks; for hooks with cracks or having more than 15 percent in excess of normal throat opening or more than 10 ° twist from the plane of the unbent hook, refer to WAC 296-24-24511 (3)(c).

(g) Rope reeving; visual inspection for noncompliance with derrick manufacturer's recommendations.

(h) Hoist brakes, clutches, and operating levers: Check daily for proper functioning before beginning operations.

(i) Electrical apparatus for malfunctioning, signs of excessive deterioration, dirt, and moisture accumulation.

(3) Periodic inspection.

(a) Complete inspections of the derrick shall be performed at intervals as generally defined in (1)(b)(ii) of this section depending upon its activity, severity of service, and environment, or as specifically indicated below. These inspections shall include the requirements of (2) of this section and in addition, items such as the following. Deficiencies shall be carefully examined and a determination made as to whether they constitute a safety hazard:

(i) Structural members for deformations, cracks, and corrosion.

(ii) Bolts or rivets for tightness.

(iii) Parts such as pins, bearings, shafts, gears, sheaves, drums, rollers, locking and clamping devices, for wear, cracks, and distortion.

(iv) Gudgeon pin for cracks, wear, and distortion each time the derrick is to be erected.

(v) Power plants for proper performance and compliance with applicable safety requirements.

(vi) Hooks: Magnetic particle or other suitable crack detecting inspection should be performed at least once each year.

(b) Foundation or supports shall be inspected for continued ability to sustain the imposed loads.

(4) Derricks not in regular use.

(a) A derrick which has been idle for a period of 1 month or more, but less than 6 months, shall be given an inspection conforming with requirements of (2) of this section and WAC 296-24-24513(2) before placing in service.

(b) A derrick which has been idle for a period of over 6 months shall be given a complete inspection conforming with requirements of (2) and (3) of this section and WAC 296-24-24513(3) before placing in service.

(c) Standby derricks shall be inspected at least semiannually in accordance with requirements of (2) of this section and WAC 296-24-24513(3). Those exposed to adverse environment should be inspected more frequently.

[Order 73-5, § 296-24-24507, filed 5/9/73 and Order 73-4, § 296-24-24507, filed 5/7/73.]

WAC 296-24-24509 Testing. (1) Operational tests. Prior to initial use all new and altered derricks shall be tested to ensure compliance with this section including the following functions:

(a) Load hoisting and lowering.

(b) Boom up and down.

(c) Swing.

(d) Operation of clutches and brakes of hoist.

(2) Anchorages. All anchorages shall be approved by the appointed person. Rock and hairpin anchorages may require special testing.

[Order 73-5, § 296-24-24509, filed 5/9/73 and Order 73-4, § 296-24-24509, filed 5/7/73.]

WAC 296-24-24511 Maintenance. (1) Preventive maintenance. A preventive maintenance program based on the derrick manufacturer's recommendations shall be established.

(2) Maintenance procedure.

(a) Before adjustments and repairs are started on a derrick the following precautions shall be taken:

(i) The derrick to be repaired shall be arranged so it will cause the least interference with other equipment and operations in the area.

(ii) All hoist drum dogs shall be engaged.

(iii) The main or emergency switch shall be locked in the open position, if an electric hoist is used.

(iv) Warning or out of order signs shall be placed on the derrick and hoist.

(v) The repairs of booms or derricks shall either be made when the booms are lowered and adequately supported or safely tied off.

(vi) A good communication system shall be set up between the hoist operator and the appointed individual in charge of the derrick operations before any work on the equipment is started.

(vii) Welding repairs shall be approved by an appointed person.

(b) After adjustments and repairs have been made the derrick shall not be operated until all guards have been reinstalled, safety devices reactivated, and maintenance equipment removed.

(3) Adjustments and repairs.

(a) Any unsafe conditions disclosed by inspection shall be corrected before operation of the derrick is resumed.

(b) Adjustments shall be maintained to assure correct functioning of components.

(c) Repairs or replacements shall be provided promptly as needed for safe operation. The following are examples of conditions requiring prompt repair or replacement:

(i) Hooks showing defects described in WAC 296-24-24507 (2)(f) shall be discarded.

(ii) All critical parts which are cracked, broken, bent, or excessively worn.

(iii) Pitted or burned electrical contacts should be corrected only by replacement and in sets. Controller parts should be lubricated as recommended by the manufacturer.

(iv) All replacement and repaired parts shall have at least the original safety factor.

[Order 73-5, § 296-24-24511, filed 5/9/73 and Order 73-4, § 296-24-24511, filed 5/7/73.]

WAC 296-24-24513 Rope inspection. (1) Running ropes. A thorough inspection of all ropes in use shall be made at least once a month and a full written, dated, and signed report of rope condition kept on file where readily available. Any deterioration, resulting in appreciable loss of original strength, such as described below, shall be carefully noted and determination made as to whether further use of the rope would constitute a safety hazard:

(a) Reduction of rope diameter below nominal diameter due to loss of core support, internal or external corrosion, or wear of outside wires.

(b) A number of broken outside wires and the degree of distribution or concentration of such broken wires.

(c) Worn outside wires.

(d) Corroded or broken wires at end connections.

(e) Corroded, cracked, bent, worn, or improperly applied end connections.

(f) Severe kinking, crushing, cutting, or unstranding.

(2) Idle ropes. All rope which has been idle for a period of a month or more due to shutdown or storage of derrick on which it is installed shall be given a thorough inspection before it is placed in service. This inspection shall be for all types of deterioration. A written and dated report of the rope condition shall be available.

(3) Nonrotating ropes. Particular care shall be taken in the inspection of nonrotating rope.

Note: Limited travel ropes. Heavy wear and/or broken wires may occur in sections in contact with equalizer sheaves or other sheaves where rope travel is limited, or with saddles. Particular care shall be taken to inspect ropes at these locations.

[Order 73-5, § 296-24-24513, filed 5/9/73 and Order 73-4, § 296-24-24513, filed 5/7/73.]

WAC 296-24-24515 Operations of derricks. Derrick operation shall be directed only by the individual specifically designated for that purpose.

[Order 73-5, § 296-24-24515, filed 5/9/73 and Order 73-4, § 296-24-24515, filed 5/7/73.]

WAC 296-24-24517 Handling the load. (1) Size of load.

(a) No derrick shall be loaded beyond the rated load.

(b) When loads approach the maximum rating of the derrick, it shall be ascertained that the weight of the load has been determined within plus or minus 10 percent before it is lifted.

(2) Attaching the load.

(a) The hoist rope shall not be wrapped around the load.

(b) The load shall be attached to the hook by means of slings or other suitable devices.

(3) Moving the load.

(a) The load shall be well secured and properly balanced in the sling or lifting device before it is lifted more than a few inches.

(b) Before starting to hoist, the following conditions shall be noted:

(i) Hoist rope shall not be kinked.

(ii) Multiple part lines shall not be twisted around each other.

(iii) The hook shall be brought over the load in such a manner as to prevent swinging.

(iv) If there is a slack rope condition, it should be determined that the rope is properly seated on the drum and in the sheaves.

(c) During hoisting, care shall be taken that:

(i) There is no sudden acceleration or deceleration of the moving load.

(ii) Load does not contact any obstructions.

(d) A derrick shall not be used for side loading except when specifically authorized by a responsible person who has determined that the various structural components will not be overstressed.

(e) No hoisting, lowering, or swinging shall be done while anyone is on the load or hook.

(f) The operator shall avoid carrying loads over people.

(g) The operator shall test the brakes each time a load approaching the rated load is handled by raising it a few inches and applying the brakes.

(h) Neither the load nor boom shall be lowered below the point where less than two full wraps of rope remain on their respective drums.

(i) When rotating a derrick, sudden starts and stops shall be avoided. Rotational speed shall be such that the load does not swing out beyond the radius at which it can be controlled.

(j) Boom and hoisting rope systems shall not be twisted.

(4) Holding the load.

(a) The operator shall not be allowed to leave the control position while the load is suspended.

(b) People should not be permitted to stand or pass under a load on the hook.

(c) If the load must remain suspended for any considerable length of time, a dog, or pawl and ratchet, or other equivalent means, rather than the brake alone, shall be used to hold the load.

(5) Use of winch heads.

(a) Ropes shall not be handled on a winch head without the knowledge of the operator.

(b) While a winch head is being used, the operator shall be within convenient reach of the power unit control lever.

(6) Securing boom. Dogs, pawls, or other positive holding mechanism on the hoist shall be engaged. When not in use, the derrick boom shall:

(a) Be laid down;

(b) Be secured to a stationary member, as nearly under the head as possible, by attachment of a sling to the load block; or

(c) Be hoisted to a vertical position and secured to the mast.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-24517, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-24517, filed 5/9/73 and Order 73-4, § 296-24-24517, filed 5/7/73.]

WAC 296-24-24519 Other requirements. (1) Guards.

(a) Exposed moving parts, such as gears, ropes, setscrews, projecting keys, chains, chain sprockets, and reciprocating components, which constitute a hazard under normal operating conditions shall be guarded.

(b) Guards shall be securely fastened.

(c) Each guard shall be capable of supporting without permanent distortion, the weight of a two hundred-pound person unless the guard is located where it is impossible for a person to step on it.

(2) Hooks.

(a) Hooks shall meet the manufacturer's recommendations and shall not be overloaded.

(b) Safety latch type hooks shall be used or the hooks shall be moused.

(3) Fire extinguishers.

(a) A carbon dioxide, dry chemical, or equivalent fire extinguisher shall be kept in the immediate vicinity of the derrick.

(b) Operating and maintenance personnel shall be familiar with the use and care of the fire extinguishers proved.

(4) Refueling.

(a) Refueling with portable containers shall be done with approved safety type containers equipped with automatic closing spout and flame arrester. Refer to WAC 296-24-58501(19) for definition of approved.

(b) Machines shall not be refueled with the engine running.

(5) Operating near electric powerlines. For operations near overhead electric lines see chapter 296-24 WAC Part L.

(6) Cab or operating enclosure.

(a) Necessary clothing and personnel belongings shall be stored in such a manner as to not interfere with access or operation.

(b) Tools, oilcans, waste, extra fuses, and other necessary articles shall be stored in the toolbox, and shall not be permitted to lie loose in or about the cab or operating enclosure.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-24519, filed 11/22/91, effective 12/24/91; 88-23-054 (Order 88-25), § 296-24-24519, filed 11/14/88. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-24519, filed 7/31/79; Order 73-5, § 296-24-24519, filed 5/9/73 and Order 73-4, § 296-24-24519, filed 5/7/73.]

WAC 296-24-260 Helicopters. (1) Helicopter regulations. Helicopter cranes shall be expected to comply with any applicable regulations of the Federal Aviation Administration.

(2) Briefing. Prior to each day's operation, a briefing shall be conducted. This briefing shall set forth the plan of operation for the pilot and ground personnel.

(3) Slings and tag lines. Load shall be properly slung. Tag lines shall be of a length that will not permit their being drawn up into rotors. Pressed sleeve, swedged eyes, or equivalent means shall be used for all freely suspended loads to prevent hand splices from spinning open or cable clamps from loosening.

(4) Cargo hooks. All electrically operated cargo hooks shall have the electrical activating device so designed and installed as to prevent inadvertent operation. In addition, these cargo hooks shall be equipped with an emergency mechanical control for releasing the load. The hooks shall be tested prior to each day's operation to determine that the release functions properly, both electrically and mechanically.

(5) Personal protective equipment.

(a) Personal protective equipment for employees receiving the load shall consist of complete eye protection and hard hats secured by chin straps.

(b) Loose-fitting clothing likely to flap in the downwash and thus be snagged on hoist line shall not be worn.

(6) Loose gear and objects. Every practical precaution shall be taken to provide for the protection of the employees from flying objects in the rotor downwash. All loose gear within one hundred feet of the place of lifting the load, depositing the load, and all other areas susceptible to rotor downwash shall be secured or removed.

(7) Housekeeping. Good housekeeping shall be maintained in all helicopter loading and unloading areas.

(8) Operator responsibility. The helicopter operator shall be responsible for size, weight, and manner in which loads are connected to the helicopter. If, for any reason, the helicopter operator believes the lift cannot be made safely, the lift shall not be made.

(9) Hooking and unhooking loads. Employees shall not perform work under hovering craft except for that limited period of time necessary to guide, secure and unhook loads, or to hook loads. Regardless of whether the hooking or unhooking of a load takes place on the ground or a flat roof, or other location in an elevated work position in structural members, a safe means of access and egress, to include an unprogrammed emergency escape route or routes, shall be provided for the employees who are hooking or unhooking loads.

(10) Static charge. Static charge on the suspended load shall be dissipated with a grounding device before ground personnel touch the suspended load, or protective rubber gloves shall be worn by all ground personnel touching the suspended load.

(11) Weight limitation. The weight of an external load shall not exceed the manufacturer's rating.

(12) Ground lines. Hoist wires or other gear, except for pulling lines or conductors that are allowed to "pay out" from a container or roll off a reel, shall not be attached to any fixed ground structure, or allowed to foul on any fixed structure.

(13) Visibility. When visibility is reduced by dust or other conditions, ground personnel shall exercise special caution to keep clear of main and stabilizing rotors. Precautions shall also be taken by the employer to eliminate as far as practical reduced visibility.

(14) Signal systems. Signal systems between aircrew and ground personnel shall be understood and checked in advance of hoisting the load. This applies to either radio or hand signal systems. Handsignals shall be as shown in Figure L-1.

(15) Approach distance. No unauthorized person shall be allowed to approach within fifty feet of the helicopter when the rotor blades are turning.

(16) Approaching helicopter. Whenever approaching or leaving a helicopter with blades rotating, all employees shall remain in full view of the pilot and keep in a crouched position. Employees shall avoid the area from the cockpit or cabin rearward unless authorized by the helicopter operator to work there.

(17) Personnel. Sufficient ground personnel shall be provided when required for safe helicopter loading and unloading operations.

(18) Communications. There shall be constant reliable communication between the pilot, and a designated employee of the ground crew who acts as a signalperson during the period of loading and unloading. This signalperson shall be distinctly recognizable from other ground personnel.

(19) Fires. Open fires shall not be permitted in an area that could result in such fires being spread by the rotor downwash.

(20) Under no circumstances shall the refueling of any type helicopter with either aviation gasoline or Jet B (Turbine) type fuel be permitted while the engines are running.

(21) Helicopters using Jet A (Turbine-Kerosene) type fuel may be refueled with engines running provided the following criteria is met:

(a) No unauthorized persons shall be allowed within fifty feet of the refueling operation or fueling equipment.

(b) A minimum of one thirty-pound fire extinguisher, or a combination of same, good for Class A, B and C fires, shall be provided within one hundred feet on the upwind side of the refueling operation.

(c) All fueling personnel shall be thoroughly trained in the refueling operation and in the use of the available fire extinguishing equipment they may be expected to utilize.

(d) There shall be no smoking, open flames, exposed flame heaters, flare pots, or open flame lights within fifty feet of the refueling area or fueling equipment. All entrances to the refueling area shall be posted with "NO SMOKING" signs.

(e) Due to the numerous causes of static electricity, it shall be considered present at all times. Prior to starting refueling operations, the fueling equipment and the helicopter shall be grounded and the fueling nozzle shall be electrically bonded to the helicopter. The use of conductive hose shall not be accepted to accomplish this bonding. All grounding and bonding connections shall be electrically and mechanically firm, to clean unpainted metal parts.

(f) To control spills, fuel shall be pumped either by hand or power. Pouring or gravity flow shall not be permitted. Self-closing nozzles or deadman controls shall be used and shall not be blocked open. Nozzles shall not be dragged along the ground.

(g) In case of a spill, the fueling operation shall be immediately stopped until such time as the person-in-charge determines that it is safe to resume the refueling operation.

(h) When ambient temperatures have been in the one hundred degrees Fahrenheit range for an extended period of time, all refueling of helicopters with the engines running shall be suspended until such time as conditions become suitable to resume refueling with the engines running.

(22) Helicopters with their engines stopped being refueled with aviation gasoline or Jet B (Turbine) type fuel, shall also comply with subsection (21)(a) through (g) of this section.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-260, filed 7/20/94, effective 9/20/94; 89-11-035 (Order 89-03), § 296-24-260, filed 5/15/89, effective 6/30/89; Order 76-28, § 296-24-260, filed 9/28/76.]

WAC 296-24-293 "A" frames. (1) All timbers for "A" frames shall be of correct size, length, and condition to sustain the maximum contemplated loads.

(2) "A" frame timbers shall be braced with two spreaders spaced one-quarter the length of the "A" frame from each end. Cross bracing shall cross between the two spreaders. Bracing material shall be not less than two-thirds of the rated strength of the "A" frame timbers.

(3) Tie rods (staybolts) of not less than one-twelfth the diameter of the main "A" frame timbers shall be used. Tie rods shall be placed directly above the upper spreader and directly below the lower spreader. Ends of bolts shall be secured at each end with malleable washers and nuts.

(4) The base of the "A" frame shall be securely anchored. Elevating type "A" frames shall be set in pinion-type sockets. Pinion bases shall be securely anchored.

(5) Guy lines shall be of sufficient strength to carry the load imposed upon them and shall be securely fastened in place.

[Order 73-5, § 296-24-293, filed 5/9/73 and Order 73-4, § 296-24-293, filed 5/7/73.]

WAC 296-24-294 Rigging.

[Order 73-5, § 296-24-294, filed 5/9/73 and Order 73-4, § 296-24-294, filed 5/7/73.]

WAC 296-24-29401 Wire rope. (1) Safe loads. Whenever used in connection with work, employment, occupations or uses to which these standards are applicable, wire rope shall not be subjected to loads in excess of one-fifth the breaking load as given in the schedule of the cable manufacturer. Except as required in standard for material hoists.

(2) Condemned. When cables deteriorate through rust, wear, broken wires, undue strain or other conditions to the extent of fifteen percent of their original strength, use of cables shall be discontinued.

(3) Straps and ribbons. The strap or steel ribbon type of cable shall not be used in the suspension of scaffolding.

(4) Inspections. There shall be not less than monthly inspection of all wire rope in use, and all wire rope must be inspected before put into use.

(5) Fastening. The following methods of fastening and attaching wire rope shall be adhered to:

(a) Sockets. The end of wire rope to be set into socket fittings held securely with molten babbitt or zinc (not lead). The wires of the cable shall be frayed out and each wire bent toward the outside of socket, so that the end of each wire projects well into the depth of the socket. This method of fastening cables should be left in the hands of an experienced workers in this kind of work.

(b) Wrapping. Thimbles spliced into rope and the splice securely wrapped.

(c) Bolted. Thimbles inserted and held in place by at least a three bolt clamp or three U-bolt clips. Clamps shall be of standard size for the sizes of the cable in use.

(d) Lashing. For temporary work, by-passing rope at least twice around large object such as a post, avoiding sharp points and carrying the end back several feet and securing it by clamps, clips or lashing to the cable.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-29401, filed 7/20/94, effective 9/20/94; Order 76-29, § 296-24-29401, filed 9/30/76; Order 73-5, § 296-24-29401, filed 5/9/73 and Order 73-4, § 296-24-29401, filed 5/7/73.]

WAC 296-24-29403 Hemp rope. (1) Quality. Whenever hemp rope is used it shall be first grade long fiber Manila hemp rope.

(2) Strength. Rope shall not be used to support loads in excess of those given in table for hemp and Manila rope.

(3) Lashed. Supporting ropes shall be double lashed at each point of suspension.

(4) Pads. Where supporting ropes are brought over sharp corners of steel, stone, or other material liable to cut the rope, or are in any other way subject to abrasion, they shall be protected at such points by the use of bagging, wooden blocks or other protective padding.

(5) Knot ends. Rope knots shall have their loose and free ends lashed to the standing part in order to prevent their becoming untied.

(6) Inspection. All ropes shall be inspected before used.

(7) Defective rope. Rope badly frayed, rotted, exposed to the action of acid or caustic, or otherwise defective and unsafe, shall be condemned and destroyed to avoid all possibility of future use by mistake.

[Order 73-5, § 296-24-29403, filed 5/9/73 and Order 73-4, § 296-24-29403, filed 5/7/73.]

WAC 296-24-29405 Hemp and wire rope slings. (1) Inspection. All rope slings shall be inspected thoroughly and regularly at intervals of not more than one month, and when not in use, shall be stored in a dry place.

(2) Pads. Rope slings shall be protected with pads or blocks when wrapped around sharp edges of structural shapes, casting, etc.

(3) Slip-noose. Slings shall not be used in single strand slip-noose form.

(4) Acids. Hemp rope shall not be used as slings for handling objects contaminated with acid.

(5) How attached. Hand-ropes (guide-ropes) shall not be attached to slings but to hoisting tackle, or (only when necessary) attached to the object handled.

(6) Strength. All slings shall be of sufficient strength for handling the imposed loads. See tables given for hemp and wire ropes.

(7) Double slings. Double slings shall be used on all horizontal loads over twelve feet in length, and the distance between the points where slings are attached shall be sufficient to prevent the load from tipping up endwise.

(8) Spreaders. Spreaders shall be used where there is a danger of sling ends or "hitches" slipping together.

(9) Defective—Destroyed. Defective and unsafe slings shall be destroyed in order to avoid possibility of their being used by mistake.

[Order 73-5, § 296-24-29405, filed 5/9/73 and Order 73-4, § 296-24-29405, filed 5/7/73.]

WAC 296-24-29407 Guys. Guy wires and ropes shall be of sufficient strength to carry the load imposed upon them and shall be securely fastened in place.

[Order 73-5, § 296-24-29407, filed 5/9/73 and Order 73-4, § 296-24-29407, filed 5/7/73.]

WAC 296-24-29409 Thimbles. Wherever rope is permanently fastened by a single wrap to a metal object less in diameter or shortest measurement than three times the diameter of the rope, a galvanized thimble (of size intended for the rope) shall be inserted between the object and the loop of the rope.

[Order 73-5, § 296-24-29409, filed 5/9/73 and Order 73-4, § 296-24-29409, filed 5/7/73.]

WAC 296-24-29411 Blocks and falls. Blocks and falls shall be carefully inspected before being used. Blocks shall be of substantial construction and maintained in good condition while in use. Blocks shall fit the sizes of ropes they carry and shall not chafe or abrade the ropes running through them.

[Order 73-5, § 296-24-29411, filed 5/9/73 and Order 73-4, § 296-24-29411, filed 5/7/73.]

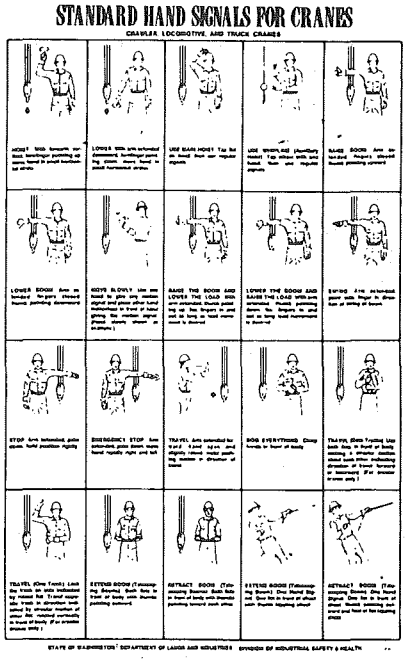
WAC 296-24-29413 Chains and cables. (1) If at any time any three foot length of chain is found to have stretched one-third the length of a link it shall be discarded.

(2) The practice of placing bolts or nails between two links to shorten chains is prohibited.

(3) Splicing broken chains by inserting a bolt between two links with the heads of the bolt and the nut sustaining the load, or passing one link through another and inserting a bolt or nail to hold it, is prohibited.

(4) Wherever annealing of chains is attempted, it shall be done in properly equipped annealing furnaces and under the direct supervision of a competent person thoroughly versed in heat treating.

(5) Cables shall be periodically inspected. A copy of the report of the inspections of each running cable shall be filed in a place readily accessible to the department, or authorized representative.



CRANE SIGNALS

1. Do not remove the load or the crane unless you understand the floor signal clearly.
2. Be careful that the load does not swing to injure your hook-on man/woman or other floorpersons; make certain they are in the clear.
3. When raising or lowering the load, see that it will safely clear adjacent stockpiles or machinery.
4. Never pick up a load greater than the capacity of your crane. In case of doubt, call your foreperson.
5. Never do ANYTHING that is not safe.
6. Co-operate with your hook-on or floorperson. You and he/she are a team handling a valuable piece of equipment—Never let it become a hazard.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-29413, filed 11/13/80; Order 73-5, § 296-24-29413, filed 5/9/73 and Order 73-4, § 296-24-29413, filed 5/7/73.]

WAC 296-24-29415 Slings. This section applies to slings used in conjunction with other material handling equipment for the movement of material by hoisting, in employments covered by this chapter. The types of slings covered are those made from alloy steel chain, wire rope, metal mesh, natural or synthetic fiber rope (conventional three strand construction), and synthetic web (nylon, polyester, and polypropylene).

[Order 76-6, § 296-24-29415, filed 3/1/76.]

WAC 296-24-29417 Definitions. (1) Angle of loading. Means the inclination of a leg or branch of a sling measured from the horizontal or vertical plane as shown in Fig. D-5: Provided, That an angle of loading of five degrees or less from the vertical may be considered a vertical angle of loading.

(2) Basket hitch. Means a sling configuration whereby the sling is passed under the load and has both ends, end attachments, eyes or handles on the hook or a single master link.

(3) Braided wire rope. Means a wire rope formed by plaiting component wire ropes.

(4) Bridle wire rope sling. Means a sling composed of multiple wire rope legs with the top ends gathered in a fitting that goes over the lifting hook.

(5) Cable laid endless sling-mechanical joint. Means a wire rope sling made endless by joining the ends of a single length of cable laid rope with one or more metallic fittings.

(6) Cable laid grommet-hand tucked. Means an endless wire rope sling made from one length of rope wrapped six times around a core formed by hand tucking the ends of the rope inside the six wraps.

(7) Cable laid rope. Means a wire rope composed of six wire ropes wrapped around a fiber or wire rope core.

(8) Cable laid rope sling-mechanical joint. Means a wire rope sling made from a cable laid rope with eyes fabricated by pressing or swagging one or more metal sleeves over the rope junction.

(9) Choker hitch. Means a sling configuration with one end of the sling passing under the load and through an end attachment, handle or eye on the other end of the sling.

(10) Coating. Means an elastomer or other suitable material applied to a sling or to a sling component to impart desirable properties.

(11) Cross rod. Means a wire used to join spirals of metal mesh to form a complete fabric. (See Fig. D-2.)

(12) Designated. Means selected or assigned by the employer or the employer's representative as being qualified to perform specific duties.

(13) Equivalent entity. Means a person or organization (including an employer) which, by possession of equipment, technical knowledge and skills, can perform with equal competence the same repairs and tests as the person or organization with which it is equated.

(14) Fabric (metal mesh). Means the flexible portion of a metal mesh sling consisting of a series of transverse coils and cross rods.

(15) Female handle (choker). Means a handle with a handle eye and a slot of such dimension as to permit passage of a male handle thereby allowing the use of a metal mesh sling in a choker hitch. (See Fig. D-1.)

(16) Handle. Means a terminal fitting to which metal mesh fabric is attached. (See Fig. D-1.)

(17) Handle eye. Means an opening in a handle of a metal mesh sling shaped to accept a hook, shackle or other lifting device. (See Fig. D-1.)

(18) Hitch. Means a sling configuration whereby the sling is fastened to an object or load, either directly to it or around it.

(19) Link. Means a single ring of a chain.

(20) Male handle (triangle). Means a handle with a handle eye.

(21) Master coupling link. Means an alloy steel welded coupling link used as an intermediate link to join alloy steel chain to master links. (See Fig. D-3.)

(22) Master link or gathering ring. Means a forged or welded steel link used to support all members (legs) of an alloy steel chain sling or wire rope sling. (See Fig. D-3.)

(23) Mechanical coupling link. Means a nonwelded, mechanically closed steel link used to attach master links, hooks, etc., to alloy steel chain.

(24) Proof load. Means the load applied in performance of a proof test.

(25) Proof test. Means a nondestructive tension test performed by the sling manufacturer or an equivalent entity to verify construction and workmanship of a sling.

(26) Rated capacity or working load limit. Means the maximum working load permitted by the provisions of this section.

(27) Reach. Means the effective length of an alloy steel chain sling measured from the top bearing surface of the upper terminal component to the bottom bearing surface of the lower terminal component.

(28) Selvage edge. Means the finished edge of synthetic webbing designed to prevent unraveling.

(29) Sling. Means an assembly which connects the load to the material handling equipment.

(30) Sling manufacturer. Means a person or organization that assembles sling components into their final form for sale to users.

(31) Spiral. Means a single transverse coil that is the basic element from which metal mesh is fabricated. (See Fig. D-2.)

(32) Strand laid endless sling-mechanical joint. Means a wire rope sling made endless from one length of rope with the ends joined by one or more metallic fittings.

(33) Strand laid grommet-hand tucked. Means an endless wire rope sling made from one length of strand wrapped six times around a core formed by hand tucking the ends of the strand inside the six wraps.

(34) Strand laid rope. Means a wire rope made with strands (usually six or eight) wrapped around a fiber core, wire strand core, or independent wire rope core (IWRC).

(35) Vertical hitch. Means a method of supporting a load by a single, vertical part or leg of the sling. (See Fig. D-4.)

[Order 76-6, § 296-24-29417, filed 3/1/76.]

WAC 296-24-29419 Safe operating practices. Whenever any sling is used, the following practices shall be observed:

(1) Slings that are damaged or defective shall not be used.

(2) Slings shall not be shortened with knots or bolts or other makeshift devices.

(3) Sling legs shall not be kinked.

(4) Slings shall not be loaded in excess of their rated capacities.

(5) Slings used in a basket hitch shall have the loads balanced to prevent slippage.

(6) Slings shall be securely attached to their loads.

(7) Slings shall be padded or protected from the sharp edges of their loads.

(8) Suspended loads shall be kept clear of all obstructions.

(9) All employees shall be kept clear of loads about to be lifted and of suspended loads.

(10) Hands or fingers shall not be placed between the sling and its load while the sling is being tightened around the load.

(11) Shock loading is prohibited.

(12) A sling shall not be pulled from under a load when the load is resting on the sling.

[Order 76-6, § 296-24-29419, filed 3/1/76.]

WAC 296-24-29421 Inspections. Each day before being used, the sling and all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use, where service conditions warrant. Damaged or defective slings shall be immediately removed from service.

[Order 76-6, § 296-24-29421, filed 3/1/76.]

WAC 296-24-29423 Alloy steel chain slings. (1) Sling identification. Alloy steel chain slings shall have permanently affixed durable identification stating size, grade, rated capacity and reach.

(2) Attachments.

(a) Hooks, rings, oblong links, pear shaped links, welded or mechanical coupling links or other attachments shall have a rated capacity at least equal to that of the alloy steel chain with which they are used or the sling shall not be used in excess of the rated capacity of the weakest component.

(b) Makeshift links or fasteners formed from bolts or rods, or other such attachments, shall not be used.

(3) Inspections.

(a) In addition to the inspection required by WAC 296-24-29421, a thorough periodic inspection of alloy steel chain slings in use shall be made on a regular basis, to be determined on the basis of:

(i) Frequency of sling use;

(ii) Severity of service conditions;

(iii) Nature of lifts being made; and

(iv) Experience gained on the service life of slings used in similar circumstances. Such inspections shall in no event be at intervals greater than once every 12 months.

(b) The employer shall make and maintain a record of the most recent month in which each alloy steel chain sling was thoroughly inspected, and shall make such record available for examination.

(c) The thorough inspection of alloy steel chain slings shall be performed by a competent person designated by the employer, and shall include a thorough inspection for wear, defective welds, deformation and increase in length. Where such defects or deterioration are present, the sling shall be immediately removed from service.

(4) Proof testing. The employer shall ensure that before use, each new, repaired, or reconditioned alloy steel chain sling, including all welded components in the sling assembly, shall be proof tested by the sling manufacturer or equivalent entity, in accordance with paragraph 5.2 of the American Society of Testing and Materials Specification A391-65 (ANSI G61.1-1968). The employer shall retain a certificate of the proof test and shall make it available for examination.

(5) Sling use. Alloy steel chain slings shall not be used with loads in excess of the rated capacities prescribed in Table D-1. Slings not included in this table shall be used only in accordance with the manufacturer's recommendations.

(6) Safe operating temperatures. Alloy steel chain slings shall be permanently removed from service if they are heated above 1000°F. When exposed to service temperatures in excess of 600°F maximum working load limits permitted in Table D-1 shall be reduced in accordance with the chain or sling manufacturer's recommendations.

(7) Repairing and reconditioning alloy steel chain slings.

(a) Worn or damaged alloy steel chain slings or attachments shall not be used until repaired. When welding or heat testing is performed, slings shall not be used unless repaired, reconditioned and proof tested by the sling manufacturer or an equivalent entity.

(b) Mechanical coupling links or low carbon steel repair links shall not be used to repair broken lengths of chain.

(8) Effects of wear. If the chain size at any point of any links is less than that stated in Table D-2, the sling shall be removed from service.

(9) Deformed attachments.

(a) Alloy steel chain sling with cracked or deformed master links, coupling links or other components shall be removed from service.

(b) Slings shall be removed from service if hooks are cracked, have been opened more than 15 percent of the normal throat opening measured at the narrowest point or twisted more than 10 degrees from the plane of the unbent hook.

[Order 76-29, § 296-24-29423, filed 9/30/76; Order 76-6, § 296-24-29423, filed 3/1/76.]

WAC 296-24-29425 Wire rope slings. (1) Sling use. Wire rope slings shall not be used with loads in excess of the rated capacities shown in Tables D-3 through D-14. Slings not included in these tables shall be used only in accordance with the manufacturer's recommendations.

(2) Minimum sling lengths.

(a) Cable laid and 6x19 and 6x37 slings shall have a minimum clear length of wire rope 10 times the component rope diameter between splices, sleeves or end fittings.

(b) Braided slings shall have a minimum clear length of wire rope 40 times the component rope diameter between the loops or end fittings.

(c) Cable laid grommets, strand laid grommets and endless slings shall have a minimum circumferential length of 96 times their body diameter.

(3) Safe operating temperatures. Fiber core wire rope slings of all grades shall be permanently removed from service if they are exposed to temperatures in excess of 200°F. When nonfiber core wire rope slings of any grade are used at temperatures above 400°F or below minus 60°F, recommendations of the sling manufacturer regarding use at that temperature shall be followed.

(4) End attachments.

(a) Welding of end attachments, except covers to thimbles, shall be performed prior to the assembly of the sling.

(b) All welded end attachments shall not be used unless proof tested by the manufacturer or equivalent entity at twice their rated capacity prior to initial use. The employer shall retain a certificate of the proof test, and make it available for examination.

(5) Removal from service. Wire rope slings shall be immediately removed from service if any of the following conditions are present:

(a) Ten randomly distributed broken wires in one rope lay, or five broken wires in one strand in one rope lay.

(b) Wear or scraping of one-third the original diameter of outside individual wires.

(c) Kinking, crushing, bird caging or any other damage resulting in distortion of the wire rope structure.

(d) Evidence of heat damage.

(e) End attachments that are cracked, deformed or worn.

(f) Hooks that have been opened more than 15 percent of the normal throat opening measured at the narrowest point or twisted more than 10 degrees from the plane of the unbent hook.

(g) Corrosion of the rope or end attachments.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-29425, filed 7/31/79; Order 76-6, § 296-24-29425, filed 3/1/76.]

WAC 296-24-29427 Metal mesh slings. (1) Sling marking. Each metal mesh sling shall have permanently affixed to it a durable marking that states the rated capacity for vertical basket hitch and choker hitch loadings.

(2) Handles. Handles shall have a rated capacity at least equal to the metal fabric and exhibit no deformation after proof testing.

(3) Attachments of handles to fabric. The fabric and handles shall be joined so that:

(a) The rated capacity of the sling is not reduced.

(b) The load is evenly distributed across the width of the fabric.

(c) Sharp edges will not damage the fabric.

(4) Sling coatings. Coatings which diminish the rated capacity of a sling shall not be applied.

(5) Sling testing. All new and repaired metal mesh slings, including handles, shall not be used unless proof tested by the manufacturer or equivalent entity at a minimum of 1-1/2 times their rated capacity. Elastomer impregnated slings shall be proof tested before coating.

(6) Proper use of metal mesh slings. Metal mesh slings shall not be used to lift loads in excess of their rated capacities as prescribed in Table D-15. Slings not included in this table shall be used only in accordance with the manufacturer's recommendations.

(7) Safe operating temperatures. Metal mesh slings which are not impregnated with elastomers may be used in a temperature range from minus 20°F to plus 550°F without decreasing the working load limit. Metal mesh slings impregnated with polyvinyl chloride or neoprene may be used only in a temperature range from zero degrees to plus 200°F. For operations outside these temperature ranges or for metal mesh slings impregnated with other materials, the sling manufacturer's recommendations shall be followed.

(8) Repairs.

(a) Metal mesh slings which are repaired shall not be used unless repaired by a metal mesh sling manufacturer or an equivalent entity.

(b) Once repaired, each sling shall be permanently marked or tagged, or a written record maintained, to indicate the date and nature of the repairs and the person or organization that performed the repairs. Records of repairs shall be made available for examination.

(9) Removal from service. Metal mesh slings shall be immediately removed from service if any of the following conditions are present:

(a) A broken weld or broken brazed joint along the sling edge.

(b) Reduction in wire diameter of 25 percent due to abrasion or 15 percent due to corrosion.

(c) Lack of flexibility due to distortion of the fabric.

(d) Distortion of the female handle so that the depth of the slot is increased more than 10 percent.

(e) Distortion of either handle so that the width of the eye is decreased more than 10 percent.

(f) A 15 percent reduction of the original cross sectional area of metal at any point around the handle eye.

(g) Distortion of either handle out of its plane.

[Order 76-6, § 296-24-29427, filed 3/1/76.]

WAC 296-24-29429 Natural and synthetic fiber rope slings. (1) Sling use.

(a) Fiber rope slings made from conventional three strand construction fiber rope shall not be used with loads in excess of the rated capacities prescribed in Tables D-16 through D-19.

(b) Fiber rope slings shall have a diameter of curvature meeting at least the minimums specified in Figs. D-4 and D-5.

(c) Slings not included in these tables shall be used only in accordance with the manufacturer's recommendations.

(2) Safe operating temperatures. Natural and synthetic fiber rope slings, except for wet frozen slings, may be used in a temperature range from minus 20°F to plus 180°F without

decreasing the working load limit. For operations outside this temperature range and for wet frozen slings, the sling manufacturer's recommendations shall be followed.

(3) Splicing. Spliced fiber rope slings shall not be used unless they have been spliced in accordance with the following minimum requirements and in accordance with any additional recommendations of the manufacturer:

(a) In manila rope, eye splices shall consist of at least three full tucks, and short splices shall consist of at least six full tucks, three on each side of the splice center line.

(b) In synthetic fiber rope, eye splices shall consist of at least four full tucks, and short splices shall consist of at least eight full tucks, four on each side of the center line.

(c) Strand end tails shall not be trimmed flush with the surface of the rope immediately adjacent to the full tucks. This applies to all types of fiber rope and both eye and short splices. For fiber rope under one inch in diameter, the tail shall project at least six rope diameters beyond the last full tuck. For fiber rope one inch in diameter and larger, the tail shall project at least six inches beyond the last full tuck. Where a projecting tail interferes with the use of the sling, the tail shall be tapered and spliced into the body of the rope using at least two additional tucks (which will require a tail length of approximately six rope diameters beyond the last full tuck).

(d) Fiber rope slings shall have a minimum clear length of rope between eye splices equal to 10 times the rope diameter.

(e) Knots shall not be used in lieu of splices.

(f) Clamps not designed specifically for fiber ropes shall not be used for splicing.

(g) For all eye splices, the eye shall be of such size to provide an included angle of not greater than 60 degrees at the splice when the eye is placed over the load or support.

(4) End attachments. Fiber rope slings shall not be used if end attachments in contact with the rope have sharp edges or projections.

(5) Removal from service. Natural and synthetic fiber rope slings shall be immediately removed from service if any of the following conditions are present:

(a) Abnormal wear.

(b) Powdered fiber between strands.

(c) Broken or cut fibers.

(d) Variations in the size or roundness of strands.

(e) Discoloration or rotting.

(f) Distortion of hardware in the sling.

(6) Repairs. Only fiber rope slings made from new rope shall be used. Use of repaired or reconditioned fiber rope slings is prohibited.

[Order 76-6, § 296-24-29429, filed 3/1/76.]

WAC 296-24-29431 Synthetic web slings. (1) Sling identification. Each sling shall be marked or coded to show the rated capacities for each type of hitch and type of synthetic web material.

(2) Webbing. Synthetic webbing shall be of uniform thickness and width and selvage edges shall not be split from the webbing's width.

(3) Fittings. Fittings shall be:

(a) Of a minimum breaking strength equal to that of the sling; and

(b) Free of all sharp edges that could in any way damage the webbing.

(4) Attachment of end fittings to webbing and formation of eyes. Stitching shall be the only method used to attach end fittings to webbing and to form eyes. The thread shall be in an even pattern and contain a sufficient number of stitches to develop the full breaking strength of the sling.

(5) Sling use. Synthetic web slings illustrated in Figure D-6 shall not be used with loads in excess of the rated capacities specified in Tables D-20 through D-22. Slings not included in these tables shall be used only in accordance with the manufacturer's recommendations.

(6) Environmental conditions. When synthetic web slings are used, the following precautions shall be taken:

(a) Nylon web slings shall not be used where fumes, vapors, sprays, mists or liquids of acids or phenolics are present.

(b) Polyester and polypropylene web slings shall not be used where fumes, vapors, sprays, mists or liquids of caustics are present.

(c) Web slings with aluminum fittings shall not be used where fumes, vapors, sprays, mists or liquids of caustics are present.

(7) Safe operating temperatures. Synthetic web slings of polyester and nylon shall not be used at temperatures in excess of 180°F. Polypropylene web slings shall not be used at temperatures in excess of 200°F.

(8) Repairs.

(a) Synthetic web slings which are repaired shall not be used unless repaired by a sling manufacturer or an equivalent entity.

(b) Each repaired sling shall be proof tested by the manufacturer or equivalent entity to twice the rated capacity prior to its return to service. The employer shall retain a certificate of the proof test and make it available for examination.

(c) Slings, including webbing and fittings, which have been repaired in a temporary manner shall not be used.

(9) Removal from service. Synthetic web slings shall be immediately removed from service if any of the following conditions are present:

(a) Acid or caustic burns;

(b) Melting or charring of any part of the sling surface;

(c) Snags, punctures, tears or cuts;

(d) Broken or worn stitches; or

(e) Distortion of fittings.

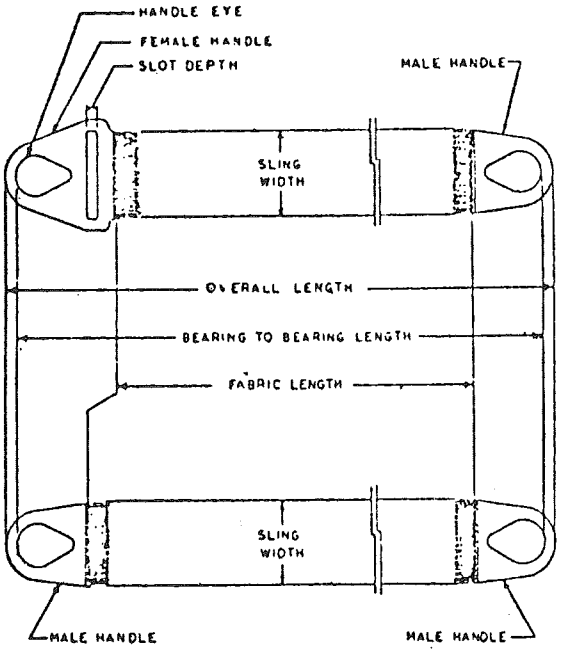


Figure D-1
Metal Mesh Sling (Typical)

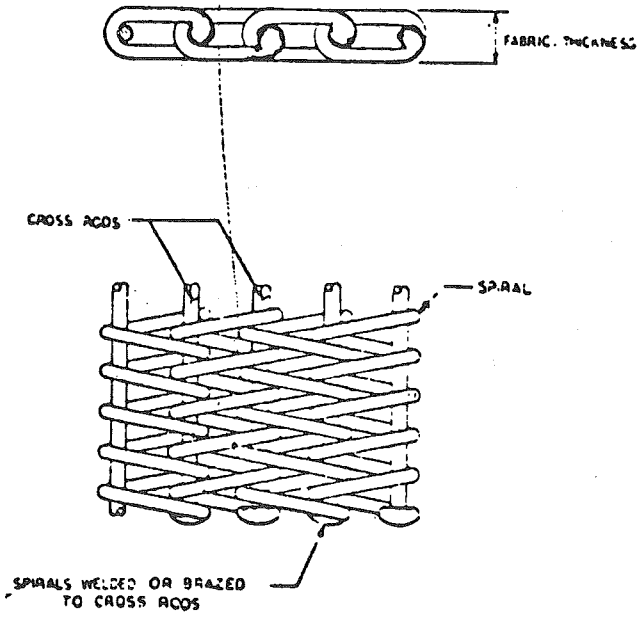


Figure D-2
Metal Mesh Construction

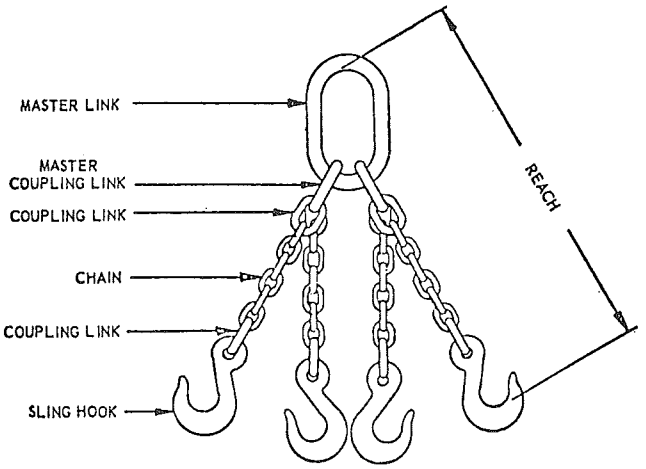


Figure D-3
Major Components of a Quadruple Sling

TABLE D-1
RATED CAPACITY (WORKING LOAD LIMIT), FOR ALLOY STEEL CHAIN SLINGS* RATED CAPACITY (WORKING LOAD LIMIT), POUNDS

TABLE D-1: Part 1—Double Slings

Chain Size, Inches	Single Branch Sling - 90 degree Loading	Double Sling Vertical Angle[1] 45 degree Horizontal Angle[2] 30 degree	Double Sling Vertical Angle[1] 45 degree Horizontal Angle[2] 45 degree	Double Sling Vertical Angle[1] 60 degree Horizontal Angle[2] 30 degree
		60 degree		
1/4	3,250	5,650	4,550	3,250
3/8	6,600	11,400	9,300	6,600
1/2	11,250	19,500	15,900	11,250
5/8	16,500	28,500	23,300	16,500
3/4	23,000	39,800	32,500	23,000
7/8	28,750	49,800	40,600	28,750
1	38,750	67,100	54,800	38,750
1- 1/8	44,500	77,000	63,000	44,500
1- 1/4	57,500	99,500	81,000	57,500
1- 3/8	67,000	116,000	94,000	67,000
1- 1/2	80,000	138,000	112,500	80,000
1- 3/4	100,000	172,000	140,000	100,000

[1]Rating of multileg slings adjusted for angle of loading measured as the included angle between the inclined leg and the vertical as shown in Figure D-5.

[2]Rating of multileg slings adjusted for angle of loading between the inclined leg and the horizontal plane of the load, as shown in Figure D-5.

[3]Quadruple sling rating is same as triple sling because normal lifting practice may not distribute load uniformly to all 4 legs.

TABLE D-1: Part 2—Triple and Quadruple Slings

Chain Size, Inches	Single Branch Sling - 90 degree Loading	Triple and Quadruple Sling[3] Vertical Angle[1] 45 degree Horizontal Angle[2] 30 degree	Triple and Quadruple Sling[3] Vertical Angle[1] 45 degree Horizontal Angle[2] 45 degree	Triple and Quadruple Sling[3] Vertical Angle[1] 60 degree Horizontal Angle[2] 30 degree
		60 degree		
1/4	3,250	8,400	6,800	4,900
3/8	6,600	17,000	14,000	9,900
1/2	11,250	29,000	24,000	17,000
5/8	16,500	43,000	35,000	24,500
3/4	23,000	59,500	48,500	34,500
7/8	28,750	74,500	61,000	43,000

Chain Size, Inches	Single Branch Sling - 90 degree Loading	30 degree	Triple and Quadruple Sling[3] Vertical Angle[1] 45 degree Horizontal Angle[2] 45 degree	60 degree	30 degree
1	38,750	101,000	82,000	58,000	
1- 1/8	44,500	115,500	94,500	66,500	
1- 1/4	57,500	149,000	121,500	86,000	
1- 3/8	67,000	174,000	141,000	100,500	
1- 1/2	80,000	207,000	169,000	119,500	
1- 3/4	100,000	258,000	210,000	150,000	

[1]Rating of multileg slings adjusted for angle of loading measured as the included angle between the inclined leg and the vertical as shown in Figure D-5.

[2]Rating of multileg slings adjusted for angle of loading between the inclined leg and the horizontal plane of the load, as shown in Figure D-5.

[3]Quadruple sling rating is same as triple sling because normal lifting practice may not distribute load uniformly to all 4 legs.

TABLE D-2
MINIMUM ALLOWABLE CHAIN SIZE AT ANY POINT OF LINK

Chain Size, Inches	Minimum Allowable Chain Size, Inches
1/4	13/64
3/8	19/64
1/2	25/64
5/8	31/64
3/4	19/32
7/8	45/64
1	13/16
1- 1/8	29/32
1- 1/4	1
1- 3/8	1- 3/32
1- 1/2	1- 3/16
1- 3/4	1-13/32

TABLE D-3
RATED CAPACITIES FOR SINGLE LEG SLINGS 6x19 AND 6x37 CLASSIFICATION IMPROVED PLOW STEEL GRADE ROPE WITH FIBER CORE (FC)

Rope Dia. (Inches)	Constr.	Rated Capacities, Tons (2,000 lb) Vertical HT	MS	S	Choker HT	MS	S	Vertical Basket* HT	MS	S
1/4	6x19	0.49	0.51	0.55	0.37	0.38	0.41	0.99	1.0	1.1
5/16	6x19	0.76	0.79	0.85	0.57	0.59	0.64	1.5	1.6	1.7
3/8	6x19	1.1	1.1	1.2	0.80	0.85	0.91	2.1	2.2	2.4
7/16	6x19	1.4	1.5	1.6	1.1	1.1	1.2	2.9	3.0	3.3
1/2	6x19	1.8	2.0	2.1	1.4	1.5	1.6	3.7	3.9	4.3
9/16	6x19	2.3	2.5	2.7	1.7	1.9	2.0	4.6	5.0	5.4
5/8	6x19	2.8	3.1	3.3	2.1	2.3	2.5	5.6	6.2	6.7
3/4	6x19	3.9	4.4	4.8	2.9	3.3	3.6	7.8	8.8	9.5
7/8	6x19	5.1	5.9	6.4	3.9	4.5	4.8	10.0	12.0	13.0
1	6x19	6.7	7.7	8.4	5.0	5.8	6.3	13.0	15.0	17.0
1- 1/8	6x19	8.4	9.5	10.0	6.3	7.1	7.9	17.0	19.0	21.0
1- 1/4	6x37	9.8	11.0	12.0	7.4	8.3	9.2	20.0	22.0	25.0
1- 3/8	6x37	12.0	13.0	15.0	8.9	10.0	11.0	24.0	27.0	30.0
1- 1/2	6x37	14.0	16.0	17.0	10.0	12.0	13.0	28.0	32.0	35.0
1- 5/8	6x37	16.0	18.0	21.0	12.0	14.0	15.0	33.0	37.0	41.0
1- 3/4	6x37	19.0	21.0	24.0	14.0	16.0	18.0	38.0	43.0	48.0
2	6x37	25.0	28.0	31.0	18.0	21.0	23.0	49.0	55.0	62.0

HT= Hand tucked splice and hidden tuck splice
For hidden tuck splice (IWRC) use value in HT columns.
M= Mechanical splice.
S= Swaged or zinc poured socket.
* These values only apply when the D/d ratio for HT slings is 10 or greater, and for MS and S slings is 20 or greater where:
D = Diameter of curvature around which the body of the sling is bent.
d = Diameter of rope.

TABLE D-4
RATED CAPACITIES FOR SINGLE LEG SLINGS 6x19 AND 6x37 CLASSIFICATION IMPROVED PLOW STEEL GRADE ROPE WITH INDEPENDENT WIRE ROPE CORE (IWRC)

Rope Dia. (Inches)	Constr.	Rated Capacities, Tons (2,000 lb) Vertical HT	MS	S	Choker HT	MS	S	Vertical Basket* HT	MS	S
1/4	6x19	0.53	0.56	0.59	0.40	0.42	0.44	1.0	1.1	1.2
5/16	6x19	0.81	0.87	0.92	0.61	0.65	0.69	1.6	1.7	1.8
3/8	6x19	1.1	1.2	1.3	0.86	0.93	0.98	2.3	2.5	2.6
7/16	6x19	1.5	1.7	1.8	1.2	1.3	1.3	3.1	3.4	3.5
1/2	6x19	2.0	2.2	2.3	1.5	1.6	1.7	3.9	4.4	4.6
9/16	6x19	2.5	2.7	2.9	1.8	2.1	2.2	4.9	5.5	5.8
5/8	6x19	3.0	3.4	3.6	2.2	2.5	2.7	6.0	6.8	7.2
3/4	6x19	4.2	4.9	5.1	3.1	3.6	3.8	8.4	9.7	10.0
7/8	6x19	5.5	6.6	6.9	4.1	4.9	5.2	11.0	13.0	14.0
1	6x19	7.2	8.5	9.0	5.4	6.4	6.7	14.0	17.0	18.0
1- 1/8	6x19	9.0	10.0	11.0	6.8	7.8	8.5	18.0	21.0	23.0
1- 1/4	6x37	10.0	12.0	13.0	7.9	9.2	9.9	21.0	24.0	26.0
1- 3/8	6x37	13.0	15.0	16.0	9.6	11.0	12.0	25.0	29.0	32.0
1- 1/2	6x37	15.0	17.0	19.0	11.0	13.0	14.0	30.0	35.0	38.0
1- 5/8	6x37	18.0	20.0	22.0	13.0	15.0	17.0	35.0	41.0	44.0
1- 3/4	6x37	20.0	24.0	26.0	15.0	18.0	19.0	41.0	47.0	51.0
2	6x37	26.0	30.0	33.0	20.0	23.0	25.0	53.0	61.0	66.0

HT = Hand tucked splice.
For hidden tuck splice (IWRC) use Table I value in HT columns.
MS = Mechanical splice.
S = Swaged or zinc poured socket.
* These values only apply when the D/d ratio for HT slings is 10 or greater, and for MS and S slings is 20 or greater where:
D = Diameter of curvature around which the body of the sling is bent.
d = Diameter of rope.

TABLE D-5
RATED CAPACITIES FOR SINGLE LEG SLINGS CABLE LAID ROPE - MECHANICAL SPLICE ONLY 7x7x7 AND 7x7x19 CONSTRUCTIONS GALVANIZED AIRCRAFT GRADE ROPE 7x6x19 IWRC CONSTRUCTION IMPROVED PLOW STEEL GRADE ROPE

Rope Dia. (Inches)	Constr.	Rated Capacities, Tons (2,000 lb) Vertical	Choker	Vertical Basket*
1/4	7x7x7	0.50	0.38	1.0
3/8	7x7x7	1.1	0.81	2.0
1/2	7x7x7	1.8	1.4	3.7
5/8	7x7x7	2.8	2.1	5.5
3/4	7x7x7	3.8	2.9	7.6
5/8	7x7x19	2.9	2.2	5.8
3/4	7x7x19	4.1	3.0	8.1
7/8	7x7x19	5.4	4.0	11.0
1	7x7x19	6.9	5.1	14.0
1- 1/8	7x7x19	8.2	6.2	16.0
1- 1/4	7x7x19	9.9	7.4	20.0
3/4	7x6x19 IWRC	3.8	2.8	7.6
7/8	7x6x19 IWRC	5.0	3.8	10.0
1	7x6x19 IWRC	6.4	4.8	13.0
1- 1/8	7x6x19 IWRC	7.7	5.8	15.0
1- 1/4	7x6x19 IWRC	9.2	6.9	18.0
1- 5/16	7x6x19 IWRC	10.0	7.5	20.0
1- 3/8	7x6x19 IWRC	11.0	8.2	22.0
1- 1/2	7x6x19 IWRC	13.0	9.6	26.0

* These values only apply when the D/d ratio is 10 or greater where:
D = Diameter of curvature around which the body of the sling is bent.
d = Diameter of rope.

TABLE D-6
RATED CAPACITIES FOR SINGLE LEG SLINGS 8-PART AND 6-PART BRAIDED ROPE 6x7 AND 6x19 CONSTRUCTION IMPROVED PLOW STEEL GRADE ROPE 7x7 CONSTRUCTION GALVANIZED AIRCRAFT GRADE ROPE

Component Ropes		Rated Capacities, Tons (2,000 lb)					
Diameter (inches)	Constr.	Vertical		Choker		Basket Vertical to 30 degrees*	
		8-Part	6-Part	8-Part	6-Part	8-Part	6-Part
3/32	6x7	0.42	0.32	0.32	0.24	0.74	0.55
1/8	6x7	0.76	0.57	0.57	0.42	1.3	0.98
3/16	6x7	1.7	1.3	1.3	0.94	2.9	2.2
3/32	7x7	0.51	0.39	0.38	0.29	0.89	0.67
1/8	7x7	0.95	0.71	0.71	0.53	1.6	1.2
3/16	7x7	2.1	1.5	1.5	1.2	3.6	2.7
3/16	6x19	1.7	1.3	1.3	0.98	3.0	2.2
1/4	6x19	3.1	2.3	2.3	1.7	5.3	4.0
5/16	6x19	4.8	3.6	3.6	2.7	8.3	6.2
3/8	6x19	6.8	5.1	5.1	3.8	12.0	8.9
7/16	6x19	9.3	6.9	6.9	5.2	16.0	12.0
1/2	6x19	12.0	9.0	9.0	6.7	21.0	15.0
9/16	6x19	15.0	11.0	11.0	8.5	26.0	20.0
5/8	6x19	19.0	14.0	14.0	10.0	32.0	24.0
3/4	6x19	27.0	20.0	20.0	15.0	46.0	35.0
7/8	6x19	36.0	27.0	27.0	20.0	62.0	47.0
1	6x19	47.0	35.0	35.0	26.0	81.0	61.0

* These values only apply when the D/d ratio is 20 or greater where:
D = Diameter of curvature around which the body of the sling is bent.
d = Diameter of component rope.

TABLE D-7
RATED CAPACITIES FOR 2-LEG AND 3-LEG BRIDLE SLINGS 6x19 AND 6x37 CLASSIFICATION IMPROVED PLOW STEEL GRADE ROPE WITH FIBER CORE (FC)

TABLE D-7: Part 1— 2-Leg Bridle Slings

Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Slings					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		HT	MS	HT	MS	HT	MS
1/4	6x19	0.85	0.88	0.70	0.72	0.49	0.51
5/16	6x19	1.3	1.4	1.1	1.1	0.76	0.79
3/8	6x19	1.8	1.9	1.5	1.6	1.1	1.1
7/16	6x19	2.5	2.6	2.0	2.2	1.4	1.5
1/2	6x19	3.2	3.4	2.6	2.8	1.8	2.0
9/16	6x19	4.0	4.3	3.2	3.5	2.3	2.5
5/8	6x19	4.8	5.3	4.0	4.4	2.8	3.1
3/4	6x19	6.8	7.6	5.5	6.2	3.9	4.4
7/8	6x19	8.9	10.0	7.3	8.4	5.1	5.9
1	6x19	11.0	13.0	9.4	11.0	6.7	7.7
1-1/8	6x19	14.0	16.0	12.0	13.0	8.4	9.5
1-1/4	6x37	17.0	19.0	14.0	16.0	9.8	11.0
1-3/8	6x37	20.0	23.0	17.0	19.0	12.0	13.0
1-1/2	6x37	24.0	27.0	20.0	22.0	14.0	16.0
1-5/8	6x37	28.0	32.0	23.0	26.0	16.0	18.0
1-3/4	6x37	33.0	37.0	27.0	30.0	19.0	21.0
2	6x37	43.0	48.0	35.0	39.0	25.0	28.0

HT = Hand tucked splice.
MS = Mechanical splice.

TABLE D-7: Part 2— 3-Leg Bridle Slings

Rope		Rated Capacities, Tons (2,000 lb) 3-Leg Bridle Slings					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		HT	MS	HT	MS	HT	MS
1/4	6x19	1.3	1.3	1.0	1.1	0.74	0.76
5/16	6x19	2.0	2.0	1.6	1.7	1.1	1.2
3/8	6x19	2.8	2.9	2.3	2.4	1.6	1.7
7/16	6x19	3.7	4.0	3.0	3.2	2.1	2.3
1/2	6x19	4.8	5.1	3.9	4.2	2.8	3.0
9/16	6x19	6.0	6.5	4.9	5.3	3.4	3.7
5/8	6x19	7.3	8.0	5.9	6.5	4.2	4.6
3/4	6x19	10.0	11.0	8.3	9.3	5.8	6.6
7/8	6x19	13.0	15.0	11.0	13.0	7.7	8.9
1	6x19	17.0	20.0	14.0	16.0	10.0	11.0
1-1/8	6x19	22.0	24.0	18.0	20.0	13.0	14.0
1-1/4	6x37	25.0	29.0	21.0	23.0	15.0	17.0
1-3/8	6x37	31.0	35.0	25.0	28.0	18.0	20.0
1-1/2	6x37	36.0	41.0	30.0	33.0	21.0	24.0
1-5/8	6x37	43.0	48.0	35.0	39.0	25.0	28.0
1-3/4	6x37	49.0	56.0	40.0	45.0	28.0	32.0
2	6x37	64.0	72.0	52.0	59.0	37.0	41.0

HT = Hand tucked splice.
MS = Mechanical splice.

TABLE D-8
RATED CAPACITIES FOR 2-LEG AND 3-LEG BRIDLE SLINGS 6x19 AND 6x37 CLASSIFICATION IMPROVED PLOW STEEL GRADE ROPE WITH INDEPENDENT WIRE ROPE CORE (IWRC)

TABLE D-8: Part 1— 2-Leg Bridle Sling

Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Slings					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		HT	MS	HT	MS	HT	MS
1/4	6x19	0.92	0.97	0.75	0.79	0.53	0.56
5/16	6x19	1.4	1.5	1.1	1.2	0.81	0.87
3/8	6x19	2.0	2.1	1.6	1.8	1.1	1.2
7/16	6x19	2.7	2.9	2.2	2.4	1.5	1.7
1/2	6x19	3.4	3.8	2.8	3.1	2.0	2.2
9/16	6x19	4.3	4.8	3.5	3.9	2.5	2.7
5/8	6x19	5.2	5.9	4.2	4.8	3.0	3.4
3/4	6x19	7.3	8.4	5.9	6.9	4.2	4.9
7/8	6x19	9.6	11.0	7.8	9.3	5.5	6.6
1	6x19	12.0	15.0	10.0	12.0	7.2	8.5
1-1/8	6x19	16.0	18.0	13.0	15.0	9.0	10.0
1-1/4	6x37	18.0	21.0	15.0	17.0	10.0	12.0
1-3/8	6x37	22.0	25.0	18.0	21.0	13.0	15.0
1-1/2	6x37	26.0	30.0	21.0	25.0	15.0	17.0
1-5/8	6x37	31.0	35.0	25.0	29.0	18.0	20.0
1-3/4	6x37	35.0	41.0	29.0	33.0	20.0	24.0
2	6x37	46.0	53.0	37.0	43.0	26.0	30.0

HT = Hand tucked splice.
MS = Mechanical splice.

TABLE D-8: Part 2— 3-Leg Bridle Slings

Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Sling					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		HT	MS	HT	MS	HT	MS
1/4	6x19	1.4	1.4	1.1	1.2	0.79	0.84
5/16	6x19	2.1	2.3	1.7	1.8	1.2	1.3
3/8	6x19	3.0	3.2	2.4	2.6	1.7	1.9
7/16	6x19	4.0	4.4	3.3	3.6	2.3	2.5
1/2	6x19	5.1	5.7	4.2	4.6	3.0	3.3
9/16	6x19	6.4	7.1	5.2	5.8	3.7	4.1
5/8	6x19	7.8	8.8	6.4	7.2	4.5	5.1
3/4	6x19	11.0	13.0	8.9	10.0	6.3	7.3
7/8	6x19	14.0	17.0	12.0	14.0	8.3	9.9
1	6x19	19.0	22.0	15.0	18.0	11.0	13.0
1-1/8	6x19	23.0	27.0	19.0	22.0	13.0	16.0
1-1/4	6x37	27.0	32.0	22.0	26.0	16.0	18.0
1-3/8	6x37	33.0	38.0	27.0	31.0	19.0	22.0
1-1/2	6x37	39.0	45.0	32.0	37.0	23.0	26.0

Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Sling					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		HT	MS	HT	MS	HT	MS
1-5/8	6x37	46.0	53.0	38.0	43.0	27.0	31.0
1-3/4	6x37	53.0	61.0	43.0	50.0	31.0	35.0
2	6x37	68.0	79.0	56.0	65.0	40.0	46.0

HT = Hand tucked splice.

MS = Mechanical splice.

TABLE D-9

RATED CAPACITIES FOR 2-LEG AND 3-LEG BRIDLE SLINGS CABLE LAID ROPE - MECHANICAL SPLICE ONLY 7x7x7 AND 7x7x19 CONSTRUCTIONS GALVANIZED AIRCRAFT GRADE ROPE 7x6x19 IWRC CONSTRUCTION IMPROVED PLOW STEEL GRADE ROPE

TABLE D-9: Part 1— 2-Leg Bridle Slings

Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Sling		
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree	45 degree Angle	Vert 60 degree Horz 30 degree
1/4	7x7x7	0.87	0.71	0.50
3/8	7x7x7	1.9	1.5	1.1
1/2	7x7x7	3.2	2.6	1.8
5/8	7x7x7	4.8	3.9	2.8
3/4	7x7x7	6.6	5.4	3.8
5/8	7x7x19	5.0	4.1	2.9
3/4	7x7x19	7.0	5.7	4.1
7/8	7x7x19	9.3	7.6	5.4
1	7x7x19	12.0	9.7	6.9
1-1/8	7x7x19	14.0	12.0	8.2
1-1/4	7x7x19	17.0	14.0	9.9
3/4	7x6x19 IWRC	6.6	5.4	3.8
7/8	7x6x19 IWRC	8.7	7.1	5.0
1	7x6x19 IWRC	11.0	9.0	6.4
1-1/8	7x6x19 IWRC	13.0	11.0	7.7
1-1/4	7x6x19 IWRC	16.0	13.0	9.2
1-5/16	7x6x19 IWRC	17.0	14.0	10.0
1-3/8	7x6x19 IWRC	19.0	15.0	11.0
1-1/2	7x6x19 IWRC	22.0	18.0	13.0

TABLE D-9: Part 2— 3-Leg Bridle Slings

Rope		Rated Capacities, Tons (2,000 lb) 3-Leg Bridle Sling		
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree	45 degree Angle	Vert 60 degree Horz 30 degree
1/4	7x7x7	1.3	1.1	0.75
3/8	7x7x7	2.8	2.3	1.6
1/2	7x7x7	4.8	3.9	2.8
5/8	7x7x7	7.2	5.9	4.2
3/4	7x7x7	9.9	8.1	5.7
5/8	7x7x19	7.5	6.1	4.3
3/4	7x7x19	10.0	8.6	6.1
7/8	7x7x19	14.0	11.0	8.1
1	7x7x19	18.0	14.0	10.0
1-1/8	7x7x19	21.0	17.0	12.0
1-1/4	7x7x19	26.0	21.0	15.0
3/4	7x6x19 IWRC	9.9	8.0	5.7
7/8	7x6x19 IWRC	13.0	11.0	7.5
1	7x6x19 IWRC	17.0	13.0	9.6
1-1/8	7x6x19 IWRC	20.0	16.0	11.0
1-1/4	7x6x19 IWRC	24.0	20.0	14.0
1-5/16	7x6x19 IWRC	26.0	21.0	15.0
1-3/8	7x6x19 IWRC	28.0	23.0	16.0
1-1/2	7x6x19 IWRC	33.0	27.0	19.0

TABLE D-10

RATED CAPACITIES FOR 2-LEG AND 3-LEG BRIDLE SLINGS 8-PART AND 6-PART BRAIDED ROPE 6x7 AND 6x19 CONSTRUCTION IMPROVED PLOW STEEL GRADE ROPE 7x7 CONSTRUCTION GALVANIZED AIRCRAFT GRADE ROPE

TABLE D-10: Part 1— 2-Leg Bridle Slings

Component Rope		Rated Capacities, Tons (2,000 lb) 2-Leg Bridle Slings					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		8-Part	6-Part	8-Part	6-Part	8-Part	6-Part
3/32	6x7	0.74	0.55	0.60	0.45	0.42	0.32
1/8	6x7	1.3	0.98	1.1	0.80	0.76	0.57
3/16	6x7	2.9	2.2	2.4	1.8	1.7	1.3
3/32	7x7	0.89	0.67	0.72	0.55	0.51	0.39
1/8	7x7	1.6	1.2	1.3	1.0	0.95	0.71
3/16	7x7	3.6	2.7	2.9	2.2	2.1	1.5
3/16	6x19	3.0	2.2	2.4	1.8	1.7	1.3
1/4	6x19	5.3	4.0	4.3	3.2	3.1	2.3
5/16	6x19	8.3	6.2	6.7	5.0	4.8	3.6
3/8	6x19	12.0	8.9	9.7	7.2	6.8	5.1
7/16	6x19	16.0	12.0	13.0	9.8	9.3	6.9
1/2	6x19	21.0	15.0	17.0	13.0	12.0	9.0
9/16	6x19	26.0	20.0	21.0	16.0	15.0	11.0
5/8	6x19	32.0	24.0	26.0	20.0	19.0	14.0
3/4	6x19	46.0	35.0	38.0	28.0	27.0	20.0
7/8	6x19	62.0	47.0	51.0	38.0	36.0	27.0
1	6x19	81.0	61.0	66.0	50.0	47.0	35.0

TABLE D-10: Part 2— 3-Leg Bridle Slings

Component Rope		Rated Capacities, Tons (2,000 lb) 3-Leg Bridle Slings					
Dia. (Inches)	Constr.	Vert 30 degree Horz 60 degree		45 degree Angle		Vert 60 degree Horz 30 degree	
		8-Part	6-Part	8-Part	6-Part	8-Part	6-Part
3/32	6x7	1.1	0.83	0.90	0.68	0.64	0.48
1/8	6x7	2.0	1.5	1.6	1.2	1.1	0.85
3/16	6x7	4.4	3.3	3.6	2.7	2.5	1.9
3/32	7x7	1.3	1.0	1.1	0.82	0.77	0.58
1/8	7x7	2.5	1.8	2.0	1.5	1.4	1.1
3/16	7x7	5.4	4.0	4.4	3.3	3.1	2.3
3/16	6x19	4.5	3.4	3.7	2.8	2.6	1.9
1/4	6x19	8.0	6.0	6.5	4.9	4.6	3.4
5/16	6x19	12.0	9.3	10.0	7.6	7.1	5.4
3/8	6x19	18.0	13.0	14.0	11.0	10.0	7.7
7/16	6x19	24.0	18.0	20.0	15.0	14.0	10.0
1/2	6x19	31.0	23.0	25.0	19.0	18.0	13.0
9/16	6x19	39.0	29.0	32.0	24.0	23.0	17.0
5/8	6x19	48.0	36.0	40.0	30.0	28.0	21.0
3/4	6x19	69.0	52.0	56.0	42.0	40.0	30.0
7/8	6x19	94.0	70.0	76.0	57.0	54.0	40.0
1	6x19	122.0	91.0	99.0	74.0	70.0	53.0

TABLE D-11

RATED CAPACITIES FOR STRAND LAID GROMMET - HAND TUCKED IMPROVED PLOW STEEL GRADE ROPE

ROPE BODY		RATED CAPACITIES, TONS (2,000 lb)		
				
Dia. (Inches)	Constr.	Vertical	Choker	Vertical Basket*
1/4	7x19	0.85	0.64	1.7
5/16	7x19	1.3	1.0	2.6
3/8	7x19	1.9	1.4	3.8
7/16	7x19	2.6	1.9	5.2

1/2	7x19	3.3	2.5	6.7
9/16	7x19	4.2	3.1	8.4
5/8	7x19	5.2	3.9	10.00
3/4	7x19	7.4	5.6	15.0
7/8	7x19	10.0	7.5	20.0
1	7x19	13.0	9.7	26.0
1-1/8	7x19	16.0	12.0	32.0
1-1/4	7x37	18.0	14.0	37.0
1-3/8	7x37	22.0	16.0	44.0
1-1/2	7x37	26.0	19.0	52.0

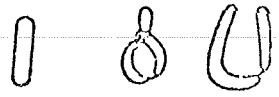
* These values only apply when the D/d ratio is 5 or greater where:
D= Diameter of curvature around which rope is bent.
d = Diameter of rope body.

TABLE D-12
RATED CAPACITIES FOR CABLE LAID GROMMET - HAND TUCKED 7x6x7 AND 7x6x19 CONSTRUCTIONS IMPROVED PLOW STEEL GRADE ROPE 7x7x7 CONSTRUCTION GALVANIZED AIRCRAFT GRADE ROPE

CABLE BODY		RATED CAPACITIES, TONS (2,000 lb)		
				
Dia. (Inches)	Constr.	Vertical	Choker	Vertical Basket*
3/8	7x6x7	1.3	0.95	2.5
9/16	7x6x7	2.8	2.1	5.6
5/8	7x6x7	3.8	2.8	7.6
3/8	7x7x7	1.6	1.2	3.2
9/16	7x7x7	3.5	2.6	6.9
5/8	7x7x7	4.5	3.4	9.0
5/8	7x6x19	3.9	3.0	7.9
3/4	7x6x19	5.1	3.8	10.0
15/16	7x6x19	7.9	5.9	16.0
1-1/8	7x6x19	11.0	8.4	22.0
1-5/16	7x6x19	15.0	11.0	30.0
1-1/2	7x6x19	19.0	14.0	39.0
1-11/16	7x6x19	24.0	18.0	49.0
1-7/8	7x6x19	30.0	22.0	60.0
2-1/4	7x6x19	42.0	31.0	84.0
2-5/8	7x6x19	56.0	42.0	112.0

* These values only apply when the D/d ratio is 5 or greater where:
D= Diameter of curvature around which cable body is bent.
d = Diameter of cable body.

TABLE D-13
RATED CAPACITIES FOR STRAND LAID ENDLESS SLINGS - MECHANICAL JOINT IMPROVED PLOW STEEL GRADE ROPE

ROPE BODY		RATED CAPACITIES, TONS (2,000 lb)		
				
Dia. (Inches)	Constr.	Vertical	Choker	Vertical Basket*
1/4	6x19 IWRC	0.92	0.69	1.8
3/8	6x19 IWRC	2.0	1.5	4.1
1/2	6x19 IWRC	3.6	2.7	7.2
5/8	6x19 IWRC	5.6	4.2	11.0
3/4	6x19 IWRC	8.0	6.0	16.0
7/8	6x19 IWRC	11.0	8.1	21.0
1	6x19 IWRC	14.0	10.0	28.0
1-1/8	6x19 IWRC	18.0	13.0	35.0
1-1/4	6x37 IWRC	21.0	15.0	41.0
1-3/8	6x37 IWRC	25.0	19.0	50.0
1-1/2	6x37 IWRC	29.0	22.0	59.0

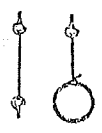
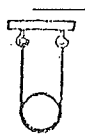
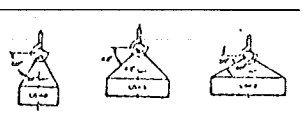
* These values only apply when the D/d ratio is 5 or greater where:
D= Diameter of curvature around which rope is bent.
d = Diameter of rope body.

TABLE D-14
RATED CAPACITIES FOR CABLE LAID ENDLESS SLINGS - MECHANICAL JOINT 7x7x7 AND 7x7x19 CONSTRUCTIONS GALVANIZED AIRCRAFT GRADE ROPE 7x6x19 IWRC CONSTRUCTION IMPROVED PLOW STEEL GRADE ROPE

CABLE BODY		RATED CAPACITIES, TONS (2,000 lb)		
				
Dia. (Inches)	Constr.	Vertical	Choker	Vertical Basket*
1/4	7x7x7	0.83	0.62	1.6
3/8	7x7x7	1.8	1.3	3.5
1/2	7x7x7	3.0	2.3	6.1
5/8	7x7x7	4.5	3.4	9.1
3/4	7x7x7	6.3	4.7	12.0
5/8	7x7x19	4.7	3.5	9.5
3/4	7x7x19	6.7	5.0	13.0
7/8	7x7x19	8.9	6.6	18.0
1	7x7x19	11.0	8.5	22.0
1-1/8	7x7x19	14.0	10.0	28.0
1-1/4	7x7x19	17.0	12.0	33.0
3/4	7x6x19 IWRC	6.2	4.7	12.0
7/8	7x6x19 IWRC	8.3	6.2	16.0
1	7x6x19 IWRC	10.0	7.9	21.0
1-1/8	7x6x19 IWRC	13.0	9.7	26.0
1-1/4	7x6x19 IWRC	16.0	12.0	31.0
1-3/8	7x6x19 IWRC	18.0	14.0	37.0
1-1/2	7x6x19 IWRC	22.0	16.0	43.0

* These values only apply when the D/d value is 5 or greater where:
D= Diameter of curvature around which cable body is bent.
d = Diameter of cable body.

TABLE D-15
RATED CAPACITIES
CARBON STEEL AND STAINLESS STEEL METAL MESH SLINGS

SLING WIDTH IN INCHES	 VERTICAL OR CHOKER	 VERTICAL BASKET	EFFECT OF ANGLE ON RATED CAPACITIES IN BASKET HITCH  30 deg Vertical 60 deg Horizontal	45 deg Vertical 45 deg Horizontal	60 deg Vertical 30 deg Horizontal
Heavy Duty-10 Ga 35 Spirals/Ft of sling width					
2	1,500	3,000	2,600	2,100	1,500
3	2,700	5,400	4,700	3,800	2,700

4	4,000	8,000	6,900	5,600	4,000
6	6,000	12,000	10,400	8,400	6,000
8	8,000	16,000	13,800	11,300	8,000
10	10,000	20,000	17,000	14,100	10,000
12	12,000	24,000	20,700	16,900	12,000
14	14,000	28,000	24,200	19,700	14,000
16	16,000	32,000	27,700	22,600	16,000
18	18,000	36,000	31,100	25,400	18,000
20	20,000	40,000	34,600	28,200	20,000
Medium Duty-12 Ga 43 Spirals/Ft of sling width					
2	1,350	2,700	2,300	1,900	1,400
3	2,000	4,000	3,500	2,800	2,000
4	2,700	5,400	4,700	3,800	2,700
6	4,500	9,000	7,800	6,400	4,500
8	6,000	12,000	10,400	8,500	6,000
10	7,500	15,000	13,000	10,600	7,500
12	9,000	18,000	15,600	12,700	9,000
14	10,500	21,000	18,200	14,800	10,500
16	12,000	24,000	20,800	17,000	12,000
18	13,500	27,000	23,400	19,100	13,500
20	15,000	30,000	26,000	21,200	15,000
Light Duty-14 Ga 59 Spirals/Ft of sling width					
2	900	1,800	1,600	1,300	900
3	1,400	2,800	2,400	2,000	1,400
4	2,000	4,000	3,500	2,800	2,000
6	3,000	6,000	5,200	4,200	3,000
8	4,000	8,000	6,900	5,700	4,000
10	5,000	10,000	8,600	7,100	5,000
12	6,000	12,000	10,400	8,500	6,000
14	7,000	14,000	12,100	9,900	7,000
16	8,000	16,000	13,900	11,300	8,000
18	9,000	18,000	15,600	12,700	9,000
20	10,000	20,000	17,300	14,100	10,000

TABLE D-16: Part 2—Endless Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	ENDLESS SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	7.5	865	430	1,730	1,500	1,220	865
9/16	10.4	1,120	560	2,230	1,930	1,580	1,120
5/8	13.3	1,420	710	2,840	2,460	2,010	1,420
3/4	16.7	1,750	875	3,490	3,020	2,470	1,750
13/16	19.5	2,110	1,050	4,210	3,650	2,980	2,110
7/8	22.5	2,500	1,250	5,000	4,330	3,540	2,500
1"	27.0	2,920	1,460	5,830	5,050	4,120	2,920
1 1/16	31.3	3,400	1,700	6,800	5,890	4,810	3,400
1 1/8	36.0	3,890	1,940	7,780	6,730	5,500	3,890
1 1/4	41.7	4,370	2,190	8,750	7,580	6,190	4,370
1 5/16	47.9	4,860	2,430	9,720	8,420	6,870	4,860
1 1/2	59.9	5,990	3,000	12,000	10,400	8,480	5,990
1 5/8	74.6	7,290	3,650	14,600	12,600	10,300	7,290
1 3/4	89.3	8,590	4,290	17,200	14,900	12,100	8,590
2"	107.5	10,000	5,020	20,100	17,400	14,200	10,000
2 1/8	125.0	11,700	5,830	23,300	20,200	16,500	11,700
2 1/4	146.0	13,300	6,640	26,600	23,000	18,800	13,300
2 1/2	166.7	15,100	7,530	30,100	26,100	21,300	15,100
2 5/8	190.8	16,800	8,420	33,700	29,200	23,800	16,800

See Figures D-4 and D-5 for sling configuration description.

TABLE D-16
MANILA ROPE SLINGS

TABLE D-16: Part 1—Eye and Eye Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	EYE & EYE SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	7.5	480	240	960	830	680	480
9/16	10.4	620	310	1,240	1,070	875	620
5/8	13.3	790	395	1,580	1,370	1,120	790
3/4	16.7	970	485	1,940	1,680	1,370	970
13/16	19.5	1,170	585	2,340	2,030	1,650	1,170
7/8	22.5	1,390	695	2,780	2,410	1,970	1,390
1"	27.0	1,620	810	3,240	2,810	2,290	1,620
1 1/16	31.3	1,890	945	3,780	3,270	2,670	1,890
1 1/8	36.0	2,160	1,080	4,320	3,740	3,050	2,160
1 1/4	41.7	2,430	1,220	4,860	4,210	3,440	2,430
1 5/16	47.9	2,700	1,350	5,400	4,680	3,820	2,700
1 1/2	59.9	3,330	1,670	6,660	5,770	4,710	3,330
1 5/8	74.6	4,050	2,030	8,100	7,010	5,730	4,050
1 3/4	89.3	4,770	2,390	9,540	8,260	6,740	4,770
2"	107.5	5,580	2,790	11,200	9,660	7,890	5,580
2 1/8	125.0	6,480	3,240	13,000	11,200	9,160	6,480
2 1/4	146.0	7,380	3,690	14,800	12,800	10,400	7,380
2 1/2	166.7	8,370	4,190	16,700	14,500	11,800	8,370
2 5/8	190.8	9,360	4,680	18,700	16,200	13,200	9,360

See Figures D-4 and D-5 for sling configuration description.

TABLE D-17
NYLON ROPE SLINGS

TABLE D-17: Part 1—Eye and Eye Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	EYE & EYE SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	6.5	635	320	1,270	1,100	900	635
9/16	8.3	790	395	1,580	1,370	1,120	790
5/8	10.5	1,030	515	2,060	1,780	1,460	1,030
3/4	14.5	1,410	705	2,820	2,440	1,990	1,410
13/16	17.0	1,680	840	3,360	2,910	2,380	1,680
7/8	20.0	1,980	990	3,960	3,430	2,800	1,980
1"	26.0	2,480	1,240	4,960	4,300	3,510	2,480
1 1/16	29.0	2,850	1,430	5,700	4,940	4,030	2,850
1 1/8	34.0	3,270	1,640	6,540	5,660	4,620	3,270
1 1/4	40.0	3,710	1,860	7,420	6,430	5,250	3,710
1 5/16	45.0	4,260	2,130	8,520	7,380	6,020	4,260
1 1/2	55.0	5,250	2,630	10,500	9,090	7,420	5,250
1 5/8	68.0	6,440	3,220	12,900	11,200	9,110	6,440
1 3/4	83.0	7,720	3,860	15,400	13,400	10,900	7,720
2"	95.0	9,110	4,560	18,200	15,800	12,900	9,110
2 1/8	109.0	10,500	5,250	21,000	18,200	14,800	10,500
2 1/4	129.0	12,400	6,200	24,800	21,500	17,500	12,400
2 1/2	149.0	13,900	6,950	27,800	24,100	19,700	13,900
2 5/8	168.0	16,000	8,000	32,000	27,700	22,600	16,000

See Figures D-4 and D-5 for sling configuration description.

TABLE D-17: Part 2—Endless Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	ENDLESS SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	6.5	1,140	570	2,290	1,980	1,620	1,140
9/16	8.3	1,420	710	2,840	2,460	2,010	1,420
5/8	10.5	1,850	925	3,710	3,210	2,620	1,850
3/4	14.5	2,540	1,270	5,080	4,400	3,590	2,540
13/16	17.0	3,020	1,510	6,050	5,240	4,280	3,020
7/8	20.0	3,560	1,780	7,130	6,170	5,040	3,560
1"	26.0	4,460	2,230	8,930	7,730	6,310	4,460
1 1/16	29.0	5,130	2,570	10,300	8,890	7,260	5,130
1 1/8	34.0	5,890	2,940	11,800	10,200	8,330	5,890
1 1/4	40.0	6,680	3,340	13,400	11,600	9,450	6,680
1 5/16	45.0	7,670	3,830	15,300	13,300	10,800	7,670
1 1/2	55.0	9,450	4,730	18,900	16,400	13,400	9,450
1 5/8	68.0	11,600	5,800	23,200	20,100	16,400	11,600
1 3/4	83.0	13,900	6,950	27,800	24,100	19,700	13,900
2"	95.0	16,400	8,200	32,800	28,400	23,200	16,400
2 1/8	109.0	18,900	9,450	37,800	32,700	26,700	18,900
2 1/4	129.0	22,300	11,200	44,600	38,700	31,600	22,300
2 1/2	149.0	25,000	12,500	50,000	43,300	35,400	25,000
2 5/8	168.0	28,800	14,400	57,600	49,900	40,700	28,800

See Figures D-4 and D-5 for sling configuration description.

TABLE D-18
POLYESTER ROPE SLINGS

TABLE D-18: Part 1—Eye and Eye Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	EYE & EYE SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	8.0	635	320	1,270	1,100	900	635
9/16	10.2	790	395	1,580	1,370	1,120	790
5/8	13.0	990	495	1,980	1,710	1,400	990
3/4	17.5	1,240	620	2,480	2,150	1,750	1,240
13/16	21.0	1,540	770	3,080	2,670	2,180	1,540
7/8	25.0	1,780	890	3,560	3,080	2,520	1,780
1"	30.5	2,180	1,090	4,360	3,780	3,080	2,180
1 1/16	34.5	2,530	1,270	5,060	4,380	3,580	2,530
1 1/8	40.0	2,920	1,460	5,840	5,060	4,130	2,920
1 1/4	46.3	3,290	1,650	6,580	5,700	4,650	3,290
1 5/16	52.5	3,710	1,860	7,420	6,430	5,250	3,710
1 1/2	66.8	4,630	2,320	9,260	8,020	6,550	4,630
1 5/8	82.0	5,640	2,820	11,300	9,770	7,980	5,640
1 3/4	98.0	6,710	3,360	13,400	11,600	9,490	6,710
2"	118.0	7,920	3,960	15,800	13,700	11,200	7,920
2 1/8	135.0	9,110	4,460	18,200	15,800	12,900	9,110
2 1/4	157.0	10,600	5,300	21,200	18,400	15,000	10,600
2 1/2	181.0	12,100	6,050	24,200	21,000	17,100	12,100
2 5/8	205.0	13,600	6,800	27,200	23,600	19,200	13,600

See Figures D-4 and D-5 for sling configuration description.

TABLE D-18: Part 2—Endless Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	ENDLESS SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	8.0	1,140	570	2,290	1,980	1,620	1,140
9/16	10.2	1,420	710	2,840	2,460	2,010	1,420
5/8	13.0	1,780	890	3,570	3,090	2,520	1,780
3/4	17.5	2,230	1,120	4,470	3,870	3,160	2,230
13/16	21.0	2,770	1,390	5,540	4,800	3,920	2,770
7/8	25.0	3,200	1,600	6,410	5,550	4,530	3,200
1"	30.5	3,920	1,960	7,850	6,800	5,550	3,920
1 1/16	34.5	4,550	2,280	9,110	7,990	6,440	4,550
1 1/8	40.0	5,260	2,630	10,500	9,100	7,440	5,260
1 1/4	46.3	5,920	2,960	11,800	10,300	8,380	5,920
1 5/16	52.5	6,680	3,340	13,400	11,600	9,450	6,680
1 1/2	66.8	8,330	4,170	16,700	14,400	11,800	8,330
1 5/8	82.0	10,200	5,080	20,300	17,600	14,400	10,200
1 3/4	98.0	12,100	6,040	24,200	20,900	17,100	12,100
2"	118.0	14,300	7,130	28,500	24,700	20,200	14,300
2 1/8	135.0	16,400	8,200	32,800	28,400	23,200	16,400
2 1/4	157.0	19,100	9,540	38,200	33,100	27,000	19,100
2 1/2	181.0	21,800	10,900	43,600	37,700	30,800	21,800
2 5/8	205.0	24,500	12,200	49,000	42,400	34,600	24,500

See Figures D-4 and D-5 for sling configuration description.

TABLE D-19
POLYPROPYLENE ROPE SLINGS

TABLE D-19: Part 1—Eye and Eye Sling

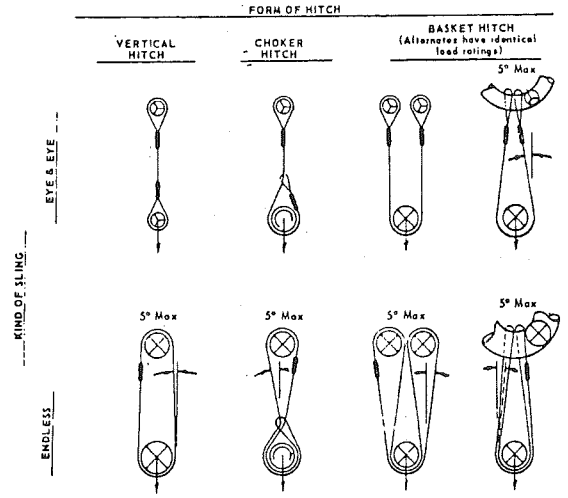
Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	EYE & EYE SLING					
				BASKET HITCH			
				Angle of Rope to Horizontal			
				90°	60°	45°	30°
				Angle of Rope to Vertical			
		Vertical Hitch	Choker Hitch	0°	30°	45°	60°
1/2	4.7	645	325	1,290	1,120	910	645
9/16	6.1	780	390	1,560	1,350	1,100	780
5/8	7.5	950	475	1,900	1,650	1,340	950
3/4	10.7	1,300	650	2,600	2,250	1,840	1,300
13/16	12.7	1,520	760	3,040	2,630	2,150	1,520
7/8	15.0	1,760	880	3,520	3,050	2,490	1,760
1"	18.0	2,140	1,070	4,280	3,700	3,030	2,140
1 1/16	20.4	2,450	1,230	4,900	4,240	3,460	2,450
1 1/8	23.7	2,800	1,400	5,600	4,850	3,960	2,800
1 1/4	27.0	3,210	1,610	6,420	5,560	4,540	3,210
1 5/16	30.5	3,600	1,800	7,200	6,240	5,090	3,600
1 1/2	38.5	4,540	2,270	9,080	7,860	6,420	4,540
1 5/8	47.5	5,510	2,760	11,000	9,540	7,790	5,510
1 3/4	57.0	6,580	3,290	13,200	11,400	9,300	6,580
2"	69.0	7,960	3,980	15,900	13,800	11,300	7,960
2 1/8	80.0	9,330	4,670	18,700	16,200	13,200	9,330
2 1/4	92.0	10,600	5,300	21,200	18,400	15,000	10,600
2 1/2	107.0	12,200	6,100	24,400	21,100	17,300	12,200
2 5/8	120.0	13,800	6,900	27,600	23,900	19,600	13,800

See Figures D-4 and D-5 for sling configuration description.

TABLE D-19: Part 2—Endless Sling

Rope Diameter Nominal in Inches	Nominal Weight per 100 ft. in Pounds	ENDLESS SLING Vertical Hitch	Choker Hitch	BASKET HITCH Angle of Rope to Horizontal 90°	60°	45°	30°
				Angle of Rope to Vertical 0°	30°	45°	60°
1/2	4.7	1,160	580	2,320	2,010	1,640	1,160
9/16	6.1	1,400	700	2,810	2,430	1,990	1,400
5/8	7.5	1,710	855	3,420	2,960	2,420	1,710
3/4	10.7	2,340	1,170	4,680	4,050	3,310	2,340
13/16	12.7	2,740	1,370	5,470	4,740	3,870	2,740
7/8	15.0	3,170	1,580	6,340	5,490	4,480	3,170
1"	18.0	3,850	1,930	7,700	6,670	5,450	3,860
1 1/16	20.4	4,410	2,210	8,820	7,640	6,240	4,410
1 1/8	23.7	5,040	2,520	10,100	8,730	7,130	5,040
1 1/4	27.0	5,780	2,890	11,600	10,000	8,170	5,780
1 5/16	30.5	6,480	3,240	13,000	11,200	9,170	6,480
1 1/2	38.5	8,170	4,090	16,300	14,200	11,600	8,170
1 5/8	47.5	9,920	4,960	19,800	17,200	14,000	9,920
1 3/4	57.0	11,800	5,920	23,700	20,500	16,800	11,800
2"	69.0	14,300	7,160	28,700	24,800	20,300	14,300
2 1/8	80.0	16,800	8,400	33,600	29,100	23,800	16,800
2 1/4	92.0	19,100	9,540	38,200	33,100	27,000	19,100
2 1/2	107.0	22,000	11,000	43,900	38,000	31,100	22,000
2 5/8	120.0	24,800	12,400	49,700	43,000	35,100	24,800

See Figures D-4 and D-5 for sling configuration description.



Notes: Angles of 5° or less from the vertical may be considered vertical angles.
For slings with legs more than 5° off vertical, the actual angle as shown in Figure D-5 must be considered.

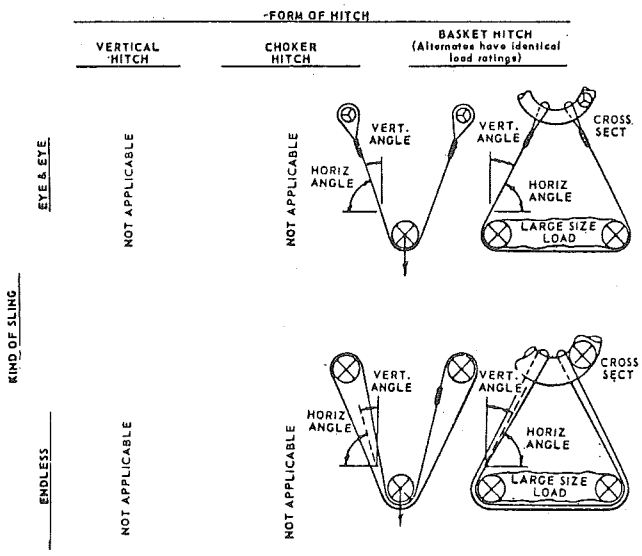
EXPLANATION OF SYMBOLS: Minimum diameter of curvature

(illus.) Represents a contact surface which shall have a diameter of curvature at least double the diameter of the rope.

(illus.) Represents a contact surface which shall have a diameter of curvature at least 8 times the diameter of the rope.

(illus.) Represents a load in a choker hitch and illustration the rotary force on the load and/or the slippage of the rope in contact with the load. Diameter of curvature of load surface shall be at least double the diameter of the rope.

Figure D-4
Basic Sling Configurations with Vertical Legs



Notes: For vertical angles of 5° or less, refer to Figure D-4 "basic sling configuration with vertical legs."

See Figure D-4 for explanation of symbols.

Figure D-5
Sling Configurations with Angled Legs

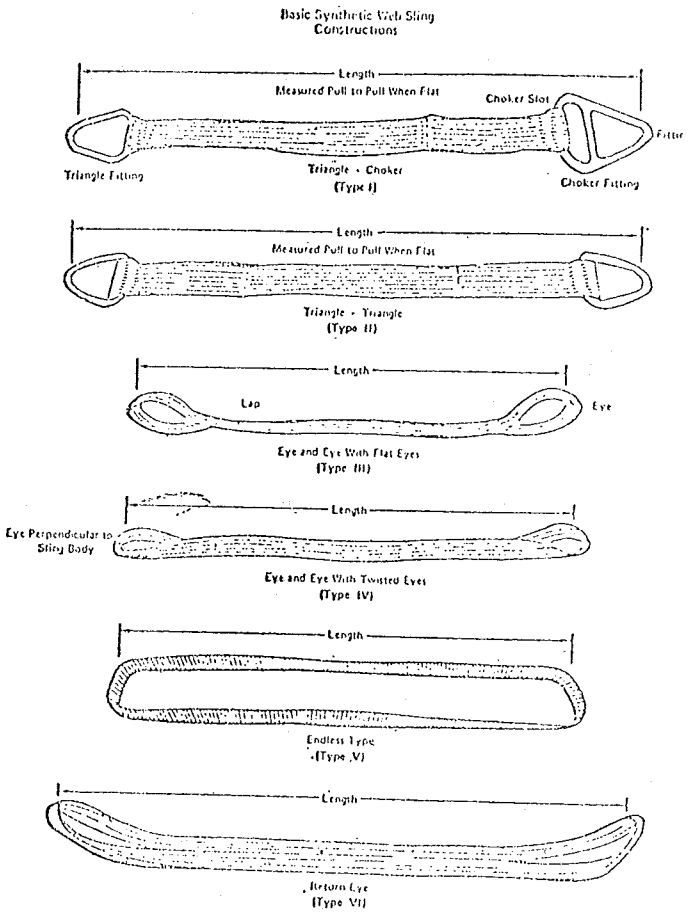


Figure D-6
Basic Synthetic Web Sling Constructions

TABLE D-20
RATED CAPACITY IN POUNDS SYNTHETIC WEB SLINGS 1,000 LBS. PER INCH OF WIDTH SINGLE PLY
(TABLE D-20: Part 1—Types I, II, III, and IV)

Sling Body Width, Inches	Triangle - Choker Slings, Type I Triangle - Triangle Slings, Type II Eye & Eye with Flat Eye Slings, Type III Eye & Eye with Twisted Eye Slings, Type IV					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,000	750	2,000	1,700	1,400	1,000
2	2,000	1,500	4,000	3,500	2,800	2,000
3	3,000	2,200	6,000	5,200	4,200	3,000
4	4,000	3,000	8,000	6,900	5,700	4,000
5	5,000	3,700	10,000	8,700	7,100	5,000
6	6,000	4,500	12,000	10,400	8,500	6,000

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

(TABLE D-20: Part 2—Type V)

Sling Body Width, Inches	Endless Slings, Type V					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,600	1,300	3,200	2,800	2,300	1,600
2	3,200	2,600	6,400	5,500	4,500	3,200
3	4,800	3,800	9,600	8,300	6,800	4,800
4	6,400	5,100	12,800	11,100	9,000	6,400
5	8,000	6,400	16,000	13,900	11,300	8,000
6	9,600	7,700	19,200	16,600	13,600	9,600

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

(TABLE D-20: Part 3—Type VI)

Sling Body Width, Inches	Return Eye Slings, Type VI					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	800	650	1,600	1,400	1,150	800
2	1,600	1,300	3,200	2,800	2,300	1,600
3	2,400	1,950	4,800	4,150	3,400	2,400
4	3,200	2,600	6,400	5,500	4,500	3,200
5	4,000	3,250	8,000	6,900	5,650	4,000
6	4,800	3,800	9,600	8,300	6,800	4,800

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

TABLE D-21
RATED CAPACITY IN POUNDS SYNTHETIC WEB SLINGS 1,200 LBS. PER INCH OF WIDTH SINGLE PLY
(TABLE D-21: Part 1—Types I, II, III, and IV)

Sling Body Width, Inches	Triangle - Choker Slings, Type I Triangle - Triangle Slings, Type II Eye & Eye with Flat Eye Slings, Type III Eye & Eye with Twisted Eye Slings, Type IV					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,200	900	2,400	2,100	1,700	1,200
2	2,400	1,800	4,800	4,200	3,400	2,400
3	3,600	2,700	7,200	6,200	5,100	3,600
4	4,800	3,600	9,600	8,300	6,800	4,800
5	6,000	4,500	12,000	10,400	8,500	6,000
6	7,200	5,400	14,400	12,500	10,200	7,200

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

(TABLE D-21: Part 2—Type V)

Sling Body Width, Inches	Endless Slings, Type V					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,900	1,500	3,800	3,300	2,700	1,900
2	3,800	3,000	7,600	6,600	5,400	3,800
3	5,800	4,600	11,600	10,000	8,200	5,800
4	7,700	6,200	15,400	13,300	10,900	7,700
5	9,600	7,700	19,200	16,600	13,600	9,600
6	11,500	9,200	23,000	19,900	16,300	11,500

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

(TABLE D-21: Part 3—Type VI)

Sling Body Width, Inches	Return Eye Slings, Type VI					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	950	750	1,900	1,650	1,350	950
2	1,900	1,500	3,800	3,300	2,700	1,900
3	2,850	2,250	5,700	4,950	4,050	2,850
4	3,800	3,000	7,600	6,600	5,400	3,800
5	4,750	3,750	9,500	8,250	6,750	4,750
6	5,800	4,600	11,600	10,000	8,200	5,800

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

TABLE D-22
RATED CAPACITY IN POUNDS SYNTHETIC WEB SLINGS 1,600 LBS. PER INCH OF WIDTH SINGLE PLY
(TABLE D-22: Part 1—Types I, II, III, and IV)

Sling Body Width, Inches	Triangle - Choker Slings, Type I Triangle - Triangle Slings, Type II Eye & Eye with Flat Eye Slings, Type III Eye & Eye with Twisted Eye Slings, Type IV					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,600	1,200	3,200	2,800	2,300	1,600
2	3,200	2,400	6,400	5,500	4,500	3,200
3	4,800	3,600	9,600	8,300	6,800	4,800
4	6,400	4,800	12,800	11,100	9,000	6,400
5	8,000	6,000	16,000	13,800	11,300	8,000
6	9,600	7,200	19,200	16,600	13,600	9,600

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

Sling Body Width, Inches	Endless Slings, Type V					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	2,600	2,100	5,200	4,500	3,700	2,600
2	5,100	4,100	10,200	8,800	7,200	5,100
3	7,700	6,200	15,400	13,300	10,900	7,700
4	10,100	8,200	20,400	17,700	14,400	10,200
5	12,800	10,200	25,600	22,200	18,100	12,800
6	15,400	12,300	30,800	26,700	21,800	15,400

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

(TABLE D-22: Part 3—Type VI)

Sling Body Width, Inches	Return Eye Slings, Type VI					
	Vert.	Choker	Vert. Basket	30° Basket	45° Basket	60° Basket
1	1,050	1,050	2,600	2,250	1,850	1,300
2	2,600	2,100	5,200	4,500	3,700	2,600
3	3,900	3,150	7,800	6,750	5,500	3,900
4	5,100	4,100	10,200	8,800	7,200	5,100
5	6,400	5,150	12,800	11,050	9,050	6,400
6	7,700	6,200	15,400	13,300	10,900	7,700

Notes: 1. All angles shown are measured from the vertical.
2. Capacities for intermediate widths not shown may be obtained by interpolation.

[Order 76-6, § 296-24-29431, filed 3/1/76.]

PART E
HAZARDOUS MATERIALS, FLAMMABLE AND COMBUSTIBLE LIQUIDS, SPRAY FINISHING, DIP TANKS

Hazardous materials

WAC 296-24-295 Compressed gases (general requirements).

[Order 73-5, § 296-24-295, filed 5/9/73 and Order 73-4, § 296-24-295, filed 5/7/73.]

WAC 296-24-29501 Inspection of compressed gas cylinders. Each employer shall determine that compressed gas cylinders under the employer's control are in a safe condition to the extent that this can be determined by visual inspection. Visual and other inspections shall be conducted as prescribed in the hazardous materials regulations of the department of transportation (49 CFR Parts 171-179 and 14 CFR Part 103). Where those regulations are not applicable, visual and other inspections shall be conducted in accordance with Compressed Gas Association Pamphlets C-6-1968 and C-8-1962.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-29501, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-29501, filed 5/9/73 and Order 73-4, § 296-24-29501, filed 5/7/73.]

WAC 296-24-29503 Compressed gases. The in-plant handling, storage, and utilization of all compressed gases in cylinders, portable tanks, rail tankcars, or motor vehicle cargo tanks shall be in accordance with Compressed Gas Association Pamphlet P-1-1965.

[Order 73-5, § 296-24-29503, filed 5/9/73 and Order 73-4, § 296-24-29503, filed 5/7/73.]

WAC 296-24-29505 Safety relief devices for compressed gas containers. Compressed gas cylinders, portable tanks, and cargo tanks shall have pressure relief devices installed and maintained in accordance with Compressed Gas Association Pamphlets S-1.1-1963 and 1965 addenda and S-1.2-1963.

[Order 73-5, § 296-24-29505, filed 5/9/73 and Order 73-4, § 296-24-29505, filed 5/7/73.]

WAC 296-24-310 Acetylene.

[Order 73-5, § 296-24-310, filed 5/9/73 and Order 73-4, § 296-24-310, filed 5/7/73.]

WAC 296-24-31001 Cylinders. The in-plant transfer, handling, storage, and utilization of acetylene in cylinders shall be in accordance with Compressed Gas Association Pamphlet G-1-1966.

[Order 73-5, § 296-24-31001, filed 5/9/73 and Order 73-4, § 296-24-31001, filed 5/7/73.]

WAC 296-24-31003 Piped systems. The piped systems for the in-plant transfer and distribution of acetylene shall be designed, installed, maintained, and operated in accordance with Compressed Gas Association Pamphlet G-1.3-1959.

[Order 73-5, § 296-24-31003, filed 5/9/73 and Order 73-4, § 296-24-31003, filed 5/7/73.]

WAC 296-24-31005 Generators and filling cylinders. Plants for the generation of acetylene and the charging (filling) of acetylene cylinders shall be designed, constructed, and tested in accordance with the standards prescribed in Compressed Gas Association Pamphlet G-1.4-1966.

[Order 73-5, § 296-24-31005, filed 5/9/73 and Order 73-4, § 296-24-31005, filed 5/7/73.]

WAC 296-24-315 Hydrogen.

[Order 73-5, § 296-24-315, filed 5/9/73 and Order 73-4, § 296-24-315, filed 5/7/73.]

WAC 296-24-31501 General. (1) Definitions as used in this section.

(a) Gaseous hydrogen system is one in which the hydrogen is delivered, stored and discharged in the gaseous form to consumer's piping. The system includes stationary or movable containers, pressure regulators, safety relief devices, manifolds, interconnecting piping and controls. The system terminates at the point where hydrogen at service pressure first enters the consumer's distribution piping.

(b) Approved—Means unless otherwise indicated, listed or approved by a nationally recognized testing laboratory. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(c) Listed—See "approved."

(d) ASME—American Society of Mechanical Engineers.

(e) DOT specifications—Regulations of the department of transportation published in 49 CFR Chapter I.

(f) DOT regulations—See WAC 296-24-315.

(2) Scope.

(a) Gaseous hydrogen systems.

(i) WAC 296-24-31503 applies to the installation of gaseous hydrogen systems on consumer premises where the hydrogen supply to the consumer premises originates outside the consumer premises and is delivered by mobile equipment.

(ii) WAC 296-24-31503 does not apply to gaseous hydrogen systems having a total hydrogen content of less than four hundred cubic feet, nor to hydrogen manufacturing plants or other establishments operated by the hydrogen supplier or their agent for the purpose of storing hydrogen and

refilling portable containers, trailers, mobile supply trucks, or tank cars.

(b) Liquefied hydrogen systems.

(i) WAC 296-24-31505 applies to the installation of liquefied hydrogen systems on consumer premises.

(ii) WAC 296-24-31505 does not apply to liquefied hydrogen portable containers of less than one hundred fifty liters (39.63 gallons) capacity; nor to liquefied hydrogen manufacturing plants or other establishments operated by the hydrogen supplier or supplier's agent for the sole purpose of storing liquefied hydrogen and refilling portable containers, trailers, mobile supply trucks or tank cars.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-31501, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-31501, filed 11/14/88; Order 73-5, § 296-24-31501, filed 5/9/73 and Order 73-4, § 296-24-31501, filed 5/7/73.]

WAC 296-24-31503 Gaseous hydrogen systems. (1) Design.

(a) Containers.

(i) Hydrogen containers shall comply with one of the following:

(A) Designed, constructed, and tested in accordance with appropriate requirements of ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessels—1968.

(B) Designed, constructed, tested and maintained in accordance with U.S. Department of Transportation specifications and regulations.

(ii) Permanently installed containers shall be provided with substantial noncombustible supports on firm noncombustible foundations.

(iii) Each portable container shall be legibly marked with the name "hydrogen" in accordance with "marking compressed gas containers to identify the material contained" ANSI Z48.1-1954. Each manifolded hydrogen supply unit shall be legibly marked with the name hydrogen or a legend such as "this unit contains hydrogen."

(b) Safety relief devices.

(i) Hydrogen containers shall be equipped with safety relief devices as required by the ASME Boiler and Pressure Vessel Code, Section VIII Unfired Pressure Vessels, 1968 or the DOT specifications and regulations under which the container is fabricated.

(ii) Safety relief devices shall be arranged to discharge upward and unobstructed to the open air in such a manner as to prevent any impingement of escaping gas upon the container, adjacent structure of personnel. This requirement does not apply to DOT specification containers having an internal volume of 2 cubic feet or less.

(iii) Safety relief devices or vent piping shall be designed or located so that moisture cannot collect and freeze in a manner which would interfere with proper operation of the device.

(c) Piping, tubing, and fittings.

(i) Piping, tubing, and fittings shall be suitable for hydrogen service and for the pressures and temperatures involved. Case iron pipe and fittings shall not be used.

(ii) Piping and tubing shall conform to Section 2—"Industrial Gas and Air Piping"—Code for Pressure Piping, ANSI B31.1-1967 with addenda B31.1-1969.

(iii) Joints in piping and tubing may be made by welding or brazing or by use of flanged, threaded, socket, or compression fittings. Gaskets and thread sealants shall be suitable for hydrogen service.

(d) Equipment assembly.

(i) Valves, gauges, regulators, and other accessories shall be suitable for hydrogen service.

(ii) Installation of hydrogen systems shall be supervised by personnel familiar with proper practices with reference to their construction and use.

(iii) Storage containers, piping, valves, regulating equipment, and other accessories shall be readily accessible, and shall be protected against physical damage and against tampering.

(iv) Cabinets or housings containing hydrogen control or operating equipment shall be adequately ventilated.

(v) Each mobile hydrogen supply unit used as part of a hydrogen system shall be adequately secured to prevent movement.

(vi) Mobile hydrogen supply units shall be electrically bonded to the system before discharging hydrogen.

(e) Marking. The hydrogen storage location shall be permanently placarded as follows: "HYDROGEN—FLAMMABLE GAS—NO SMOKING—NO OPEN FLAMES, " or equivalent.

(f) Testing. After installations, all piping, tubing, and fittings shall be tested and proved hydrogen gas tight at maximum operating pressure.

(2) Location.

(a) General.

(i) The system shall be located so that it is readily accessible to delivery equipment and to authorized personnel.

(ii) Systems shall be located above ground.

(iii) Systems shall not be located beneath electric power lines.

(iv) Systems shall not be located close to flammable liquid piping or piping of other flammable gases.

(v) Systems near aboveground flammable liquid storage shall be located on ground higher than the flammable liquid storage except when dikes, diversion curbs, grading, or separating solid walls are used to prevent accumulation of flammable liquids under the system.

(b) Specific requirements.

(i) The location of a system, as determined by the maximum total contained volume of hydrogen, shall be in the order of preference as indicated by Roman numerals in Table H-1.

TABLE H-1

Nature of location	Size of hydrogen system		
	Less than 3,000 CF	3,000 CF to 15,000 CF	In excess of 15,000 CF
Outdoors	I	I	I.
In a separate building	II	II	II.
In a special room	III	III	Not permitted.

Nature of location		Size of hydrogen system	
Inside buildings not in a special room and exposed to other occupancies	IV	Not permitted.	Not permitted.

(ii) The minimum distance in feet from a hydrogen system of indicated capacity located outdoors, in separate buildings or in special rooms to any specified outdoor exposure shall be in accordance with Table H-2.

(iii) The distances in Table H-2 Items 1, 14, and 3 to 10 inclusive do not apply where protective structures such as adequate fire walls are located between the system and the exposure.

(iv) Hydrogen systems of less than 3,000 CF when located inside buildings and exposed to other occupancies shall be situated in the building so that the system will be as follows:

(A) In an adequately ventilated area as in (3)(b)(ii) of this section.

(B) Twenty feet from stored flammable materials or oxidizing gases.

(C) Twenty-five feet from open flames, ordinary electrical equipment or other sources of ignition.

(D) Twenty-five feet from concentrations of people.

(E) Fifty feet from intakes of ventilation or air-conditioning equipment and air compressors.

(F) Fifty feet from other flammable gas storage.

(G) Protected against damage or injury due to falling objects or working activity in the area.

(H) More than one system of 3,000 CF or less may be installed in the same room, provided the systems are separated by at least 50 feet. Each such system shall meet all of the requirements of this section.

(3) Design consideration at specific locations.

(a) Outdoor locations.

(i) Where protective walls or roofs are provided, they shall be constructed of noncombustible materials.

(ii) Where the enclosing sides adjoin each other, the area shall be properly ventilated.

(iii) Electrical equipment shall meet the requirements for Class I, Division 2 hazardous locations of WAC 296-24-95613.

(b) Separate buildings.

(i) Separate buildings shall be built of at least noncombustible construction. Windows and doors shall be located so as to be readily accessible in case of emergency. Windows shall be of glass or plastic in metal frames.

(ii) Adequate ventilation to the outdoors shall be provided. Inlet openings shall be located near the floor in exterior walls only. Outlet openings shall be located at the high point of the room in exterior walls or roof. Inlet and outlet openings shall each have minimum total area of one square foot per 1,000 cubic feet of room volume. Discharge from outlet openings shall be directed or conducted to a safe location.

(iii) Explosion venting shall be provided in exterior walls or roof only. The venting area shall be equal to not less than 1 square foot per 30 cubic feet of room volume and may consist of any one or any combination of the following: Walls of light noncombustible material, preferably single thickness, single strength glass; lightly fastened hatch covers; lightly fastened swinging doors in exterior walls opening outward; lightly fastened walls or roof designed to relieve at a maximum pressure of 25 pounds per square foot.

(iv) There shall be no sources of ignition from open flames, electrical equipment, or heating equipment.

(v) Electrical equipment shall meet the requirements of chapter 296-24 WAC Part L.

(vi) Heating, if provided, shall be by steam, hot water, or other indirect means.

(c) Special rooms.

(i) Floor, walls, and ceiling shall have a fire-resistance rating of at least 2 hours. Walls or partitions shall be continuous from floor to ceiling and shall be securely anchored. At least one wall shall be an exterior wall. Openings to other parts of the building shall not be permitted. Windows and doors shall be in exterior walls and shall be located so as to be readily accessible in case of emergency. Windows shall be of glass or plastic in metal frames.

(ii) Ventilation shall be as provided in (3)(b)(ii) of this section.

(iii) Explosion venting shall be as provided in (3)(b)(iii) of this section.

(iv) There shall be no sources of ignition from open flames, electrical equipment or heating equipment.

(v) Electrical equipment shall meet the requirements of chapter 296-24 WAC Part L.

(vi) Heating, if provided, shall be by steam, hot water, or indirect means.

(4) Operating instructions. For installations which require any operation of equipment by the user, legible instructions shall be maintained at operating locations.

(5) Maintenance.

(a) The equipment and functioning of each charged gaseous hydrogen system shall be maintained in a safe operating condition in accordance with the requirements of this section. The area within 15 feet of any hydrogen container shall be kept free of dry vegetation and combustible material.

TABLE H-2

Type of outdoor exposure		Size of hydrogen system: Less than 3,000 CF	3,000 CF to 15,000 CF	In excess of 15,000 CF
1. Building or structure	Wood frame construction*	- 10	25	50

Type of outdoor exposure			Size of hydrogen system: Less than 3,000 CF	3,000 CF to 15,000 CF	In excess of 15,000 CF
		Heavy timber, noncombustible or ordinary construction*	- 0	10	**25
		Fire-resistive construction*	- 0	0	0
2.	Wall openings	- Not above any part of a system	10	10	10
		Above any part of a system	25	25	25
3.	Flammable liquids above ground	0 to 1,000 gallons	- 10	25	25
		In excess of 1 000 gallons	- 25	50	50
4.	Flammable liquids below ground—0 to 1,000 gallons	- Tank	- 10	10	10
		Vent or fill opening of tank	25	25	25
5.	Flammable liquids below ground—in excess of 1,000 gallons	- Tank	- 20	20	20
		Vent or fill opening of tank	25	25	25
6.	Flammable gas storage, either high pressure or low pressure				
		0 to 15,000 CF capacity	- 10	25	25
		In excess of 15,000 CF capacity	25	50	50
7.	Oxygen storage	- 12,000 CF or less	- Refer to NFPA No. 51, gas systems for welding and cutting (1969).		
		More than 12,000 CF	- Refer to NFPA No. 566, bulk oxygen systems at consumer sites (1969).		
8.	Fast burning solids such as ordinary lumber, excelsior or paper		50	50	25
9.	Slow burning solids such as heavy timber or coal		25	25	25
10.	Open flames and other sources of ignition		25	25	50
11.	Air compressor intakes or inlets to ventilating or air-condition equipment		50	50	50
12.	Concentration of people***		25	50	50
13.	Public sidewalks		15	15	15
14.	Line of adjoining property which may be built upon		5	5	5

* Refer to NFPA No. 220 standard types of building construction for definitions of various types of construction. (1969 Ed.)

** But not less than one-half the height of adjacent side wall of the structure.

*** In congested areas such as offices, lunchrooms, locker rooms, time-clock areas, and places of public assembly.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-31503, filed 11/22/91, effective 12/24/91; 88-23-054 (Order 88-25), § 296-24-31503, filed 11/14/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-31503, filed 4/19/85; Order 76-6, § 296-24-31503, filed 3/1/76; Order 73-5, § 296-24-31503, filed 5/9/73 and Order 73-4, § 296-24-31503, filed 5/7/73.]

WAC 296-24-31505 Liquefied hydrogen systems. (1) Design.

(a) Containers.

(i) Hydrogen containers shall comply with the following: Storage containers shall be designed, constructed, and tested in accordance with appropriate requirements of the ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessels (1968) or applicable provisions of API Standard 620, Recommended Rules for Design and Construction of Large, Welded, Low-Pressure Storage Tanks, Second Edition (June 1963) and Appendix R (April 1965).

(ii) Portable containers shall be designed, constructed and tested in accordance with DOT specifications and regulations.

(b) Supports. Permanently installed containers shall be provided with substantial noncombustible supports securely anchored on firm noncombustible foundations. Steel supports in excess of 18 inches in height shall be protected with a protective coating having a 2-hour fire-resistance rating.

(c) Marking. Each container shall be legibly marked to indicate "LIQUEFIED HYDROGEN—FLAMMABLE GAS."

(d) Safety relief devices.

(i) Stationary liquefied hydrogen containers shall be equipped with safety relief devices sized in accordance with CGA Pamphlet S-1-1966, Part 3, Safety Relief Device Standards for Compressed Gas Storage Containers.

(A) Portable liquefied hydrogen containers complying with the U.S. Department of Transportation regulations shall be equipped with safety relief devices as required in the U.S. Department of Transportation specifications and regulations. Safety relief devices shall be sized in accordance with the requirements of CGA Pamphlet S-1-1966, Safety Relief Device Standards, Part 1, Compressed Gas Cylinders and Part 2, Cargo and Portable Tank Containers.

(ii) Safety relief devices shall be arranged to discharge unobstructed to the outdoors and in such a manner as to prevent impingement of escaping liquid or gas upon the container, adjacent structures or personnel. See (2)(a)(vi) of this

section for venting of safety relief devices in special locations.

(iii) Safety relief devices or vent piping shall be designed or located so that moisture cannot collect and freeze in a manner which would interfere with proper operation of the device.

(iv) Safety relief devices shall be provided in piping wherever liquefied hydrogen could be trapped between closures

(e) Piping, tubing, and fittings.

(i) Piping, tubing, and fittings and gasket and thread sealants shall be suitable for hydrogen service at the pressures and temperatures involved. Consideration shall be given to the thermal expansion and contraction of piping systems when exposed to temperature fluctuations of ambient to liquefied hydrogen temperatures.

(ii) Gaseous hydrogen piping and tubing (above—20°F) shall conform to the applicable sections of Pressure Piping Section 2—Industrial Gas and Air Piping, ANSI B31.1-1967 with addenda B31.1-1969. Design of liquefied hydrogen or cold (-20°F or below) gas piping shall use Petroleum Refinery Piping ANSI B31.3-1966 or Refrigeration Piping ANSI B31.5-1966 with addenda B31.5a-1968 as a guide.

(iii) Joints in piping and tubing shall preferably be made by welding or brazing; flanged, threaded, socket, or suitable compression fittings may be used.

(iv) Means shall be provided to minimize exposure of personnel to piping operating at low temperatures and to prevent air condensate from contacting piping, structural members, and surfaces not suitable for cryogenic temperatures. Only those insulating materials which are rated nonburning in accordance with ASTM Procedures D1692-68 may be used. Other protective means may be used to protect personnel. The insulation shall be designed to have a vapor-tight seal in the outer covering to prevent the condensation of air and subsequent oxygen enrichment within the insulation. The insulation material and outside shield shall also be of adequate design to prevent attrition of the insulation due to normal operating conditions.

(v) Uninsulated piping and equipment which operate at liquefied-hydrogen temperature shall not be installed above asphalt surfaces or other combustible materials in order to prevent contact of liquid air with such materials. Drip pans may be installed under uninsulated piping and equipment to retain and vaporize condensed liquid air.

(f) Equipment assembly.

(i) Valves, gauges, regulators, and other accessories shall be suitable for liquefied hydrogen service and for the pressures and temperatures involved.

(ii) Installation of liquefied hydrogen systems shall be supervised by personnel familiar with proper practices and with reference to their construction and use.

(iii) Storage containers, piping, valves, regulating equipment, and other accessories shall be readily accessible and shall be protected against physical damage and against tampering. A shutoff valve shall be located in liquid product withdrawal lines as close to the container as practical. On containers of over 2,000 gallons capacity, this shutoff valve shall be of the remote control type with no connections, flanges, or other appurtenances (other than a welded manual shutoff valve) allowed in the piping between the shutoff valve and its connection to the inner container.

(iv) Cabinets or housings containing hydrogen control equipment shall be ventilated to prevent any accumulation of hydrogen gas.

(g) Testing.

(i) After installation, all field-erected piping shall be tested and proved hydrogen gas-tight at operating pressure and temperature.

(ii) Containers if out of service in excess of 1 year shall be inspected and tested as outlined in (1) of this section. The safety relief devices shall be checked to determine if they are operable and properly set.

(h) Liquefied hydrogen vaporizers.

(i) The vaporizer shall be anchored and its connecting piping shall be sufficiently flexible to provide for the effect of expansion and contraction due to temperature changes.

(ii) The vaporizer and its piping shall be adequately protected on the hydrogen and heating media sections with safety relief devices.

(iii) Heat used in a liquefied hydrogen vaporizer shall be indirectly supplied utilizing media such as air, steam, water, or water solutions.

(iv) A low temperature shutoff switch shall be provided in the vaporizer discharge piping to prevent flow of liquefied hydrogen in the event of the loss of the heat source.

(i) Electrical systems.

(i) Electrical wiring and equipment located within 3 feet of a point where connections are regularly made and disconnected, shall meet the requirements of chapter 296-24 WAC Part L for Class I, Division 1 locations.

(ii) Except as provided in (l) of this section, electrical wiring, and equipment located within 25 feet of a point where connections are regularly made and disconnected or within 25 feet of a liquid hydrogen storage container, shall meet the requirements of chapter 296-24 WAC Part L for Class I, Division 2 locations. When equipment approved for Class I, environments is not commercially available, the equipment may be:

(A) Purged or ventilated in accordance with NFPA No. 496-1967, Standard for Purged Enclosures for Electrical Equipment in Hazardous Locations,

(B) Intrinsically safe, or

(C) Approved for Class I, Group C atmospheres. This requirement does not apply to electrical equipment which is installed on mobile supply trucks or tank cars from which the storage container is filled.

(j) Bonding and grounding. The liquefied hydrogen container and associated piping shall be electrically bonded and grounded.

(2) Location of liquefied hydrogen storage.

(a) General requirements.

(i) The storage containers shall be located so that they are readily accessible to mobile supply equipment at ground level and to authorized personnel.

(ii) The containers shall not be exposed by electric power lines, flammable liquid lines, flammable gas lines, or lines carrying oxidizing materials.

(iii) When locating liquefied hydrogen storage containers near above-ground flammable liquid storage or liquid

oxygen storage, locate the liquefied hydrogen container on ground higher than flammable liquid storage or liquid oxygen storage.

(iv) Where it is necessary to locate the liquefied hydrogen container on ground that is level with or lower than adjacent flammable liquid storage or liquid oxygen storage, suitable protective means shall be taken (such as by diking, diversion, curbs, grading), with respect to the adjacent flammable liquid storage or liquid oxygen storage, to prevent accumulation of liquids within 50 feet of the liquefied hydrogen container.

(v) Storage sites shall be fenced and posted to prevent entrance by unauthorized personnel. Sites shall also be placarded as follows: "Liquefied hydrogen—Flammable gas—No smoking—No open flames."

(vi) If liquefied hydrogen is located in (as specified in Table H-3) a separate building, in a special room, or inside buildings when not in a special room and exposed to other occupancies, containers shall have the safety relief devices vented unobstructed to the outdoors at a minimum elevation of 25 feet above grade to a safe location as required in (l)(d)(ii) of this section.

(b) Specific requirements.

(i) The location of liquefied hydrogen storage, as determined by the maximum total quantity of liquefied hydrogen, shall be in the order of preference as indicated by Roman numerals in the following Table H-3.

TABLE H-3
MAXIMUM TOTAL QUANTITY OF LIQUEFIED HYDROGEN STORAGE PERMITTED

Nature of location	Size of hydrogen storage (capacity in gallons)			
	39.63 (150 liters) to 50	51 to 300	301 to 600	In excess of 600
Outdoors	I	I	I	I
In a separate building	II	II	II	Not permitted.
In a special room	III	III	Not permitted	Not permitted.
Inside buildings not in a special room and exposed to other occupancies	IV	Not permitted	Not permitted	Not permitted.

Note: This table does not apply to the storage in dewars of the type generally used in laboratories for experimental purposes.

(ii) The minimum distance in feet from liquefied hydrogen systems of indicated storage capacity located outdoors, in a separate building, or in a special room to any specified exposure shall be in accordance with Table H-4.

TABLE H-4
MINIMUM DISTANCE (FEET) FROM LIQUEFIED HYDROGEN SYSTEMS TO EXPOSURE

Type of exposure	Liquefied hydrogen storage (capacity in gallons)		
	39.63 (150 liters) to 3,500	3,501 to 15,000	15,001 to 30,000
1. Fire-resistive building and fire walls*	5	5	5
2. Noncombustible building*	25	50	75
3. Other buildings*	50	75	100
4. Wall openings, air-compressor intakes, inlets for air-conditioning or ventilating equipment	75	75	75
5. Flammable liquids (above ground and vent or fill openings if below ground) (see 513 and 514)	50	75	100
6. Between stationary liquefied hydrogen containers	5	5	5
7. Flammable gas storage	50	75	100
8. Liquid oxygen storage and other oxidizers (see 513 and 514)	100	100	100
9. Combustible solids	50	75	100
10. Open flames, smoking, and welding	50	50	50
11. Concentrations of people**	75	75	75
12. Public ways, railroads, and property lines	25	50	75

* Refer to standard types of building construction, NFPA No. 220-1969 for definitions of various types of construction.

** In congested areas such as offices, lunchrooms, locker rooms, time-clock areas, and places of public assembly.

Note 1: The distance in Nos. 2, 3, 5, 7, 9, and 12 in Table H-4 may be reduced where protective structures, such as firewalls equal to height of top of the container, to safeguard the liquefied hydrogen storage system, are located between the liquefied hydrogen storage installation and the exposure.

Note 2: Where protective structures are provided, ventilation and confinement of product should be considered. The 5-foot distance in Nos. 1 and 6 facilitates maintenance and enhances ventilation.

(c) Handling of liquefied hydrogen inside buildings other than separate buildings and special rooms. Portable liquefied hydrogen containers of 50 gallons or less capacity as permitted in Table H-3 and in compliance with (2)(a)(vi) of this section when housed inside buildings not located in a special room and exposed to other occupancies shall comply with the following minimum requirements:

(i) Be located 20 feet from flammable liquids and readily combustible materials such as excelsior or paper.

(ii) Be located 25 feet from ordinary electrical equipment and other sources of ignition including process or analytical equipment.

(iii) Be located 25 feet from concentrations of people.

(iv) Be located 50 feet from intakes of ventilation and air-conditioning equipment or intakes of compressors.

(v) Be located 50 feet from storage of other flammable-gases or storage of oxidizing gases.

(vi) Containers shall be protected against damage or injury due to falling objects or work activity in the area.

(vii) Containers shall be firmly secured and stored in an upright position.

(viii) Welding or cutting operations, and smoking shall be prohibited while hydrogen is in the room.

(ix) The area shall be adequately ventilated. Safety relief devices on the containers shall be vented directly outdoors or to a suitable hood. See (1)(d)(ii) of this section and (2)(a)(vi) of this section.

(3) Design considerations at specific locations.

(a) Outdoor locations.

(i) Outdoor location shall mean outside of any building or structure, and includes locations under a weather shelter or canopy provided such locations are not enclosed by more than two walls set at right angles and are provided with ventspace between the walls and vented roof or canopy.

(ii) Roadways and yard surfaces located below liquefied hydrogen piping, from which liquid air may drop, shall be constructed of noncombustible materials.

(iii) If protective walls are provided, they shall be constructed of noncombustible materials and in accordance with the provisions of (3)(a)(i) of this section as applicable.

(iv) Electrical wiring and equipment shall comply with chapter 296-24 WAC Part L.

(v) Adequate lighting shall be provided for nighttime transfer operation.

(b) Separate buildings.

(i) Separate buildings shall be of light noncombustible construction on a substantial frame. Walls and roofs shall be lightly fastened and designed to relieve at a maximum internal pressure of 25 pounds per square foot. Windows shall be of shatterproof glass or plastic in metal frames. Doors shall be located in such a manner that they will be readily accessible to personnel in an emergency.

(ii) Adequate ventilation to the outdoors shall be provided. Inlet openings shall be located near the floor level in exterior walls only. Outlet openings shall be located at the high point of the room in exterior walls or roof. Both the inlet and outlet vent openings shall have a minimum total area of 1 square foot per 1,000 cubic feet of room volume. Discharge from outlet openings shall be directed or conducted to a safe location.

(iii) There shall be no sources of ignition.

(iv) Electrical wiring and equipment shall comply with chapter 296-24 WAC Part L.

(v) Heating, if provided, shall be by steam, hot water, or other indirect means.

(c) Special rooms.

(i) Floors, walls, and ceilings shall have a fire resistance rating of at least 2 hours. Walls or partitions shall be continuous from floor to ceiling and shall be securely anchored. At least one wall shall be an exterior wall. Openings to other parts of the building shall not be permitted. Windows and doors shall be in exterior walls and doors shall be located in such a manner that they will be accessible in an emergency. Windows shall be of shatterproof glass or plastic in metal frames.

(ii) Ventilation shall be as provided in (3)(b)(ii) of this section.

(iii) Explosion venting shall be provided in exterior walls or roof only. The venting area shall be equal to not less than 1 square foot per 30 cubic feet of room volume and may consist of any one or any combination of the following: Walls of light noncombustible material; lightly fastened hatch covers; lightly fastened swinging doors opening outward in exterior walls; lightly fastened walls or roofs designed to relieve at a maximum pressure of 25 pounds per square foot.

(iv) There shall be no sources of ignition.

(v) Electrical wiring and equipment shall comply with chapter 296-24 WAC Part L.

(vi) Heating, if provided, shall be steam, hot water, or by other indirect means.

(4) Operating instructions.

(a) Written instructions. For installation which require any operation of equipment by the user, legible instructions shall be maintained at operating locations.

(b) Attendant. A qualified person shall be in attendance at all times while the mobile hydrogen supply unit is being unloaded.

(c) Security. Each mobile liquefied hydrogen supply unit used as part of a hydrogen system shall be adequately secured to prevent movement.

(d) Grounding. The mobile liquefied hydrogen supply unit shall be grounded for static electricity.

(5) Maintenance.

(a) The equipment and functioning of each charged liquefied hydrogen system shall be maintained in a safe operating condition in accordance with the requirements of this section. Weeds or similar combustibles shall not be permitted within 25 feet of any liquified hydrogen equipment.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-31505, filed 11/22/91, effective 12/24/91; 88-23-054 (Order 88-25), § 296-24-31505, filed 11/14/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-31505, filed 4/19/85; Order 76-6, § 296-24-31505, filed 3/1/76; Order 73-5, § 296-24-31505, filed 5/9/73 and Order 73-4, § 296-24-31505, filed 5/7/73.]

WAC 296-24-320 Oxygen.

[Order 73-5, § 296-24-320, filed 5/9/73 and Order 73-4, § 296-24-320, filed 5/7/73.]

WAC 296-24-32001 Scope. This section applies to the installation of bulk oxygen systems on industrial and institutional consumer premises. This section does not apply to oxygen manufacturing plants or other establishments operated by the oxygen supplier or supplier's agent for the purpose of storing oxygen and refilling portable containers, trailers, mobile supply trucks, or tank cars, nor to systems having capacities less than those stated in WAC 296-24-32003(1).

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-32001, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-32001, filed 5/9/73 and Order 73-4, § 296-24-32001, filed 5/7/73.]

WAC 296-24-32003 Bulk oxygen systems. (1) Definitions. As used in this section: A bulk oxygen system is an assembly of equipment, such as oxygen storage containers, pressure regulators, safety devices, vaporizers, manifolds, and interconnecting piping, which has storage capacity of more than 13,000 cubic feet of oxygen, normal temperature and pressure (NTP), connected in service or ready for service, or more than 25,000 cubic feet of oxygen (NTP) including unconnected reserves on hand at the site. The bulk oxygen

system terminates at the point where oxygen at service pressure first enters the supply line. The oxygen containers may be stationary or movable, and the oxygen may be stored as gas or liquid.

(2) Location.

(a) General. Bulk oxygen storage systems shall be located above ground out of doors, or shall be installed in a building of noncombustible construction, adequately vented, and used for that purpose exclusively. The location selected shall be such that containers and associated equipment shall not be exposed by electric power lines, flammable or combustible liquid lines, or flammable gas lines.

(b) Accessibility. The system shall be located so that it is readily accessible to mobile supply equipment at ground level and to authorized personnel.

(c) Leakage. Where oxygen is stored as a liquid, noncombustible surfacing shall be provided in an area in which any leakage of liquid oxygen might fall during operation of the system and filling of a storage container. For purposes of these standards, asphaltic or bituminous paving is considered to be combustible.

(d) Elevation. When locating bulk oxygen systems near above ground flammable or combustible liquid storage which may be either indoors or outdoors, it is advisable to locate the system on ground higher than the flammable or combustible liquid storage.

(e) Dikes. Where it is necessary to locate a bulk oxygen system on ground lower than adjacent flammable or combustible liquid storage suitable means shall be taken (such as by diking, diversion curbs, or grading) with respect to the adjacent flammable or combustible liquid storage to prevent accumulation of liquids under the bulk oxygen system.

(3) Distance between systems and exposures.

(a) General. The minimum distance from any bulk oxygen storage container to exposures, measured in the most direct line except as indicated in (3)(f) and (g) of this section shall be as indicated in (3)(b) to (r) of this section inclusive.

(b) Combustible structures. Fifty feet from any combustible structures.

(c) Fire resistive structures. Twenty-five feet from any structures with fire-resistive exterior walls or sprinklered buildings or other construction, but not less than one-half the height of adjacent side wall of the structure.

(d) Openings. At least 10 feet from any opening in adjacent walls of fire resistive structures. Spacing from such structures shall be adequate to permit maintenance, but shall not be less than 1 foot.

(e) Flammable liquid storage above ground.

Distance (feet)	Capacity (gallons)
50	0-1000
90	1001 or more

(f) Flammable liquid storage below ground.

Distance measured horizontally from oxygen storage container to flammable liquid tank (feet)	Distance from oxygen storage container to filling and vent connections or openings to flammable liquid tank (feet)	Capacity gallons
15	50	0-1000
30	50	1001 or more

(g) Combustible liquid storage above ground.

Distance (feet)	Capacity (gallons)
25	0-1000
50	1001 or more

(h) Combustible liquid storage below ground.

Distance measured horizontally from oxygen storage container to combustible liquid tank (feet)	Distance from oxygen storage container to filling and vent connections or openings to combustible liquid tank (feet)
15	40

(i) Flammable gas storage. (Such as compressed flammable gases, liquefied flammable gases and flammable gases in low pressure gas holders):

Distance (feet)	Capacity (cu. ft. NTP)
50	Less than 5000
90	5000 or more

(j) Highly combustible materials. Fifty feet from solid materials which burn rapidly, such as excelsior or paper.

(k) Slow-burning materials. Twenty-five feet from solid materials which burn slowly, such as coal and heavy timber.

(l) Ventilation. Seventy-five feet in one direction and 35 feet in approximately 90° direction from confining walls (not including firewalls less than 20 feet high) to provide adequate ventilation in courtyards and similar confining areas.

(m) Congested areas. Twenty-five feet from congested areas such as offices, lunchrooms, locker rooms, time clock areas, and similar locations where people may congregate.

(n) Public areas. Fifty feet from places of public assembly.

(o) Patients. Fifty feet from areas occupied by nonambulatory patients.

(p) Sidewalks. Ten feet from any public sidewalk.

(q) Adjacent property. Five feet from any line of adjoining property.

(r) Exceptions. The distances in (3)(b), (c), (e) to (k) inclusive, and (p) and (q) of this section do not apply where protective structures such as firewalls of adequate height to safeguard the oxygen storage systems are located between the bulk oxygen storage installation and the exposure. In such cases, the bulk oxygen storage installation may be a minimum distance of 1 foot from the firewall.

(4) Storage containers.

(a) Foundations and supports. Permanently installed containers shall be provided with substantial noncombustible supports on firm noncombustible foundations.

(b) Construction—Liquid. Liquid oxygen storage containers shall be fabricated from materials meeting the impact test requirements of paragraph UG-84 of ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessels—1968. Containers operating at pressures above 15 pounds per square inch gage (p.s.i.g.) shall be designed, constructed, and tested in accordance with appropriate requirements of ASME Boiler and Pressure Vessel Code, Section VII—Unfired Pressure Vessels—1968. Insulation surrounding the liquid oxygen container shall be noncombustible.

(c) Construction—Gaseous. High-pressure gaseous oxygen containers shall comply with one of the following:

(i) Designed, constructed, and tested in accordance with appropriate requirements of ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessels—1968.

(ii) Designed, constructed, tested, and maintained in accordance with DOT specifications and regulations.

(5) Piping, tubing, and fittings.

(a) Selection. Piping, tubing, and fittings shall be suitable for oxygen service and for the pressures and temperatures involved.

(b) Specification. Piping and tubing shall conform to Section 2—Gas and Air Piping Systems of Code for Pressure Piping, ANSI, B31.1-1967 with addenda B31.10a-1969.

(c) Fabrication. Piping or tubing for operating temperatures below -20°F shall be fabricated from materials meeting the impact test requirements of paragraph UG-84 of ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessels—1968, when tested at the minimum operating temperature to which the piping may be subjected in service.

(6) Safety relief devices.

(a) General. Bulk oxygen storage containers, regardless of design pressure shall be equipped with safety relief devices as required by the ASME code or the DOT specifications and regulations.

(b) DOT containers. Bulk oxygen storage containers designed and constructed in accordance with DOT specification shall be equipped with safety relief devices as required thereby.

(c) ASME containers. Bulk oxygen storage containers designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII—Unfired Pressure Vessel—1968 shall be equipped with safety relief devices meeting the provisions of the Compressed Gas Association Pamphlet "Safety Relief Device Standards for Compressed Gas Storage Containers, " S-1, Part 3.

(d) Insulation. Insulation casings on liquid oxygen containers shall be equipped with suitable safety relief devices.

(e) Reliability. All safety relief devices shall be so designed or located that moisture cannot collect and freeze in a manner which would interfere with proper operation of the device.

(7) Liquid oxygen vaporizers.

(a) Mounts and couplings. The vaporizer shall be anchored and its connecting piping be sufficiently flexible to provide for the effect of expansion and contraction due to temperature changes.

(b) Relief devices. The vaporizer and its piping shall be adequately protected on the oxygen and heating medium sections with safety relief devices.

(c) Heating. Heat used in an oxygen vaporizer shall be indirectly supplied only through media such as steam, air, water, or water solutions which do not react with oxygen.

(d) Grounding. If electric heaters are used to provide the primary source of heat, the vaporizing system shall be electrically grounded.

(8) Equipment assembly and installation.

(a) Cleaning. Equipment making up a bulk oxygen system shall be cleaned in order to remove oil, grease or other readily oxidizable materials before placing the system in service.

(b) Joints. Joints in piping and tubing may be made by welding or by use of flanged, threaded, slip, or compression fittings. Gaskets or thread sealants shall be suitable for oxygen service.

(c) Accessories. Valves, gages, regulators, and other accessories shall be suitable for oxygen service.

(d) Installation. Installation of bulk oxygen systems shall be supervised by personnel familiar with proper practices with reference to their construction and use.

(e) Testing. After installation all field erected piping shall be tested and proved gas tight at maximum operating pressure. Any medium used for testing shall be oil free and nonflammable.

(f) Security. Storage containers, piping, valves, regulating equipment, and other accessories shall be protected against physical damage and against tampering.

(g) Venting. Any enclosure containing oxygen control or operating equipment shall be adequately vented.

(h) Placarding. The bulk oxygen storage location shall be permanently placarded to indicate: "OXYGEN—NO SMOKING—NO OPEN FLAMES, " or an equivalent warning.

(i) Electrical wiring. Bulk oxygen installations are not hazardous locations as defined and covered by chapter 296-24 WAC Part L. Therefore, general purpose or weatherproof types of electrical wiring and equipment are acceptable depending upon whether the installation is indoors or outdoors. Such equipment shall be installed according to chapter 296-24 WAC Part L.

(9) Operating instructions. For installations which require any operation of equipment by the user, legible instructions shall be maintained at operating locations.

(10) Maintenance.

(a) The equipment and functioning of each charged bulk oxygen system shall be maintained in a safe operating condition in accordance with the requirements of this section. Wood and long dry grass shall be cut back within 15 feet of any bulk oxygen storage container.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-32003, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-32003, filed 4/19/85; Order 76-6, § 296-24-32003, filed 3/1/76; Order 73-5, § 296-24-32003, filed 5/9/73 and Order 73-4, § 296-24-32003, filed 5/7/73.]

WAC 296-24-325 Nitrous oxide. The piped systems for the in-plant transfer and distribution of nitrous oxide shall be designed, installed, maintained, and operated in accordance with Compressed Gas Association Pamphlet G8.1-1964.

[Order 73-5, § 296-24-325, filed 5/9/73 and Order 73-4, § 296-24-325, filed 5/7/73.]

WAC 296-24-330 Flammable and combustible liquids.

[Order 73-5, § 296-24-330, filed 5/9/73 and Order 73-4, § 296-24-330, filed 5/7/73.]

WAC 296-24-33001 Definitions. The following definitions are applicable to all sections of this chapter which include WAC 296-24-330 in the section number.

(1) Aerosol shall mean a material which is dispensed from its container as a mist, spray, or foam by a propellant under pressure.

(2) Atmospheric tank shall mean a storage tank which has been designed to operate at pressures from atmospheric through 0.5 p.s.i.g.

(3) Automotive service station shall mean that portion of property where flammable or combustible liquids used as motor fuels are stored and dispensed from fixed equipment into the fuel tanks of motor vehicles and shall include any facilities available for the sale and service of tires, batteries, and accessories, and for minor automotive maintenance work. Major automotive repairs, painting, body and fender work are excluded.

(4) Basement shall mean a story of a building or structure having one-half or more of its height below ground level and to which access for fire fighting purposes is unduly restricted.

(5) Boiling point shall mean the boiling point of a liquid at a pressure of 14.7 pounds per square inch absolute (p.s.i.a.) (760 mm.). Where an accurate boiling point is unavailable for the material in question, or for mixtures which do not have a constant boiling point, for purposes of this section the ten percent point of a distillation performed in accordance with the Standard Method of Test for Distillation of Petroleum Products, ASTM D-86-62, may be used as the boiling point of the liquid.

(6) Boilover shall mean the expulsion of crude oil (or certain other liquids) from a burning tank. The light fractions of the crude oil burnoff producing a heat wave in the residue, which on reaching a water strata may result in the expulsion of a portion of the contents of the tank in the form of froth.

(7) Bulk plant shall mean that portion of a property where flammable or combustible liquids are received by tank vessel, pipelines, tank car, or tank vehicle, and are stored or blended in bulk for the purpose of distributing such liquids by tank vessel, pipeline, tank car, tank vehicle, or container.

(8) Chemical plant shall mean a large integrated plant or that portion of such a plant other than a refinery or distillery where flammable or combustible liquids are produced by chemical reactions or used in chemical reactions.

(9) Closed container shall mean a container as herein defined, so sealed by means of a lid or other device that neither liquid nor vapor will escape from it at ordinary temperatures.

(10) Crude petroleum shall mean hydrocarbon mixtures that have a flash point below 150°F and which have not been processed in a refinery.

(11) Distillery shall mean a plant or that portion of a plant where flammable or combustible liquids produced by fermentation are concentrated, and where the concentrated products may also be mixed, stored, or packaged.

(12) Fire area shall mean an area of a building separated from the remainder of the building by construction having a fire resistance of at least one hour and having all communicating openings properly protected by an assembly having a fire resistance rating of at least one hour.

(13) Fire resistance or fire resistive construction shall mean construction to resist the spread of fire.

(14) Flammable aerosol shall mean an aerosol which is required to be labeled "Flammable" under the Federal Hazardous Substances Labeling Act (15 U.S.C. 1261). For the purposes of WAC 296-24-33009, such aerosols are considered Class IA liquids.

(15) "Flashpoint" means the minimum temperature at which a liquid gives off vapor within a test vessel in sufficient concentration to form an ignitable mixture with air near the surface of the liquid, and shall be determined as follows:

(a) For a liquid which has a viscosity of less than 45 SUS at 100° F (37.8°C), does not contain suspended solids, and does not have a tendency to form a surface film while under test, the procedure specified in the Standard Method of Test for Flashpoint by Tag Closed Tester (ASTM D-56-70) shall be used.

(b) For a liquid which has a viscosity of 45 SUS or more at 100°F (37.8°C), or contains suspended solids, or has a tendency to form a surface film while under test, the Standard Method of Test for Flashpoint by Pensky-Martens Closed Tester (ASTM D-93-71) shall be used, except that the methods specified in Note 1 to section 1.1 of ASTM D-93-71 may be used for the respective materials specified in the note.

(c) For a liquid that is a mixture of compounds that have different volatilities and flashpoints, its flashpoint shall be determined by using the procedure specified in (a) or (b) of this subsection on the liquid in the form it is shipped. If the flashpoint, as determined by this test, is 100°F (37.8°C) or higher, an additional flashpoint determination shall be run on a sample of the liquid evaporated to ninety percent of its original volume, and the lower value of the two tests shall be considered the flashpoint of the material.

(d) Organic peroxides, which undergo autoaccelerating thermal decomposition, are excluded from any of the flashpoint determination methods specified in this section.

(16) Hotel shall mean buildings or groups of buildings under the same management in which there are sleeping accommodations for hire primarily used by transients who are lodged with or without meals including but not limited to inns, clubs, motels, and apartment hotels.

(17) Institutional occupancy shall mean the occupancy or use of a building or structure or any portion thereof by persons harbored or detained to receive medical, charitable or other care or treatment, or by persons involuntarily detained.

(18) Liquid shall mean, for the purpose of these standards, any material which has a fluidity greater than that of 300 penetration asphalt when tested in accordance with ASTM Test for Penetration for Bituminous Materials, D-5-65. When not otherwise identified, the term liquid shall include both flammable and combustible liquids.

(19) "Combustible liquid" means any liquid having a flashpoint at or above 100°F (37.8°C). Combustible liquids shall be divided into two classes as follows:

(a) "Class II liquids" shall include those with flashpoints at or above 100°F (37.8°C) and below 140°F (60°C), except any mixture having components with flashpoints of 200°F (93.3°C) or higher, the volume of which make up ninety-nine percent or more of the total volume of the mixture.

(b) "Class III liquids" shall include those with flashpoints at or above 140°F (60°C). Class III liquids are subdivided into two subclasses:

(i) "Class IIIA liquids" shall include those with flashpoints at or above 140°F (60°C) and below 200°F (93.3°C) except any mixture having components with flashpoints of 200°F (93.3°C) or higher, the total volume of which make up ninety-nine percent or more of the total volume of the mixture.

(ii) "Class IIIB liquids" shall include those with flashpoints at or above 200°F (93.3°C). This section does not cover Class IIIB liquids. Where the term "Class III liquids" is used in this section, it shall mean only Class IIIA liquids.

(c) When a combustible liquid is heated for use to within 30°F (16.7°C) of its flashpoint, it shall be handled in accordance with the requirements for the next lower class of liquids.

(20) "Flammable liquid" means any liquid having a flashpoint below 100°F (37.8°C), except any mixture having components with flashpoints of 100°F (37.8°C), or higher, the total of which make up ninety-nine percent or more of the total volume of the mixture. Flammable liquids shall be known as Class I liquids. Class I liquids are divided into three classes as follows:

(a) Class IA shall include liquids having flashpoints below 73°F (22.8°C) and having a boiling point below 100°F (37.8°C).

(b) Class IB shall include liquids having flashpoints below 73°F (22.8°C) and having a boiling point at or above 100°F (37.8° C).

(c) Class IC shall include liquids having flashpoints at or above 73°F (22.8°C) and below 100°F (37.8°C).

(21) Unstable (reactive) liquid shall mean a liquid which in the pure state or as commercially produced or transported will vigorously polymerize, decompose, condense, or will become self-reactive under conditions of shocks, pressure, or temperature.

(22) Low-pressure tank shall mean a storage tank which has been designed to operate at pressures above 0.5 p.s.i.g. but not more than 15 p.s.i.g.

(23) Marine service station shall mean that portion of a property where flammable or combustible liquids used as fuels are stored and dispensed from fixed equipment on shore, piers, wharves, or floating docks into the fuel tanks or self-propelled craft, and shall include all facilities used in connection therewith.

(24) Mercantile occupancy shall mean the occupancy or use of a building or structure or any portion thereof for the displaying, selling, or buying of goods, wares, or merchandise.

(25) Office occupancy shall mean the occupancy or use of a building or structure or any portion thereof for the transaction of business, or the rendering or receiving of professional services.

(26) Portable tank shall mean a closed container having a liquid capacity over sixty United States gallons and not intended for fixed installation.

(27) Pressure vessel shall mean a storage tank or vessel which has been designed to operate at pressures above 15 p.s.i.g.

(28) Protection for exposure shall mean adequate fire protection for structures on property adjacent to tanks, where there are employees of the establishment.

(29) Refinery shall mean a plant in which flammable or combustible liquids are produced on a commercial scale from crude petroleum, natural gasoline, or other hydrocarbon sources.

(30) Safety can shall mean an approved container, of not more than five gallons capacity, having a spring-closing lid and spout cover and so designed that it will safely relieve internal pressure when subjected to fire exposure.

(31) Vapor pressure shall mean the pressure, measured in pounds per square inch (absolute) exerted by a volatile liquid as determined by the "Standard Method of Test for Vapor Pressure of Petroleum Products (Reid Method), " American Society for Testing and Materials ASTM D323-68.

(32) Ventilation as specified in these standards is for the prevention of fire and explosion. It is considered adequate if it is sufficient to prevent accumulation of significant quantities of vapor-air mixtures in concentration over one-fourth of the lower flammable limit.

(33) Storage: Flammable or combustible liquids shall be stored in a tank or in a container that complies with WAC 296-24-33009(2).

(34) Barrel shall mean a volume of forty-two United States gallons.

(35) Container shall mean any can, barrel, or drum.

(36) Approved unless otherwise indicated, approved, or listed by a nationally recognized testing laboratory. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(37) Listed see subsection (36) of this section.

(38) "SUS" means Saybolt Universal Seconds as determined by the Standard Method of Test for Saybolt Viscosity (ASTM D-88-56), and may be determined by use of the SUS conversion tables specified in ASTM Method D2161-66 following determination of viscosity in accordance with the procedures specified in the Standard Method of Test for Viscosity of Transparent and Opaque Liquids (ASTM D445-65).

(39) "Viscous" means a viscosity of 45 SUS or more.

Note: The volatility of liquids is increased when artificially heated to temperatures equal to or higher than their flashpoints. When so heated Class II and III liquids shall be subject to the applicable requirements for Class I or II liquids. These standards may also be applied to high flashpoint liquids when so heated even though these same liquids when not heated are outside of its scope.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-33001, filed 11/14/88. Statutory Authority: RCW 49.17.040 and

49.17.050. 82-08-026 (Order 82-10), § 296-24-33001, filed 3/30/82. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-33001, filed 11/13/80; Order 76-29, § 296-24-33001, filed 9/30/76; Order 76-6, § 296-24-33001, filed 3/1/76; Order 74-27, § 296-24-33001, filed 5/7/74; Order 73-5, § 296-24-33001, filed 5/9/73 and Order 73-4, § 296-24-33001, filed 5/7/73.]

WAC 296-24-33003 Scope. This section applies to the handling, storage, and use of flammable and combustible liquids with a flash point below 200°F. This section does not apply to:

(1) Bulk transportation of flammable and combustible liquids;

(2) Storage, handling, and use of fuel oil tanks and containers connected with oil burning equipment;

(3) Storage of flammable and combustible liquids on farms.

(4) Liquids without flashpoints that may be flammable under some conditions, such as certain halogenated hydrocarbons and mixtures containing halogenated hydrocarbons;

(5) Mists, sprays, or foams, except flammable aerosols covered in WAC 296-24-33009; or

(6) Installations made in accordance with requirements of the following standards:

(a) National Fire Protection Association Standard for Drycleaning Plants, NFPA No. 32-1970;

(b) National Fire Protection Association Standard for the Manufacture of Organic Coatings, NFPA No. 35-1970;

(c) National Fire Protection Association Standard for Solvent Extraction Plants, NFPA No. 36-1967; or

(d) National Fire Protection Association Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, NFPA No. 37-1970.

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-33003, filed 10/20/95, effective 1/16/96. Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-24-33003, filed 3/2/94, effective 3/1/95; Order 73-5, § 296-24-33003, filed 5/9/73 and Order 73-4, § 296-24-33003, filed 5/7/73.]

WAC 296-24-33005 Tank storage. (1) Design and construction of tanks.

(a) Materials.

(i) Tanks shall be built of steel except as provided in (1)(a)(ii) through (v) of this section.

(ii) Tanks may be built of materials other than steel for installation underground or if required by the properties of the liquid stored. Tanks located above ground or inside buildings shall be of noncombustible construction.

(iii) Tanks built of materials other than steel shall be designed to specifications embodying principles recognized as good engineering design for the material used.

(iv) Unlined concrete tanks may be used for storing flammable or combustible liquids having a gravity of 40°API or heavier. Concrete tanks with special lining may be used for other services provided the design is in accordance with sound engineering practice.

(v) Tanks may have combustible or noncombustible linings.

(vi) Special engineering consideration shall be required if the specific gravity of the liquid to be stored exceeds that of water or if the tanks are designed to contain flammable or combustible liquids at a liquid temperature below 0°F.

(b) Fabrication.

(i) Tanks may be of any shape or type consistent with sound engineering design.

(ii) Metal tanks shall be welded, riveted, and caulked, brazed, or bolted, or constructed by use of a combination of these methods. Filler metal used in brazing shall be nonferrous metal or an alloy having a melting point above 1000°F and below that of the metal joined.

(c) Atmospheric tanks.

(i) Atmospheric tanks shall be built in accordance with acceptable good standards of design. Atmospheric tanks may be built in accordance with:

(A) Underwriters' Laboratories, Inc., Subjects No. 142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids, 1968; No. 58, Standards for Steel Underground Tanks for Flammable and COMBUSTIBLE Liquids, Fifth Edition, December 1961; or No. 80, Standard for Steel Inside Tanks for Oil-Burner Fuel, September 1963.

(B) American Petroleum Institute Standards No. 12A, Specification for Oil Storage Tanks with Riveted Shells, Seventh Edition, September 1951, or No. 650, Welded Steel Tanks for Oil Storage, Third Edition, 1966.

(C) American Petroleum Institute Standards No. 12B, Specification for Bolted Production Tanks, Eleventh Edition, May 1958, and Supplement 1, March 1962; No. 12D, Specification for Large Welded Production Tanks, Seventh Edition, August 1957; or No. 12F, Specification for Small Welded Production Tanks, Fifth Edition, March 1961. Tanks built in accordance with these standards shall be used only as production tanks for storage of crude petroleum in oil-producing areas.

(ii) Tanks designed for underground service not exceeding 2,500 gallons capacity may be used aboveground.

(iii) Low-pressure tanks and pressure vessels may be used as atmospheric tanks.

(iv) Atmospheric tanks shall not be used for the storage of a flammable or combustible liquid at a temperature at or above its boiling point.

(d) Low pressure tanks.

(i) The normal operating pressure of the tank shall not exceed the design pressure of the tank.

(ii) Low-pressure tanks shall be built in accordance with acceptable standards of design. Low-pressure tanks may be built in accordance with:

(A) American Petroleum Institute Standard No. 620, Recommended Rules for the Design and Construction of Large, Welded, Low-Pressure Storage Tanks, Third Edition, 1966.

(B) The principles of the Code for Unfired Pressure Vessels, Section VIII of the ASME Boiler and Pressure Vessels Code, 1968.

(iii) Atmospheric tanks built according to the Underwriters' Laboratories, Inc., requirements in (1)(c)(i) of this section may be used for operating pressures not exceeding 1 p.s.i.g. and shall be limited to 2.5 p.s.i.g. under emergency venting conditions. Pressure vessels may be used as low-pressure tanks.

(e) Pressure vessels.

(i) The normal operating pressure of the vessel shall not exceed the design pressure of the vessel.

(ii) Pressure vessels shall be built in accordance with the Code for Unfired Pressure Vessels, Section VIII of the ASME Boiler and Pressure Vessel Code, 1968.

(f) Provisions for internal corrosion. When tanks are not designed in accordance with the American Petroleum Institute, American Society of Mechanical Engineers, or the Underwriters' Laboratories, Inc.'s standards, or if corrosion is anticipated beyond that provided for in the design formulas used, additional metal thickness or suitable protective coatings or linings shall be provided to compensate for the corrosion loss expected during the design life of the tank.

(2) Installation of outside aboveground tanks.

(a) Location with respect to property lines and public ways.

(i) Every aboveground tank for the storage of flammable or combustible liquids, except those liquids with boil-over characteristics and unstable liquids, operating at pressures not in excess of 2.5 p.s.i.g. and equipped with emergency venting which will not permit pressures to exceed 2.5 p.s.i.g. shall be located in accordance with Table H-5.

(ii) Every aboveground tank for the storage of flammable or combustible liquids, except those liquids with boil-over characteristics and unstable flammable or combustible liquids, operating at pressures exceeding 2.5 p.s.i.g. or equipped with emergency venting which will permit pressures to exceed 2.5 p.s.i.g. shall be located in accordance with Table H-6.

(iii) Every aboveground tank for the storage of flammable or combustible liquids with boil-over characteristics shall be located in accordance with Table H-7.

(iv) Every aboveground tank for the storage of unstable liquids shall be located in accordance with Table H-8.

(v) Reference minimum distances for use in Tables H-5 to H-8 inclusive.

(vi) Where end failure or horizontal pressure tanks and vessels may expose property, the tank shall be placed with the longitudinal axis parallel to the nearest important exposure.

TABLE H-5

Type of tank	Protection	Minimum distance in feet from property line which may be built upon, including the opposite side of a public way.	Minimum distance in feet from nearest side of any public way or from nearest important building and shall be not less than 5 feet.
Floating roof	Protection for exposures.	1/2 times diameter of tank but need not exceed 90 ft.	1/6 times diameter of tank but need not exceed 30 ft.
	None	Diameter of tank but need not exceed 175 ft.	1/6 times diameter of tank but need not exceed 30 ft.
Vertical with weak roof to shell seam	Approved foam or inerting system on the tank.	1/2 times diameter of tank but need not exceed 90 ft. and shall not be less than 5 ft.	1/6 times diameter of tank but need not exceed 30 ft.
	Protection for exposures.	Diameter of tank but need not exceed 175 ft.	1/3 times diameter of tank but need not exceed 60 ft.
	None	2 times diameter of tank but need not exceed 350 ft.	1/3 times diameter of tank but need not exceed 60 ft.
Horizontal and vertical, with emergency relief venting to limit pressures to 2.5 p.s.i.g.	Approved inerting system on the tank or approved foam system on vertical tanks.	1/2 times Table H-9 but shall not be less than 5 ft.	1/2 times Table H-9.
	Protection for exposures.	Table H-9	Table H-9
	None	2 times table	Table H-9

TABLE H-6

Type of tank	Protection	Minimum distance in feet from property line which may be built upon, including the opposite side of a public way.	Minimum distance in feet from nearest side of any public way or from nearest important building.
Any type	Protection for exposures.	1 1/2 times Table H-9 but shall not be less than 25 ft.	1 1/2 times Table H-9 but shall not be less than 25 ft.
	None	3 times Table H-9 but shall not be less than 50 ft.	1 1/2 times Table H-9 but shall not be less than 25 ft.

TABLE H-7

Type of tank	Protection	Minimum distance in feet from property line which may be built upon, including the opposite side of a public way.	Minimum distance in feet from nearest side of any public way or from nearest important building.
Floating roof	Protection for exposures.	Diameter of tank but need not exceed 175 ft.	1/3 times diameter of tank but need not exceed 60 ft.
	None	2 times diameter of tank but need not exceed 350 ft.	1/3 times diameter of tank but need not exceed 60 ft.
Fixed roof	Approved foam or inerting system.	Diameter of tank but need not exceed 175 ft.	1/3 times diameter of tank but need not exceed 60 ft.
	Protection for exposures.	2 times diameter of tank but need not exceed 350 ft.	2/3 times diameter of tank but need not exceed 120 ft.
	None	4 times diameter of tank but need not exceed 350 ft.	2/3 times diameter of tank but need not exceed 120 ft.

TABLE H-8

Type of tank	Protection	Minimum distance in feet from property line which may be built upon, including the opposite side of a public way.	Minimum distance in feet from nearest side of any public way or from nearest important building.
Horizontal and vertical tanks with emergency relief venting to permit pressure not in excess of 2.5 p.s.i.g.	Tank protected with any of the following: Approved water spray, approved inerting, approved insulation and refrigeration, approved barricade.	See Table H-9, but the distance may be not less than 25 ft.	Not less than 25 ft.
	Protection for exposures.	2 1/2 times Table H-9 but not less than 50 ft.	Not less than 50 ft.
	None ———	5 times Table H-9 but not less than 100 ft.	Not less than 100 ft.
Horizontal and vertical tanks with emergency relief venting to permit pressure over 2.5 p.s.i.g.	Tank protected with any one of the following: Approved water spray, approved inerting, approved insulation and refrigeration, approved barricade.	2 times Table H-9 but not less than 50 ft.	Not less than 50 ft.
	Protection for exposures.	4 times Table H-9 but not less than 100 ft.	Not less than 100 ft.
	None ———	8 times Table H-9 but not less than 150 ft.	Not less than 150 ft.

TABLE H-9

Capacity tank gallons	Minimum distance in feet from property line which may be built upon, including the opposite side of a public way.	Minimum distance in feet from nearest side of any public way or from nearest important building.
275 or less	5	5
276 to 750	10	5
751 to 12,000	15	5
12,001 to 30,000	20	5
30,001 to 50,000	30	10
50,001 to 100,000	50	15
100,001 to 500,000	80	25
500,001 to 1,000,000	100	35
1,000,001 to 2,000,000	135	45
2,000,001 to 3,000,000	165	55
3,000,001 or more	175	60

(b) Spacing (shell-to-shell) between aboveground tanks.

(i) The distance between any two flammable or combustible liquid storage tanks shall not be less than 3 feet.

(ii) Except as provided in (2)(b)(iii) of this section, the distance between any two adjacent tanks shall not be less than one-sixth the sum of their diameters. When the diameter of one tank is less than one-half the diameter of the adjacent tank, the distance between the two tanks shall not be less than one-half the diameter of the smaller tank.

(iii) Where crude petroleum in conjunction with production facilities are located in noncongested areas and have capacities not exceeding 126,000 gallons (3,000 barrels), the distance between such tanks shall not be less than 3 feet.

(iv) Where unstable flammable or combustible liquids are stored, the distance between such tanks shall not be less than one-half the sum of their diameters.

(v) When tanks are compacted in three or more rows or in an irregular pattern, greater spacing or other means shall be provided so that inside tanks are accessible for fire fighting purposes.

(vi) The minimum separation between a liquefied petroleum gas container and a flammable or combustible liquid storage tank shall be 20 feet, except in the case of flammable or combustible liquid tanks operating at pressures exceeding 2.5 p.s.i.g. or equipped with emergency venting which will permit pressures to exceed 2.5 p.s.i.g. in which case the provisions of (2)(b)(i) and (ii) of this section shall apply. Suitable means shall be taken to prevent the accumulation of flammable or combustible liquids under adjacent liquefied petroleum gas containers such as by diversion curbs or grading. When flammable or combustible liquid storage tanks are within a diked area, the liquefied petroleum gas containers shall be outside the diked area and at least 10 feet away from the centerline of the wall of the diked area. The foregoing provisions shall not apply when liquefied petroleum gas containers of 125 gallons or less capacity are installed adjacent to fuel oil supply tanks of 550 gallons or less capacity.

(c) Location of outside aboveground tanks with respect to important buildings on same property. Every outside aboveground tank shall be separated from important buildings on the same property by distances not less than those specified in (2)(a)(i), (ii), (iii) and (iv) of this section, whichever is applicable. The appropriate distance column in Tables H-5, H-6, H-7, H-8, or H-9, that shall be used shall be the one reading: "Minimum distance in feet from nearest side of any public way or from nearest important building."

(d) Normal venting for aboveground tanks. (i) Atmospheric storage tanks shall be adequately vented to prevent the development of vacuum or pressure sufficient to distort the roof of a cone roof tank or exceed the design pressure in the case of other atmospheric tanks, as a result of filling or emptying, and atmospheric temperature changes.

(ii) Normal vents shall be sized either in accordance with: (A) The American Petroleum Institute Standard 2000 (1968), Venting Atmospheric and Low-Pressure Storage Tanks; or (B), other accepted standard; or (C) shall be at least as large as the filling or withdrawal connection, whichever is larger but in no case less than 1 1/4 inch nominal inside diameter.

(iii) Low-pressure tanks and pressure vessels shall be adequately vented to prevent development of pressure or vacuum, as a result of filling or emptying and atmospheric temperature changes, from exceeding the design pressure of the tank or vessel. Protection shall also be provided to prevent over-pressure from any pump discharging into the tank or

vessel when the pump discharge pressure can exceed the design pressure of the tank or vessel.

(iv) If any tank or pressure vessel has more than one fill or withdrawal connection and simultaneous filling or withdrawal can be made, the vent size shall be based on the maximum anticipated simultaneous flow.

(v) Unless the vent is designed to limit the internal pressure 2.5 p.s.i. or less, the outlet of vents and vent drains shall be arranged to discharge in such a manner as to prevent localized overheating of any part of the tank in the event vapors from such vents are ignited.

(vi) Tanks and pressure vessels storing Class IA liquids shall be equipped with venting devices which shall be normally closed except when venting to pressures or vacuum conditions. Tanks and pressure vessels storing Class IB and IC liquids shall be equipped with venting devices which shall be normally closed except when venting under pressure or vacuum conditions, or with approved flame arresters.

Exemption: Tanks of 3,000 bbls. capacity or less containing crude petroleum in crude-producing areas; and, outside aboveground atmospheric tanks under 1,000 gallons capacity containing other than Class IA flammable liquids may have open vents. (See (2)(f)(ii) of this section.)

(vii) Flame arresters or venting devices required in (2)(e)(vi) of this section may be omitted for Class IB and IC liquids where conditions are such that their use may, in case of obstruction, result in tank damage.

(e) Emergency relief venting for fire exposure for aboveground tanks.

(i) Every aboveground storage tank shall have some form of construction or device that will relieve excessive internal pressure caused by exposure fires.

(ii) In a vertical tank the construction referred to in (2)(e)(i) of this section may take the form of a floating roof, lifter roof, a weak roof-to-shell seam, or other approved pressure relieving construction. The weak roof-to-shell seam shall be constructed to fail preferential to any other seam.

(iii) Where entire dependence for emergency relief is placed upon pressure relieving devices, the total venting capacity of both normal and emergency vents shall be enough to prevent rupture of the shell or bottom of the tank if vertical, or of the shell or heads if horizontal. If unstable liquids are stored, the effects of heat or gas resulting from polymerization, decomposition, condensation, or self-reactivity shall be taken into account. The total capacity of both normal and emergency venting devices shall be not less than that derived from Table H-10 except as provided in (2)(e)(v) and (vi) of this section. Such device may be a self-closing manhole cover, or one using long bolts that permit the cover to lift under internal pressure, or an additional or larger relief valve or valves. The wetted area of the tank shall be calculated on the basis of 55 percent of the total exposed area of a sphere or spheroid, 75 percent of the total exposed area of a horizontal tank and the first 30 feet above grade of the exposed shell area of a vertical tank.

TABLE 10
WETTED AREA VERSUS CUBIC FEET FREE AIR PER HOUR
(14.7 psia and 60°F)

Square feet	CFH	Square feet	CFH	Square feet	CFH
20	21,100	200	211,000	1,000	524,000
30	31,600	250	239,000	1,200	557,000
40	42,100	300	265,000	1,400	587,000
50	52,700	350	288,000	1,600	614,000
60	63,200	400	312,000	1,800	639,000
70	73,700	500	354,000	2,000	662,000
80	84,200	600	392,000	2,400	704,000
90	94,800	700	428,000	2,800	742,000
100	105,000	800	462,000	and	
120	126,000	900	493,000	over	
140	147,000	1,000	524,000		
160	168,000				
180	190,000				
200	211,000				

(iv) For tanks and storage vessels designed for pressure over 1 p.s.i.g., the total rate of venting shall be determined in accordance with Table H-10, except that when the exposed wetted area of the surface is greater than 2,800 square feet, the total rate of venting shall be calculated by the following formula:

$$CFH = 1,107A^{0.82}$$

Where:

CFH = Venting requirement, in cubic feet of free air per hour.

A = Exposed wetted surface, in square feet.

Note: The foregoing formula is based on $Q = 21,000A^{0.82}$.

(v) The total emergency relief venting capacity for any specific stable liquid may be determined by the following formula:

$$\text{Cubic feet of free air per hour} = V$$

$$V = \frac{1337}{L\,M}$$

V = Cubic feet of free air per hour from Table H-10.

L = Latent heat of vaporization of specific liquid in B.t.u. per pound.

M = Molecular weight of specific liquids.

(vi) The required airflow rate of (2)(e)(iii) or (v) of this section may be multiplied by the appropriate factor listed in the following schedule when protection is provided as indicated. Only one factor may be used for any one tank.

0.5 for drainage in accordance with (2)(g)(ii) of this section for tanks over 200 square feet of wetted area.
0.3 for approved water spray.
0.3 for approved insulation.
0.15 for approved water spray with approved insulation.

(vii) The outlet of all vents and vent drains on tanks equipped with emergency venting to permit pressures exceeding 2.5 p.s.i.g. shall be arranged to discharge in such a way as to prevent localized overheating of any part of the tank, in the event vapors from such vents are ignited.

(viii) Each commercial tank venting device shall have stamped on it the opening pressure, the pressure at which the valve reaches the full open position, and the flow capacity at

the latter pressure, expressed in cubic feet per hour of air at 60°F and at a pressure of 14.7 p.s.i.a.

(ix) The flow capacity of tank venting devices 12 inches and smaller in nominal pipe size shall be determined by actual test of each type and size of vent. These flow tests may be conducted by the manufacturer if certified by a qualified impartial observer, or may be conducted by an outside agency. The flow capacity of tank venting devices larger than 12 inches nominal pipe size, including manhole covers with long bolts or equivalent, may be calculated provided that the opening pressure is actually measured, the rating pressure and corresponding free orifice area are stated, the word "calculated" appears on the nameplate, and the computation is based on a flow coefficient of 0.5 applied to the rated orifice area.

(f) Vent piping for aboveground tanks.

(i) Vent piping shall be constructed in accordance with WAC 296-24-33007 of this section.

(ii) Where vent pipe outlets for tanks storing Class I liquids are adjacent to buildings or public ways, they shall be located so that the vapors are released at a safe point outside of buildings and not less than 12 feet above the adjacent ground level. In order to aid their dispersion, vapors shall be discharged upward or horizontally away from closely adjacent walls. Vent outlets shall be located so that flammable vapors will not be trapped by eaves or other obstructions and shall be at least five feet from building openings.

(iii) When tank vent piping is manifolded, pipe sizes shall be such as to discharge within the pressure limitations of the system, the vapors they may be required to handle when manifolded tanks are subject to the same fire exposure.

(g) Drainage, dikes, and walls for aboveground tanks.

(i) Drainage and diked areas. The area surrounding a tank or a group of tanks shall be provided with drainage as in (2)(g)(ii) of this section, or shall be diked as provided in (2)(g)(iii), to prevent accidental discharge of liquid from endangering adjoining property or reaching waterways.

(ii) Drainage. Where protection of adjoining property or waterways is by means of a natural or manmade drainage system, such systems shall comply with the following:

(A) A slope of not less than 1 percent away from the tank toward the drainage system shall be provided.

(B) The drainage system shall terminate in vacant land or other area or in an impounding basin having a capacity not smaller than that of the largest tank served. This termination area and the route of the drainage system shall be so located that, if the flammable or combustible liquids in the drainage system are ignited, the fire will not seriously expose tanks or adjoining property.

(C) The drainage system, including automatic drainage pumps, shall not discharge to adjoining property, natural water courses, public sewers, or public drains unless the discharge of flammable or combustible liquids would not constitute a hazard, or the system is so designed that it will not permit flammable or combustible liquids to be released.

(iii) Diked areas. Where protection of adjoining property or waterways is accomplished by retaining the liquid around the tank by means of a dike, the volume of the diked area shall comply with the following requirements:

(A) Except as provided in (2)(g)(iii)(B) of this section, the volumetric capacity of the diked area shall not be less than the greatest amount of liquid that can be released from the largest tank within the diked area, assuming a full tank. The capacity of the diked area enclosing more than one tank shall be calculated by deducting the volume of the tanks other than the largest tank below the height of the dike.

(B) For a tank or group of tanks with fixed roofs containing crude petroleum with boilover characteristics, the volumetric capacity of the diked area shall be not less than the capacity of the largest tank served by the enclosure, assuming a full tank. The capacity of the diked enclosure shall be calculated by deducting the volume below the height of the dike of all tanks within the enclosure.

(C) Walls of the diked area shall be of earth, steel, concrete or solid masonry designed to be liquidtight and to withstand a full hydrostatic head. Earthen walls 3 feet or more in height shall have a flat section at the top not less than 2 feet wide. The slope of an earthen wall shall be consistent with the angle of repose of the material of which the wall is constructed.

(D) The walls of the diked area shall be restricted to an average height of 6 feet above interior grade.

(E) Where provision is made for draining water from diked areas, drainage shall be provided at a uniform slope of not less than 1 percent away from tanks toward a sump, drainbox, or other safe means of disposal located at the greatest practical distance from the tank. Such drains shall normally be controlled in a manner so as to prevent flammable or combustible liquids from entering natural water courses, public sewers, or public drains, if their presence would constitute a hazard. Control of drainage shall be accessible under fire conditions.

(F) No loose combustible material, empty or full drum or barrel, shall be permitted within the diked area.

(G) Each diked area containing two or more tanks shall be subdivided preferably by drainage channels or at least by intermediate curbs in order to prevent spills from endangering adjacent tanks within the diked area as follows:

(I) When storing normally stable liquids in vertical cone roof tanks constructed with weak roof-to-shell seam or approved floating roof tanks or when storing crude petroleum in producing areas in any type of tank, one subdivision for each tank in excess of 10,000 bbls. and one subdivision for each group of tanks (no tank exceeding 10,000 bbls. capacity) having an aggregate capacity not exceeding 15,000 bbls.

(II) When storing normally stable flammable or combustible liquids in tanks not covered in (g)(iii)(G)(I) of this subsection, one subdivision for each tank in excess of 100,000 gallons (2,500 bbls.) and one subdivision for each group of tanks (no tank exceeding 100,000 gallons capacity) having an aggregate capacity not exceeding 150,000 gallons (3,570 bbls.).

(III) When storing unstable liquids in any type of tank, one subdivision for each tank except that tanks installed in accordance with the drainage requirements of NFPA 15-1969, Standard for Water Spray Fixed Systems for Fire Protection shall require no additional subdivision.

(IV) The drainage channels or intermediate curbs shall be located between tanks so as to take full advantage of the

available space with due regard for the individual tank capacities. Intermediate curbs, where used, shall be not less than 18 inches in height.

(h) Tank openings other than vents for aboveground tanks.

(i) Connections for all tank openings shall be vaportight and liquidtight. Vents are covered in (2)(d) through (f) of this section.

(ii) Each connection to an aboveground tank through which liquid can normally flow shall be provided with an internal or an external valve located as close as practical to the shell of the tank. Such valves, when external, and their connections to the tank shall be of steel except when the chemical characteristics of the liquid stored are incompatible with steel. When materials other than steel are necessary, they shall be suitable for the pressures, structural stresses, and temperatures involved, including fire exposures.

(iii) Each connection below the liquid level through which liquid does not normally flow shall be provided with a liquidtight closure. This may be a valve, plug, or blind, or a combination of these.

(iv) Openings for gaging shall be provided with a vapor tight cap or cover.

(v) For Class IB and Class IC liquids other than crude oils, gasolines, and asphalts, the fill pipe shall be so designed and installed as to minimize the possibility of generating static electricity. A fill pipe entering the top of a tank shall terminate within 6 inches of the bottom of the tank and shall be installed to avoid excessive vibration.

(vi) Filling and emptying connections which are made and broken shall be located outside of buildings at a location free from any source of ignition and not less than 5 feet away from any building opening. Such connection shall be closed and liquidtight when not in use. The connection shall be properly identified.

(3) Installation of underground tanks.

(a) Location. Excavation for underground storage tanks shall be made with due care to avoid undermining of foundations of existing structures. Underground tanks or tanks under buildings shall be so located with respect to existing building foundations and supports that the loads carried by the latter cannot be transmitted to the tank. The distance from any part of a tank storing Class I liquids to the nearest wall of any basement or pit shall be not less than 1 foot, and to any property line that may be built upon, not less than 3 feet. The distance from any part of a tank storing Class II or Class III liquids to the nearest wall of any basement, pit or property line shall not be less than 1 foot.

(b) Depth and cover. Underground tanks shall be set on firm foundations and surrounded with at least 6 inches of noncorrosive, inert materials such as clean sand, earth, or gravel well tamped in place. The tank shall be placed in the hole with care since dropping or rolling the tank into the hole can break a weld, puncture or damage the tank, or scrape off the protective coating of coated tanks. Tanks shall be covered with a minimum of 2 feet of earth or shall be covered with not less than 1 foot of earth, on top of which shall be placed a slab of reinforced concrete not less than 4 inches thick. When underground tanks are, or are likely to be, subject to traffic, they shall be protected against damage from vehicles passing over them by at least 3 feet of earth cover, or 18 inches of well-tamped earth, plus 6 inches of reinforced concrete or 8 inches of asphaltic concrete. When asphaltic or reinforced concrete paving is used as part of the protection, it shall extend at least 1 foot horizontally beyond the outline of the tank in all directions.

(c) Corrosion protection. Corrosion protection for the tank and its piping shall be provided by one or more of the following methods:

(i) Use of protective coatings or wrappings;

(ii) Cathodic protection; or,

(iii) Corrosion resistant materials of construction.

(d) Vents.

(i) Location and arrangement of vents for Class I liquids. Vent pipes from tanks storing Class I liquids shall be so located that the discharge point is outside of buildings, higher than the fill pipe opening, and not less than 12 feet above the adjacent ground level. Vent pipes shall discharge only upward in order to disperse vapors. Vent pipes 2 inches or less in nominal inside diameter shall not be obstructed by devices that will cause excessive back pressure. Vent pipe outlets shall be so located that flammable vapors will not enter building openings, or be trapped under eaves or other obstructions. If the vent pipe is less than 10 feet in length, or greater than 2 inches in nominal inside diameter, the outlet shall be provided with a vacuum and pressure relief device or there shall be an approved flame arrester located in the vent line at the outlet or within the approved distance from the outlet.

(ii) Size of vents. Each tank shall be vented through piping adequate in size to prevent blow-back of vapor or liquid at the fill opening while the tank is being filled. Vent pipes shall be not less than 1 1/4 inch nominal inside diameter.

TABLE H-11
VENT LINE DIAMETERS

Maximum flow GPM	Pipe length*		
	50 feet	100 feet	200 feet
	Inches	Inches	Inches
100	1 1/4	1 1/4	1 1/4
200	1 1/4	1 1/4	1 1/4
300	1 1/4	1 1/4	1 1/2
400	1 1/4	1 1/2	2
500	1 1/2	1 1/2	2
600	1 1/2	2	2
700	2	2	2
800	2	2	3
900	2	2	3
1,000	2	2	3

* Vent lines of 50 ft., 100 ft., and 200 ft. of pipe plus 7 ells.

(iii) Location and arrangement of vents for Class II or Class III liquids. Vent pipes from tanks storing Class II or Class III flammable liquids shall terminate outside of the building and higher than the fill pipe opening. Vent outlets shall be above normal snow level. They may be fitted with return bends, coarse screens or other devices to minimize ingress of foreign material.

(iv) Vent piping shall be constructed in accordance with WAC 296-24-33007. Vent pipes shall be so laid as to drain toward the tank without sags or traps in which liquid can col-

lect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.

(v) When tank vent piping is manifolded, pipe sizes shall be such as to discharge, within the pressure limitations of the system, the vapors they may be required to handle when manifolded tanks are filled simultaneously.

(e) Tank openings other than vents.

(i) Connections for all tank openings shall be vapor or liquid tight.

(ii) Openings for manual gaging, if independent of the fill pipe, shall be provided with a liquid-tight cap or cover. If inside a building, each such opening shall be protected against liquid overflow and possible vapor release by means of a spring-loaded check valve or other approved device.

(iii) Fill and discharge lines shall enter tanks only through the top. Fill lines shall be sloped toward the tank.

(iv) For Class IB and Class IC liquids other than crude oils, gasolines, and asphalts, the fill pipe shall be so designed and installed as to minimize the possibility of generating static electricity by terminating within 6 inches of the bottom of the tank.

(v) Filling and emptying connections which are made and broken shall be located outside of buildings at a location free from any source of ignition and not less than 5 feet away from any building opening. Such connection shall be closed and liquidtight when not in use. The connection shall be properly identified.

(4) Installation of tanks inside of buildings.

(a) Location. Tanks shall not be permitted inside of buildings except as provided in WAC 296-24-33011 and 296-24-33015 through 296-24-33019.

(b) Vents. Vents for tanks inside of buildings shall be as provided in (2)(d), (e), (f)(ii) and (3)(d) of this section, except that emergency venting by the use of weak roof seams on tanks shall not be permitted. Vents shall discharge vapors outside the buildings.

(c) Vent piping. Vent piping shall be constructed in accordance with WAC 296-24-33007.

(d) Tank openings other than vents.

(i) Connections for all tank openings shall be vapor or liquidtight. Vents are covered in (4)(b) of this section.

(ii) Each connection to a tank inside of buildings through which liquid can normally flow shall be provided with an internal or an external valve located as close as practical to the shell of the tank. Such valves, when external, and their connections to the tank shall be of steel except when the chemical characteristics of the liquid stored are incompatible with steel. When materials other than steel are necessary, they shall be suitable for the pressures, structural stresses, and temperatures involved, including fire exposures.

(iii) Flammable or combustible liquid tanks located inside of buildings, except in one-story buildings designed and protected for flammable or combustible liquid storage, shall be provided with an automatic-closing heat-actuated valve on each withdrawal connection below the liquid level, except for connections used for emergency disposal, to prevent continued flow in the event of fire in the vicinity of the tank. This function may be incorporated in the valve required in (4)(d)(ii) of this section, and if a separate valve, shall be located adjacent to the valve required in (4)(d)(ii) of this section.

(iv) Openings for manual gaging, if independent of the fill pipe (see (4)(d)(vi) of this section), shall be provided with a vaportight cap or cover. Each such opening shall be protected against liquid overflow and possible vapor release by means of a spring loaded check valve or other approved device.

(v) For Class IB and Class IC liquids other than crude oils, gasolines, and asphalts, the fill pipe shall be so designed and installed as to minimize the possibility of generating static electricity by terminating within 6 inches of the bottom of the tank.

(vi) The fill pipe inside of the tank shall be installed to avoid excessive vibration of the pipe.

(vii) The inlet of the fill pipe shall be located outside of buildings at a location free from any source of ignition and not less than 5 feet away from any building opening. The inlet of the fill pipe shall be closed and liquidtight when not in use. The fill connection shall be properly identified.

(viii) Tanks inside buildings shall be equipped with a device, or other means shall be provided, to prevent overflow into the building.

(5) Supports, foundations, and anchorage for all tank locations.

(a) General. Tank supports shall be installed on firm foundations. Tank supports shall be of concrete, masonry, or protected steel. Single wood timber supports (not cribbing) laid horizontally may be used for outside aboveground tanks if not more than 12 inches high at their lowest point.

(b) Fire resistance. Steel supports or exposed piling shall be protected by materials having a fire resistance rating of not less than 2 hours, except that steel saddles need not be protected if less than 12 inches high at their lowest point. Water spray protection or its equivalent may be used in lieu of fire-resistive materials to protect supports.

(c) Spheres. The design of the supporting structure for tanks such as spheres shall receive special engineering consideration.

(d) Load distribution. Every tank shall be so supported as to prevent the excessive concentration of loads on the supporting portion of the shell.

(e) Foundations. Tanks shall rest on the ground or on foundations made of concrete, masonry, piling, or steel. Tank foundations shall be designed to minimize the possibility of uneven settling of the tank and to minimize corrosion in any part of the tank resting on the foundation.

(f) Flood areas. Where a tank is located in an area that may be subjected to flooding, the applicable precautions outlined in (5)(f) of this section shall be observed.

(i) No aboveground vertical storage tank containing a flammable or combustible liquid shall be located so that the allowable liquid level within the tank is below the established maximum flood stage, unless the tank is provided with a guiding structure such as described in (5)(f)(xiii), (xiv) and (xv) of this section.

(ii) Independent water supply facilities shall be provided at locations where there is no ample and dependable public water supply available for loading partially empty tanks with water.

(iii) In addition to the preceding requirements, each tank so located that more than 70 percent, but less than 100 percent, of its allowable liquid storage capacity will be submerged at the established maximum flood stage, shall be safeguarded by one of the following methods: Tank shall be raised, or its height shall be increased, until its top extends above the maximum flood stage a distance equivalent to 30 percent or more of its allowable liquid storage capacity: *Provided, however,* That the submerged part of the tank shall not exceed two and one-half times the diameter. Or, as an alternative to the foregoing, adequate noncombustible structural guides, designed to permit the tank to float vertically without loss of product, shall be provided.

(iv) Each horizontal tank so located that more than 70 percent of its storage capacity will be submerged at the established flood stage, shall be anchored, attached to a foundation of concrete or of steel and concrete, of sufficient weight to provide adequate load for the tank when filled with flammable or combustible liquid and submerged by flood waters to the established flood stage, or adequately secured by other means.

(v) Spherical and spheroidal tanks shall be protected by applicable methods as specified for either vertical or horizontal tanks.

(vi) At locations where there is no ample and dependable water supply, or where filling of underground tanks with liquid is impracticable because of the character of their contents, their use, or for other reasons, each tank shall be safeguarded against movement when empty and submerged by high ground water or flood waters by anchoring, weighting with concrete or other approved solid loading material, or securing by other means. Each such tank shall be so constructed and installed that it will safely resist external pressures due to high ground water or flood waters.

(vii) At locations where there is an ample and dependable water supply available, underground tanks containing flammable or combustible liquids, so installed that more than 70 percent of their storage capacity will be submerged at the maximum flood stage, shall be so anchored, weighted, or secured by other means, as to prevent movement of such tanks when filled with flammable or combustible liquids, and submerged by flood waters to the established flood stage.

(viii) Pipe connections below the allowable liquid level in a tank shall be provided with valves or cocks located as closely as practicable to the tank shell. Such valves and their connections to tanks shall be of steel or other material suitable for use with the liquid being stored. Cast iron shall not be used.

(ix) At locations where an independent water supply is required, it shall be entirely independent of public power and water supply. Independent source of water shall be available when flood waters reach a level not less than 10 feet below the bottom of the lowest tank on a property.

(x) The self-contained power and pumping unit shall be so located or so designed that pumping into tanks may be carried on continuously throughout the rise in flood waters from a level 10 feet below the lowest tank to the level of the potential flood stage.

(xi) Capacity of the pumping unit shall be such that the rate of rise of water in all tanks shall be equivalent to the established potential average rate of rise of flood waters at any stage.

(xii) Each independent pumping unit shall be tested periodically to insure that it is in satisfactory operating condition.

(xiii) Structural guides for holding floating tanks above their foundations shall be so designed that there will be no resistance to the free rise of a tank, and shall be constructed of noncombustible material.

(xiv) The strength of the structure shall be adequate to resist lateral movement of a tank subject to a horizontal force in any direction equivalent to not less than 25 pounds per square foot acting on the projected vertical cross-sectional area of the tank.

(xv) Where tanks are situated on exposed points or bends in a shoreline where swift currents in flood waters will be present, the structures shall be designed to withstand a unit force of not less than 50 pounds per square foot.

(xvi) The filling of a tank to be protected by water loading shall be started as soon as flood waters reach a dangerous flood stage. The rate of filling shall be at least equal to the rate of rise of the floodwaters (or the established average potential rate of rise).

(xvii) Sufficient fuel to operate the water pumps shall be available at all times to insure adequate power to fill all tankage with water.

(xviii) All valves on connecting pipelines shall be closed and locked in closed position when water loading has been completed.

(xix) Where structural guides are provided for the protection of floating tanks, all rigid connections between tanks and pipelines shall be disconnected and blanked off or binded before the floodwaters reach the bottom of the tank, unless control valves and their connections to the tank are of a type designed to prevent breakage between the valve and the tank shell.

(xx) All valves attached to tanks other than those used in connection with water loading operations shall be closed and locked.

(xxi) If a tank is equipped with a swing line, the swing pipe shall be raised to and secured at its highest position.

(xxii) Inspections. The director or his/her designated representative shall make periodic inspections of all plants where the storage of flammable or combustible liquids is such as to require compliance with the foregoing requirements, in order to assure the following:

(A) That all flammable or combustible liquid storage tanks are in compliance with these requirements and so maintained.

(B) That detailed printed instructions of what to do in flood emergencies are properly posted.

(C) That station operators and other employees depended upon to carry out such instructions are thoroughly informed as to the location and operation of such valves and other equipment necessary to effect these requirements.

(g) Earthquake areas. In areas subject to earthquakes, the tank supports and connections shall be designed to resist damage as a result of such shocks.

(6) Sources of ignition. In locations where flammable vapors may be present, precautions shall be taken to prevent ignition by eliminating or controlling sources of ignition.

Sources of ignition may include open flames, lightning, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, and mechanical), spontaneous ignition, chemical and physical-chemical reactions, and radiant heat.

(7) Testing.

(a) General. All tanks, whether shop built or field erected, shall be strength tested before they are placed in service in accordance with the applicable sections of the code under which they were built. The American Society of Mechanical Engineers (ASME) code stamp. American Petroleum Institute (API) monogram, or the label of the Underwriters' Laboratories, Inc., on a tank shall be evidence of compliance with this strength test. Tanks not marked in accordance with the above codes shall be strength tested before they are placed in service in accordance with good engineering principles and reference shall be made to the sections on testing in the codes listed in (l)(c)(i), (d)(ii) or (e)(ii) of this section.

(b) Strength. When the vertical length of the fill and vent pipes is such that when filled with liquid the static head imposed upon the bottom of the tank exceeds 10 pounds per square inch, the tank and related piping shall be tested hydrostatically to a pressure equal to the static head thus imposed.

(c) Tightness. In addition to the strength test called for in (7)(a) and (b), all tanks and connections shall be tested for tightness. Except for underground tanks, this tightness test shall be made at operating pressure with air, inert gas, or water prior to placing the tank in service. In the case of field-erected tanks the strength test may be considered to be the test for tank tightness. Underground tanks and piping, before being covered, enclosed, or placed in use, shall be tested for tightness hydrostatically, or with air pressure at not less than 3 pounds per square inch and not more than 5 pounds per square inch.

(d) Repairs. All leaks or deformations shall be corrected in an acceptable manner before the tank is placed in service. Mechanical caulking is not permitted for correcting leaks in welded tanks except pinhole leaks in the roof.

(e) Derated operations. Tanks to be operated at pressures below their design pressure may be tested by the applicable provisions of (7)(a) or (b) based upon the pressure developed under full emergency venting of the tank.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-33005, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-33005, filed 11/14/88; Order 76-6, § 296-24-33005, filed 3/1/76; Order 73-5, § 296-24-33005, filed 5/9/73 and Order 73-4, § 296-24-33005, filed 5/7/73.]

WAC 296-24-33007 Piping, valves, and fittings. (1) General.

(a) Design. The design (including selection of materials) fabrication, assembly, test, and inspection of piping systems containing flammable or combustible liquids shall be suitable for the expected working pressures and structural stresses. Conformity with the applicable provisions of Pressure Piping, ANSI B31-1967 series and the provisions of this section, shall be considered prima facie evidence of compliance with the foregoing provisions.

(b) Exceptions. This section does not apply to any of the following:

(i) Tubing or casing on any oil or gas wells and any piping connected directly thereto.

(ii) Motor vehicle, aircraft, boat, or portable or stationary engines.

(iii) Piping within the scope of any applicable boiler and pressures vessel code.

(c) Definitions. As used in this section, piping systems consist of pipe, tubing flanges, bolting, gaskets, valves, fittings, the pressure containing parts of other components such as expansion joints and strainers, and devices which serve such purposes as mixing, separating, snubbing, distributing, metering, or controlling flow.

(2) Materials for piping, valves, and fittings.

(a) Required materials. Materials for piping, valves, or fittings shall be steel, nodular iron or malleable iron, except as provided in subsections (b), (c) and (d).

(b) Exceptions. Materials other than steel, nodular iron, or malleable iron may be used underground, or if required by the properties of the flammable or combustible liquid handled. Material other than steel, nodular iron, or malleable iron shall be designed to specifications embodying principles recognized as good engineering practices for the material used.

(c) Linings. Piping, valves, and fittings may have combustible or noncombustible linings.

(d) Low-melting materials. When low-melting point materials such as aluminum and brass or materials that soften on fire exposure such as plastics, or nonductile materials such as cast iron, are necessary, special consideration shall be given to their behavior on fire exposure. If such materials are used in aboveground piping systems or inside buildings, they shall be suitably protected against fire exposure or so located that any spill resulting from the failure of these materials could not unduly expose persons, important buildings or structures or can be readily controlled by remote valves.

(3) Pipe joints. Joints shall be made liquid tight. Welded or screwed joints or approved connectors shall be used. Threaded joints and connections shall be made up tight with a suitable lubricant or piping compound. Pipe joints dependent upon the friction characteristics of combustible materials for mechanical continuity of piping shall not be used inside buildings. They may be used outside of buildings above or below ground. If used aboveground, the piping shall either be secured to prevent disengagement at the fitting or the piping system shall be so designed that any spill resulting from such disengagement could not unduly expose persons, important buildings or structures, and could be readily controlled by remote valves.

(4) Supports. Piping systems shall be substantially supported and protected against physical damage and excessive stresses arising from settlement, vibration, expansion, or contraction.

(5) Protection against corrosion. All piping for flammable or combustible liquids, both aboveground and underground, where subject to external corrosion, shall be painted or otherwise protected.

(6) Valves. Piping systems shall contain a sufficient number of valves to operate the system properly and to protect the plant. Piping systems in connection with pumps shall contain a sufficient number of valves to control properly the flow of liquid in normal operation and in the event of physi-

cal damage. Each connection to pipelines, by which equipment such as tankcars or tank vehicles discharge liquids by means of pumps into storage tanks, shall be provided with a check valve for automatic protection against backflow if the piping arrangement is such that backflow from the system is possible.

(7) Testing. All piping before being covered, enclosed, or placed in use shall be hydrostatically tested to 150 percent of the maximum anticipated pressure of the system, or pneumatically tested to 110 percent of the maximum anticipated pressure of the system, but not less than 5 pounds per square inch gage at the highest point of the system. This test shall be maintained for a sufficient time to complete visual inspection of all joints and connections, but for at least 10 minutes.

[Order 76-6, § 296-24-33007, filed 3/1/76; Order 73-5, § 296-24-33007, filed 5/9/73 and Order 73-4, § 296-24-33007, filed 5/7/73.]

WAC 296-24-33009 Container and portable tank storage. (1) Scope.

(a) General. This section shall apply only to the storage of flammable or combustible liquids in drums or other containers (including flammable aerosols) not exceeding 60 gallons individual capacity and those portable tanks not exceeding 660 gallons individual capacity.

(b) Exceptions. This section shall not apply to the following:

(i) Storage of containers in bulk plants, service stations, refineries, chemical plants, and distilleries;

(ii) Class I or Class II liquids in the fuel tanks of a motor vehicle, aircraft, boat, or portable or stationary engine;

(iii) Flammable or combustible paints, oils, varnishes, and similar mixtures used for painting or maintenance when not kept for a period in excess of 30 days;

(iv) Beverages when packaged in individual containers not exceeding 1 gallon in size.

(2) Design, construction, and capacity of containers.

(a) General. Only approved containers and portable tanks shall be used. Metal containers and portable tanks meeting the requirements of and containing products authorized by Chapter I, Title 49 of the Code of Federal Regulations - October 1, 1972, (regulations issued by the hazardous materials regulations board, department of transportation), shall be deemed to be acceptable.

(b) Emergency venting. Each portable tank shall be provided with one or more devices installed in the top with sufficient emergency venting capacity to limit internal pressure under fire exposure conditions to 10 p.s.i.g., or 30 percent of the bursting pressure of the tank, whichever is greater. The total venting capacity shall be not less than that specified in WAC 296-24-33005 (2)(e)(iii) or (v). At least one pressure-actuated vent having a minimum capacity of 6,000 cubic feet of free air (14.7 p.s.i.a. and 60° F) shall be used. It shall be set to open at not less than 5 p.s.i.g. If fusible vents are used, they shall be actuated by elements that operate at a temperature not exceeding 300°F.

TABLE H-12
MAXIMUM ALLOWABLE SIZE OF CONTAINERS AND PORTABLE TANKS

Container Type	Flammable liquids			Combustible Liquids	
	Class IA	Class IB	Class IC	Class II	Class & III
Glass or approved plastic	1 pt.	1 qu.	1 gal.	1 gal.	1 gal.
Metal (other than DOTdrums)	1 gal.	5 gal.	5 gal.	5 gal.	5 gal.
Safety cans	2 gal.	5 gal.	5 gal.	5 gal.	5 gal.
Metal drums (DOT spec.)	60 gal.	60 gal.	60 gal.	60 gal.	60 gal.
Approved portable tanks	660 gal.	660 gal.	660 gal.	660 gal.	660 gal.

Container exemptions:

(i) Medicines, beverages, foodstuffs, cosmetics and other common consumer items, when packaged according to commonly accepted practices, shall be exempt from the requirements of (4)(a) and (b) of this section.

(c) Size. Flammable and combustible liquid containers shall be in accordance with Table H-12, except that glass or plastic containers of no more than 1-gallon capacity may be used for a Class IA or IB flammable liquid if:

(i) Such liquid either would be rendered unfit for its intended use by contact with metal or would excessively corrode a metal container so as to create a leakage hazard; and

(ii) The user's process either would require more than 1 pint of Class IA liquid or more than 1 quart of a Class IB liquid of a single assay lot to be used at one time, or would require the maintenance of an analytical standard liquid of a quality which is not met by the specified standards of liquids available, and the quantity of the analytical standard liquid required to be used in any one control process exceeds one-sixteenth the capacity of the container allowed under Table H-12 for the class of liquid; or

(iii) The containers are intended for direct export outside the United States.

(3) Design, construction, and capacity of storage cabinets.

(a) Maximum capacity. Not more than 60 gallons of Class I or Class II liquids, nor more than 120 gallons of Class III liquids may be stored in a storage cabinet.

(b) Fire resistance. Storage cabinets shall be designed and constructed to limit the internal temperature to not more than 325° F when subjected to a 10-minute fire test using the standard time-temperature curve as set forth in Standard Methods of Fire Tests of Building Construction and Materials, NFPA 251-1969. All joints and seams shall remain tight and the door shall remain securely closed during the fire test. Cabinets shall be labeled "Flammable—Keep fire away, " to meet specifications set forth in WAC 296-24-140.

(i) Metal cabinets constructed in the following manner shall be deemed to be in compliance. The bottom, top, door, and sides of cabinet shall be at least No. 18 gage sheet iron and double walled with 1 1/2-inch air space. Joints shall be riveted, welded or made tight by some equally effective means. The door shall be provided with a three-point lock, and the door sill shall be raised at least 2 inches above the bottom of the cabinet.

(ii) Wooden cabinets constructed in the following manner shall be deemed in compliance. The bottom, sides, and top shall be constructed of an approved grade of plywood at least 1 inch in thickness, which shall not break down or delaminate under fire conditions. All joints shall be rabbetted and shall be fastened in two directions with flathead woodscrews. When more than one door is used, there shall be a rabbetted overlap of not less than 1 inch. Hinges shall be mounted in such a manner as not to lose their holding capacity due to loosening or burning out of the screws when subjected to the fire test.

(4) Design and construction of inside storage rooms.

(a) Construction. Inside storage rooms shall be constructed to meet the required fire-resistive rating for their use. Such construction shall comply with the test specifications set forth in Standard Methods of Fire Tests of Building Construction and Materials, NFPA 251-1969. Where an automatic sprinkler system is provided, the system shall be designed and installed in an acceptable manner. Openings to other rooms or buildings shall be provided with noncombustible liquid-tight raised sills or ramps at least 4 inches in height, or the floor in the storage area shall be at least 4 inches below the surrounding floor. Openings shall be provided with approved self-closing fire doors. The room shall be liquid tight where the walls join the floor. A permissible alternate to the sill or ramp is an open-grated trench inside of the room which drains to a safe location. Where other portions of the building or other properties are exposed, windows shall be protected as set forth in the Standard for Fire Doors and Windows, NFPA No. 80-1968, for Class E or F openings. Wood at least 1 inch nominal thickness may be used for shelving, racks, dunnage, scuffboards, floor overlay, and similar installations.

(b) Rating and capacity. Storage in inside storage rooms shall comply with Table H-13.

TABLE H-13
STORAGE IN INSIDE ROOMS

Fire protection* provided	Fire resistance	Maximum size	Total allowable quantities (gals./sq. Ft./floor area)
Yes	2 hours	500 sq.ft.	10
No	2 hours	500 sq.ft.	4
Yes	1 hour	150 sq.ft.	5
No	1 hour	150 sq.ft.	2

*Fire protection system shall be sprinkler, water spray, carbon dioxide, or other system.

(c) Wiring. Electrical wiring and equipment within inside storage rooms used to store Class I liquids shall comply with the provisions of chapter 296-24 WAC Part L for Class I, Division 2 locations. For inside storage rooms used to store Class II and III liquids the pertinent provisions chapter 296-24 WAC Part L apply.

(d) Ventilation. Every inside storage room shall be provided with either a gravity or a mechanical exhaust ventilation system. Such system shall be designed to provide for a complete change of air within the room at least six times per hour. If a mechanical exhaust system is used, it shall be controlled by a switch located outside of the door. The ventilating equipment and any lighting fixtures shall be operated by the same switch. A pilot light shall be installed adjacent to the switch if Class I flammable liquids are dispensed within the room. Where gravity ventilation is provided, the fresh air intake, as well as the exhaust outlet from the room, shall be on the exterior of the building in which the room is located.

(e) Storage in inside storage rooms. In every inside storage room there shall be maintained one clear aisle at least 3 feet wide. Containers over 30 gallons capacity shall not be stacked one upon the other. Dispensing shall be by approved pump or self-closing faucet only.

(5) Storage inside building.

(a) Egress. Flammable or combustible liquids, including stock for sale, shall not be stored so as to limit use of exits, stairways, or areas normally used for the safe egress of people.

(b) Containers. The storage of flammable or combustible liquids in containers or portable tanks shall comply with (4)(c) through (e) of this section.

(c) Office occupancies. Storage shall be prohibited except that which is required for maintenance and operation of building and operation of equipment. Such storage shall be kept in closed metal containers stored in a storage cabinet or in safety cans or in an inside storage room not having a door that opens into that portion of the building used by the public.

(d) Mercantile occupancies and other retail stores.

(i) In rooms or areas accessible to the public, storage shall be limited to quantities needed for display and normal merchandising purposes but shall not exceed 2 gallons per square foot of gross floor area. The gross floor area used for computing the maximum quantity permitted shall be considered as that portion of the store actually being used for merchandising flammable and combustible liquids.

(ii) Where the aggregate quantity of additional stock exceeds 60 gallons of Class IA, or 120 gallons of Class IB, or 180 gallons of Class IC, or 240 gallons of Class II, or 500 gallons of Class III liquids, or any combination of Class I and Class II liquids exceeding 240 gallons, it shall be stored in a room or portion of the building that complies with the construction provisions for an inside storage room as prescribed in (4) of this section. For water miscible liquids, these quantities may be doubled.

(iii) Containers in a display area shall not be stacked more than 3 feet or two containers high, whichever is the greater, unless the stacking is done on fixed shelving or is otherwise satisfactorily secured.

(iv) Shelving shall be of stable construction, of sufficient depth and arrangement such that containers displayed thereon shall not be easily displaced.

(v) Leaking containers shall be removed to a storage room or taken to a safe location outside the building and the contents transferred to an undamaged container.

(e) General purpose public warehouses. Storage shall be in accordance with Table H-14 or H-15 and in buildings or in portions of such buildings cut off by standard firewalls. Material creating no fire exposure hazard to the flammable or combustible liquids may be stored in the same area.

TABLE H-14
INDOOR CONTAINER STORAGE

Class liquid	Storage level	Protected storage maximum per pile Gal.	Protected storage maximum per pile Ht.	Unprotected storage maximum per pile Gal.	Unprotected storage maximum per pile Ht.
IA	Ground and upper floors	2,750 (50)	3 ft. (1)	660 (12)	3 ft. (1)
	Basement	Not permitted		Not permitted	
IB	Ground and upper floors	5,500 (100)	6 ft. (2)	1, 375 (25)	3 ft. (1)
	Basement	Not permitted		Not permitted	
IC	Ground and upper floors	16,500 (300)	6 ft (2)	4, 125 (75)	3 ft. (1)
	Basement	Not permitted		Not permitted	
II	Ground and upper floors	16,500 (300)	9 ft. (3)	4, 125 (75)	9 ft. (3)
	Basement	5,500 (100)	9 ft. (3)	Not permitted	
III	Ground and upper floors	55,000 (1,000)	15 ft. (5)	13,750 (250)	12 ft. (4)
	Basement	8,250 (450)	9 ft. (3)	Not permitted	

Note 1: When 2 or more classes of materials are stored in a single pile, the maximum gallonage permitted in that pile shall be the smallest of the 2 or more separate maximum gallonages.

Note 2: Aisles shall be provided so that no container is more than 12 ft. from an aisle. Main aisles shall be at least 8 ft. wide and side aisles at least 4 ft. wide.

(Numbers in parentheses indicate corresponding number of 55-gal. drums.)

Note 3: Each pile shall be separated from each other by at least 4 ft.

TABLE H-15
INDOOR PORTABLE TANK STORAGE

Class liquid	Storage level	Protected storage maximum per pile Gal.	Protected storage maximum per pile Ht.	Unprotected storage maximum per pile Gal.	Unprotected storage maximum per pile Ht.
IA	Ground and upper floors	Not permitted		Not permitted	
	Basement	Not permitted		Not permitted	
IB	Ground and upper floors	20,000	7ft.	2,000	7 ft.
	Basement	Not permitted		Not permitted	
IC	Ground and upper floors	40,000	14 ft	5,500	7 ft.
	Basement	Not permitted		Not permitted	
II	Ground and upper floors	40,000	14 ft.	5,500	7 ft.
	Basement	20,000	7 ft.	Not permitted	
III	Ground and upper floors	60,000	14 ft.	22,000	7 ft.
	Basement	20,000	7 ft.	Not permitted	

Note 1: When 2 or more classes of materials are stored in a single pile, the maximum gallonage permitted in that pile shall be the smallest of the 2 or more separate maximum gallonages.

Note 2: Aisles shall be provided so that no portable tank is more than 12 ft. from an aisle. Main aisles shall be at least 8 ft. wide and side aisles at least 4 ft. wide.

Note 3: Each pile shall be separated from each other by at least 4 ft.

(f) Flammable and combustible liquid warehouses or storage buildings.

(i) If the storage building is located 50 feet or less from a building or line of adjoining property that may be built upon, the exposing wall shall be a blank wall having a fire-resistance rating of at least 2 hours.

(ii) The total quantity of liquids within a building shall not be restricted, but the arrangement of storage shall comply with Table H-14 or H-15.

(iii) Containers in piles shall be separated by pallets or dunnage where necessary to provide stability and to prevent excessive stress on container walls.

(iv) Portable tanks stored over one tier high shall be designed to nest securely, without dunnage and adequate materials handling equipment shall be available to handle tanks safely at the upper tier level.

(v) No pile shall be closer than 3 feet to the nearest beam, chord, girder, or other obstruction, and shall be 3 feet below sprinkler deflectors or discharge orifices of water spray, or other overhead fire protection systems.

(vi) Aisles of at least 3 feet wide shall be provided where necessary for reasons of access to doors, windows or standpipe connections.

(6) Storage outside buildings.

(a) General. Storage outside buildings shall be in accordance with Table H-16 or H-17, and (6)(b) and (d) of this section.

TABLE H-16
OUTDOOR CONTAINER STORAGE

1 Class	2 Maximum per pile (see note 1)	3 Distance between piles (see note 2)	4 Distance to property line that can be built upon (see notes 3 & 4)	5 Distance to street, alley, public way (see note 4)
	gal.	ft.	ft.	ft.
IA	1,100	5	20	10
IB	2,200	5	20	10
IC	4, 400	5	20	10
II	8,800	5	10	5
III	22,000	5	10	5

Note 1: When 2 or more classes of materials are stored in a single pile, the maximum gallonage in that pile shall be the smallest of the 2 or more separate gallonages.

Note 2: Within 200 ft. of each container, there shall be 12-ft. wide access way to permit approach of fire control apparatus.

Note 3: The distances listed apply to properties that have protection for exposures as defined. If there are exposures, and such protection for exposures does not exist, the distances in column 4 shall be doubled.

Note 4: When total quantity stored does not exceed 50 percent of maximum per pile, the distances in columns 4 and 5 may be reduced 50 percent, but not less than 3 ft.

(b) Maximum storage. A maximum of 1, 100 gallons of flammable or combustible liquids may be located adjacent to buildings located on the same premises and under the same management provided the provisions of (6)(b)(i) and (ii) are complied with.

(i) The building shall be a one-story building devoted principally to the handling and storing of flammable or com-

bustible liquids or the building shall have 2 hour fire-resistive exterior walls having no opening within 10 feet of such storage.

(ii) Where quantity stored exceeds 1, 100 gallons, or provisions of (6)(b)(i) cannot be met, a minimum distance of 10 feet between buildings and nearest container of flammable or combustible liquid shall be maintained.

TABLE H-17
OUTDOOR PORTABLE TANK STORAGE

1 Class	2 Maximum per pile	3 Distance between piles	4 Distance to property line that can be built upon	5 Distance to street, alley, public way
	gal.	ft.	ft.	ft.
IA	2,200	5	20	10
IB	4,400	5	20	10
IC	8,800	5	20	10
II	17,600	5	10	5
III	44,000	5	10	5

Note 1: When 2 or more classes of materials are stored in a single pile, the maximum gallonage in that pile shall be the smallest of the 2 or more separate gallonages.

Note 2: Within 200 ft. of each portable tank, there shall be a 12-ft. wide access way to permit approach of fire control apparatus.

Note 3: The distances listed apply to properties that have protection for exposures as defined. If there are exposures, and such protection for exposures does not exist, the distances in column 4 shall be doubled.

Note 4: When total quantity stored does not exceed 50 percent of maximum per pile, the distances in columns 4 and 5 may be reduced 50 percent, but not less than 3 ft.

(c) Spill containment. The storage area shall be graded in a manner to divert possible spills away from buildings or other exposures or shall be surrounded by a curb at least 6 inches high. When curbs are used, provisions shall be made for draining of accumulations of ground or rain water or spills of flammable or combustible liquids. Drains shall terminate at a safe location and shall be accessible to operation under fire conditions.

(d) Security. The storage area shall be protected against tampering or trespassers where necessary and shall be kept free of weeds, debris and other combustible material not necessary to the storage.

(7) Fire control.

(a) Extinguishers. Suitable fire control devices, such as small hose or portable fire extinguishers, shall be available at locations where flammable or combustible liquids are stored.

(i) At least one portable fire extinguisher having a rating of not less than 12-B units shall be located outside of, but not more than 10 feet from, the door opening into any room used for storage.

(ii) At least one portable fire extinguisher having a rating of not less than 12-B units must be located not less than 10 feet, nor more than 25 feet, from any Class I or Class II liquid storage area located outside of a storage room but inside a building.

(b) Sprinklers. When sprinklers are provided, they shall be installed in accordance with chapter 296-24 WAC, Part G-3.

(c) Open flames and smoking. Open flames and smoking shall not be permitted in flammable or combustible liquid storage areas.

(d) Water reactive materials. Materials which will react with water shall not be stored in the same room with flammable or combustible liquids.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-33009, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-33009, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-33009, filed 4/19/85; Order 76-6, § 296-24-33009, filed 3/1/76; Order 74-27, § 296-24-33009, filed 5/7/74; Order 73-5, § 296-24-33009, filed 5/9/73 and Order 73-4, § 296-24-33009, filed 5/7/73.]

WAC 296-24-33011 Industrial plants. (1) Scope.

(a) Application. This section shall apply to those industrial plants where:

(i) The use of flammable or combustible liquids is incidental to the principal business, or

(ii) Where flammable or combustible liquids are handled or used only in unit physical operations such as mixing, drying, evaporating, filtering, distillation, and similar operations which do not involve chemical reaction. This section shall not apply to chemical plants, refineries or distilleries.

(b) Exceptions. Where portions of such plants involve chemical reactions such as oxidation, reduction, halogenation, hydrogenation, alkylation, polymerization, and other chemical processes, those portions of the plant shall be in accordance with WAC 296-24-33017.

(2) Incidental storage or use of flammable and combustible liquids.

(a) Application. This shall be applicable to those portions of an industrial plant where the use and handling of flammable or combustible liquids is only incidental to the principal business, such as automobile assembly, construction of electronic equipment, furniture manufacturing, or other similar activities.

(b) Containers. Flammable or combustible liquids shall be stored in tanks or closed containers.

(i) Except as provided in (b)(ii) and (iii) of this subsection all storage shall comply with WAC 296-24-33009 (3) or (4).

(A) When the only operation involved is the storage of flammables in containers or tanks that are closed and remain closed throughout the storage, WAC 296-24-33009(5) and tables H-14 and H-15 will apply.

(B) When the procedure involved is mixing, transferring, or other exposure of liquids to vaporization through operational procedures in which containers or tanks do not remain closed in the storage area, WAC 296-24-33009(4) and table H-13 shall be used to determine permissible quantities.

(ii) The quantity of liquid that may be located outside of an inside storage room or storage cabinet in a building or in any one fire area of a building shall not exceed:

(A) Twenty-five gallons of Class IA liquids in containers.

(B) One hundred twenty gallons of Class IB, IC, II, or III liquids in containers.

(C) Six hundred sixty gallons of Class IB, IC, II, or III liquids in a single portable tank.

(iii) Where large quantities of flammable or combustible liquids are necessary, storage may be in tanks which shall comply with the applicable requirements of WAC 296-24-33005.

(c) Separation and protection. Areas in which flammable or combustible liquids are transferred from one tank or container to another container shall be separated from other operations in the building by adequate distance or by construction having adequate fire resistance. Drainage or other means shall be provided to control spills. Adequate natural or mechanical ventilation shall be provided.

(d) Handling liquids at point of final use.

(i) Flammable liquids shall be kept in covered containers when not actually in use.

(ii) Where flammable or combustible liquids are used or handled, except in closed containers, means shall be provided to dispose promptly and safely of leakage or spills.

(iii) Class I liquids may be used only where there are no open flames or other sources of ignition within the possible path of vapor travel.

(iv) Flammable or combustible liquids shall be drawn from or transferred into vessels, containers, or portable tanks within a building only through a closed piping system, from safety cans, by means of a device drawing through the top, or from a container or portable tanks by gravity through an approved self-closing valve. Transferring by means of air pressure on the container or portable tanks shall be prohibited.

(3) Unit physical operations.

(a) Application. This subsection (3) shall be applicable in those portions of industrial plants where flammable or combustible liquids are handled or used in unit physical operations such as mixing, drying, evaporating, filtering, distillation, and similar operations which do not involve chemical change. Examples are plants compounding cosmetics, pharmaceuticals, solvents, cleaning fluids, insecticides, and similar types of activities.

(b) Location. Industrial plants shall be located so that each building or unit of equipment is accessible from at least one side for fire fighting and fire control purposes. Buildings shall be located with respect to lines of adjoining property which may be built upon as set forth in WAC 296-24-33017 (2)(a) and (b) except that the blank wall referred to in WAC 296-24-33017 (2)(b) shall have a fire resistance rating of at least two hours.

(c) Chemical processes. Areas where unstable liquids are handled or small scale unit chemical processes are carried on shall be separated from the remainder of the plant by a fire wall of two-hour minimum fire resistance rating.

(d) Drainage.

(i) Emergency drainage systems shall be provided to direct flammable or combustible liquid leakage and fire protection water to a safe location. This may require curbs, scuppers, or special drainage systems to control the spread of fire; see WAC 296-24-33005 (2)(g)(ii).

(ii) Emergency drainage systems, if connected to public sewers or discharged into public waterways, shall be equipped with traps or separators.

(iii) The industrial plant shall be designed and operated to prevent the normal discharge of flammable or combustible liquids into public waterways, public sewers, or adjoining property.

(e) Ventilation.

(i) Areas as defined in subsection (1)(a) of this section using Class I liquids shall be ventilated at a rate of not less than one cubic foot per minute per square foot of solid floor area. This shall be accomplished by natural or mechanical ventilation with discharge or exhaust to a safe location outside of the building. Provision shall be made for introduction of makeup air in such a manner as not to short circuit the ventilation. Ventilation shall be arranged to include all floor areas or pits where flammable vapors may collect.

(ii) Equipment used in a building and the ventilation of the building shall be designed so as to limit flammable vapor-air mixtures under normal operating conditions to the interior of equipment, and to not more than five feet from equipment which exposes Class I liquids to the air. Examples of such equipment are dispensing stations, open centrifuges, plate and frame filters, open vacuum filters, and surfaces of open equipment.

(f) Storage and handling. The storage, transfer, and handling of liquid shall comply with WAC 296-24-33017(4).

(4) Tank vehicle and tank car loading and unloading.

Tank vehicle and tank car loading or unloading facilities shall be separated from aboveground tanks, warehouses, other plant buildings or nearest line of adjoining property which may be built upon by a distance of twenty-five feet for Class I liquids and fifteen feet for Class II and Class III liquids measured from the nearest position of any fill stem. Buildings for pumps or shelters for personnel may be a part of the facility. Operations of the facility shall comply with the appropriate portions of WAC 296-24-33013(3).

(5) Fire control.

(a) Portable and special equipment. Portable fire extinguishment and control equipment shall be provided in such quantities and types as are needed for the special hazards of operation and storage.

(b) Water supply. Water shall be available in volume and at adequate pressure to supply water hose streams, foam-producing equipment, automatic sprinklers, or water spray systems as the need is indicated by the special hazards of operation, dispensing and storage.

(c) Special extinguishers. Special extinguishing equipment such as that utilizing foam, inert gas, or dry chemical shall be provided as the need is indicated by the special hazards of operation dispensing and storage.

(d) Special hazards. Where the need is indicated by special hazards of operation, flammable or combustible liquid processing equipment, major piping, and supporting steel shall be protected by approved water spray systems, deluge systems, approved fire-resistant coatings, insulation, or any combination of these.

(e) Maintenance. All plant fire protection facilities shall be adequately maintained and periodically inspected and tested to make sure they are always in satisfactory operating condition, and they will serve their purpose in time of emergency.

(6) Sources of ignition.

(a) General. Adequate precautions shall be taken to prevent the ignition of flammable vapors. Sources of ignition

include but are not limited to open flames; lightning; smoking; cutting and welding; hot surfaces; frictional heat; static, electrical and mechanical sparks; spontaneous ignition, including heat-producing chemical reactions; and radiant heat.

(b) Grounding. Class I liquids shall not be dispensed into containers unless the nozzle and container are electrically interconnected. Where the metallic floorplate on which the container stands while filling is electrically connected to the fill stem or where the fill stem is bonded to the container during filling operations by means of a bond wire, the provisions of these standards shall be deemed to have been complied with.

(7) Electrical.

(a) All electrical wiring and equipment shall be installed according to chapter 296-24 WAC Part L.

(b) Locations where flammable vapor-air mixtures may exist under normal operations shall be classified Class I, Division 1 according to the requirements of chapter 296-24 WAC Part L. For those pieces of equipment installed in accordance with the requirements of subsection (3)(e)(ii) of this section, the Division 1 area shall extend five feet in all directions from all points of vapor liberation. All areas within pits shall be classified Division 1 if any part of the pit is within a Division 1 or 2 classified area, unless the pit is provided with mechanical ventilation.

(c) Locations where flammable vapor-air mixtures may exist under abnormal conditions and for a distance beyond Division 1 locations shall be classified Division 2 according to the requirements of chapter 296-24 WAC Part L. These locations include an area within twenty feet horizontally, three feet vertically beyond a Division 1 area, and up to three feet above floor or grade level within twenty-five feet, if indoors, or ten feet if outdoors, from any pump, bleeder, withdrawal fitting, meter, or similar device handling Class I liquids. Pits provided with adequate mechanical ventilation within a Division 1 or 2 area shall be classified Division 2. If Class II or Class III liquids only are handled, then ordinary electrical equipment is satisfactory though care shall be used in locating electrical apparatus to prevent hot metal from falling into open equipment.

(d) Where the provisions of (a), (b), and (c) of this subsection require the installation of electrical equipment suitable for Class I, Division 1 or Division 2 locations, ordinary electrical equipment including switchgear may be used if installed in a room or enclosure which is maintained under positive pressure with respect to the hazardous area. Ventilation makeup air shall be uncontaminated by flammable vapors.

(8) Repairs to equipment. Hot work, such as welding or cutting operations, use of spark-producing power tools, and chipping operations shall be permitted only under supervision of an individual in responsible charge. The individual in responsible charge shall make an inspection of the area to be sure that it is safe for the work to be done and that safe procedures will be followed for the work specified.

(9) Housekeeping.

(a) General. Maintenance and operating practices shall be in accordance with established procedures which will tend to control leakage and prevent the accidental escape of flammable or combustible liquids. Spills shall be cleaned up promptly.

(b) Access. Adequate aisles shall be maintained for unobstructed movement of personnel and so that fire protection equipment can be brought to bear on any part of flammable or combustible liquid storage, use, or any unit physical operation.

(c) Waste and residue. Combustible waste material and residues in a building or unit operating area shall be kept to a minimum, stored in covered metal receptacles and disposed of daily.

(d) Clear zone. Ground area around buildings and unit operating areas shall be kept free of weeds, trash, or other unnecessary combustible materials.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-33011, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-33011, filed 11/22/91, effective 12/24/91; 89-11-035 (Order 89-03), § 296-24-33011, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-33011, filed 4/19/85; Order 76-6, § 296-24-33011, filed 3/1/76; Order 73-5, § 296-24-33011, filed 5/9/73 and Order 73-4, § 296-24-33011, filed 5/7/73.]

WAC 296-24-33013 Bulk plants. (1) Storage.

(a) Class I liquids. Class I liquids shall be stored in closed containers, or in storage tanks above ground outside of buildings, or underground in accordance with WAC 296-24-33005.

(b) Class II and III liquids. Class II and Class III liquids shall be stored in containers, or in tanks within buildings or above ground outside of buildings, or underground in accordance with WAC 296-24-33005.

(c) Piling containers. Containers of flammable or combustible liquids when piled one upon the other shall be separated by dunnage sufficient to provide stability and to prevent excessive stress on container walls. The height of the pile shall be consistent with the stability and strength of containers.

(2) Buildings.

(a) Exits. Rooms in which flammable or combustible liquids are stored or handled by pumps shall have exit facilities arranged to prevent occupants from being trapped in the event of fire.

(b) Heating. Rooms in which Class I liquids are stored or handled shall be heated only by means not constituting a source of ignition, such as steam or hot water. Rooms containing heating appliances involving sources of ignition shall be located and arranged to prevent entry of flammable vapors.

(c) Ventilation.

(i) Ventilation shall be provided for all rooms, buildings, or enclosures in which Class I liquids are pumped or dispensed. Design of ventilation systems shall take into account the relatively high specific gravity of the vapors. Ventilation may be provided by adequate openings in outside walls at floor level unobstructed except by louvers or course screens. Where natural ventilation is inadequate, mechanical ventilation shall be provided.

(ii) Class I liquids shall not be stored or handled within a building having a basement or pit into which flammable vapors may travel, unless such area is provided with ventila-

tion designed to prevent the accumulation of flammable vapors therein.

(iii) Containers of Class I liquids shall not be drawn from or filled within buildings unless provision is made to prevent the accumulation of flammable vapors in hazardous concentrations. Where mechanical ventilation is required, it shall be kept in operation while flammable liquids are being handled.

(3) Loading and unloading facilities.

(a) Separation. Tank vehicle and tank car loading or unloading facilities shall be separated from aboveground tanks, warehouses, other plant buildings or nearest line of adjoining property that may be built upon by a distance of 25 feet for Class I liquids and 15 feet for Class II and Class III liquids measured from the nearest position of any fill spout. Buildings for pumps or shelters for personnel may be a part of the facility.

(b) Class restriction. Equipment such as piping, pumps, and meters used for the transfer of Class I liquids between storage tanks and the fill stem of the loading rack shall not be used for the transfer of Class II or Class III liquids.

(c) Valves. Valves used for the final control for filling tank vehicles shall be of the self-closing type and manually held open except where automatic means are provided for shutting off the flow when the vehicle is full or after filling of a preset amount.

(d) Static protection.

(i) Bonding facilities for protection against static sparks during the loading of tank vehicles through open domes shall be provided:

(A) Where Class I liquids are loaded, or

(B) Where Class II or Class III liquids are loaded into vehicles which may contain vapors from previous cargoes of Class I liquids.

(ii) Protection as required in (3)(d)(i) of this section shall consist of a metallic bond wire permanently electrically connected to the fill stem or to some part of the rack structure in electrical contact with the fill stem. The free end of such wire shall be provided with a clamp or equivalent device for convenient attachment to some metallic part in electrical contact with the cargo tank of the tank vehicle.

(iii) Such bonding connection shall be made fast to the vehicle or tank before dome covers are raised and shall remain in place until filling is completed and all dome covers have been closed and secured.

(iv) Bonding as specified in (3)(d)(i), (ii) and (iii) of this section is not required:

(A) Where vehicles are loaded exclusively with products not having a static accumulating tendency, such as asphalt, most crude oils, residual oils, and water soluble liquids;

(B) Where no Class I liquids are handled at the loading facility and the tank vehicles loaded are used exclusively for Class II and Class III liquids; and

(C) Where vehicles are loaded or unloaded through closed bottom or top connections.

(v) Filling through open domes into the tanks of tank vehicles or tank cars, that contain vapor-air mixtures within the flammable range or where the liquid being filled can form such a mixture, shall be by means of a downspout which extends near the bottom of the tank. This precaution is not required when loading liquids which are nonaccumulators of static charges.

(e) Stray currents. Tank car loading facilities where Class I liquids are loaded through open domes shall be protected against stray currents by bonding the pipe to at least one rail and to the rack structure if of metal. Multiple lines entering the rack area shall be electrically bonded together. In addition, in areas where excessive stray currents are known to exist, all pipe entering the rack area shall be provided with insulating sections to electrically isolate the rack piping from the pipelines. No bonding between the tank car and the rack or piping is required during either loading or unloading of Class II or III liquids.

(f) Container filling facilities. Class I liquids shall not be dispensed into containers unless the nozzle and container are electrically interconnected. Where the metallic floorplate on which the container stands while filling is electrically connected to the fill stem or where the fill stem is bonded to the container during filling operations by means of a bond wire, the provisions of these standards shall be deemed to have been complied with.

(4) Wharves.

(a) Definition, application. The term wharf shall mean any wharf, pier, bulkhead, or other structure over or contiguous to navigable water used in conjunction with a bulk plant, the primary function of which is the transfer of flammable or combustible liquid cargo in bulk between the bulk plant and any tank vessel, ship, barge, lighter boat, or other mobile floating craft; and this subparagraph shall apply to all such installations except marine service stations as covered in WAC 296-24-33015.

(b) Package cargo. Package cargo of flammable and combustible liquids, including full and empty drums, bulk fuel, and stores may be handled over a wharf and at such times and places as may be agreed upon by the wharf superintendent and the senior deck officer on duty.

(c) Location. Wharves at which flammable or combustible liquid cargoes are to be transferred in bulk quantities to or from tank vessels shall be at least 100 feet from any bridge over a navigable waterway, or from an entrance to or superstructure of any vehicular or railroad tunnel under a waterway. The termination of the wharf loading or unloading fixed piping shall be at least 200 feet from a bridge or from an entrance to or superstructure of a tunnel.

(d) Design and construction. Substructure and deck shall be substantially designed for the use intended. Deck may employ any material which will afford the desired combination of flexibility, resistance to shock, durability, strength, and fire resistance. Heavy timber construction is acceptable.

(e) Tanks. Tanks used exclusively for ballast water or Class II or Class III liquids may be installed on suitably designed wharves.

(f) Pumps. Loading pumps capable of building up pressures in excess of the safe working pressure of cargo hose or loading arms shall be provided with bypasses, relief valves, or other arrangement to protect the loading facilities against excessive pressure. Relief devices shall be tested at not more than yearly intervals to determine that they function satisfactorily at the pressure at which they are set.

(g) Hoses and couplings. All pressure hoses and couplings shall be inspected at intervals appropriate to the service. The hose and couplings shall be tested with the hose extended and using the "inservice maximum operating pressures." Any hose showing material deteriorations, signs of leakage, or weakness in its carcass or at the couplings shall be withdrawn from service and repaired or discarded.

(h) Piping and fittings. Piping, valves, and fittings shall be in accordance with WAC 296-24-33007 with the following exceptions and additions:

(i) Flexibility of piping shall be assured by appropriate layout and arrangement of piping supports so that motion of the wharf structure resulting from wave action, currents, tides, or the mooring of vessels will not subject the pipe to repeated strain beyond the elastic limit.

(ii) Pipe joints depending upon the friction characteristics of combustible materials or grooving of pipe ends for mechanical continuity of piping shall not be used.

(iii) Swivel joints may be used in piping to which hoses are connected, and for articulated swivel-joint transfer systems, provided that the design is such that the mechanical strength of joint will not be impaired if the packing material should fail, as by exposure to fire.

(iv) Piping systems shall contain a sufficient number of valves to operate the system properly and to control the flow of liquid in normal operation and in the event of physical damage.

(v) In addition to the requirements of (4)(h)(iv), each line conveying flammable liquids leading to a wharf shall be provided with a readily accessible block valve located on shore near the approach to the wharf and outside of any diked area. Where more than one line is involved, the valves shall be grouped in one location.

(vi) Means of easy access shall be provided for cargo line valves located below the wharf deck.

(vii) Pipelines on flammable or combustible liquids wharves shall be adequately bonded and grounded. If excessive stray currents are encountered, insulating points shall be installed. Bonding and grounding connections on all pipelines shall be located on wharfside of hose-riser insulating flanges, if used, and shall be accessible for inspection.

(viii) Hose or articulated swivel-joint pipe connections used for cargo transfer shall be capable of accommodating the combined effects of change in draft and maximum tidal range, and mooring lines shall be kept adjusted to prevent the surge of the vessel from placing stress on the cargo transfer system.

(ix) Hose shall be supported so as to avoid kinking and damage from chafing.

(i) Fire protection. Suitable portable fire extinguishers with a rating of not less than 12-BC shall be located with 75 feet of those portions of the facility where fires are likely to occur, such as hose connections, pumps, and separator tanks.

(i) Where piped water is available, ready-connected fire hose in size appropriate for the water supply shall be provided so that manifolds where connections are made and broken can be reached by at least one hose stream.

(ii) Material shall not be placed on wharves in such a manner as to obstruct access to fire fighting equipment, or important pipeline control valves.

(iii) Where the wharf is accessible to vehicle traffic, an unobstructed roadway to the shore end of the wharf shall be maintained for access of fire fighting apparatus.

(j) Operations control. Loading or discharging shall not commence until the wharf superintendent and officer in charge of the tank vessel agree that the tank vessel is properly moored and all connections are properly made. Mechanical work shall not be performed on the wharf during cargo transfer, except under special authorization by a delegated person or the delegated persons authorized representative based on a review of the area involved, methods to be employed, and precaution necessary.

(5) Electrical equipment.

(a) Application. This subsection shall apply to areas where Class I liquids are stored or handled. For areas where Class II or Class III liquids only are stored or handled, the electrical equipment may be installed according to chapter 296-24 WAC Part L for ordinary locations.

(b) Conformance. All electrical equipment and wiring shall be of a type specified by and shall be installed according to chapter 296-24 WAC Part L.

(c) Classification. So far as it applies Table H-18 shall be used to delineate and classify hazardous areas for the purpose of installation of electrical equipment under normal circumstances. In Table H-18 a classified area shall not extend beyond an unpierced wall, roof, or other solid partition. The area classifications listed shall be based on the premise that the installation meets the applicable requirements of this section in all respects.

TABLE H-18
ELECTRICAL EQUIPMENT HAZARDOUS AREAS—BULK PLANTS

Location	Class I Group D division	Extent of classified area
Tank vehicle and tank car:[1] Loading through open dome	1	Within 3 feet of edge of dome, extending in all directions.
	2	Area between 3 feet and 5 feet from edge of dome, extending in all directions.
Loading through bottom connections with atmospheric venting	1	Within 3 feet of point of venting to atmosphere, extending in all directions.
	2	Area between 3 feet and 5 feet from point of venting to atmosphere, extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from point of loading connection.

Location	Class I Group D division	Extent of classified area
Loading through closed dome with atmospheric venting	1	Within 3 feet of open end of vent, extending in all directions.
	2	Area between 3 feet and 5 feet from open end of vent, extending in all directions. Also within 3 feet of edge of dome, extending in all directions.
Loading through closed dome with vapor recovery	2	Within 3 feet of point of connection of both fill and vapor lines, extending in all directions.
Bottom loading with vapor recovery or any bottom unloading	2	Within 3 feet of point of connections extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from point of connection.
Drum and container filling: Outdoors, or indoors with adequate ventilation	1	Within 3 feet of vent and fill opening, extending in all directions.
	2	Area between 3 feet and 5 feet from vent or fill opening, extending in all directions. Also up to 18 inches above floor or grade level within a horizontal radius of 10 feet from vent or fill opening.
Outdoors, or indoors with adequate ventilation	1	Within 3 feet of vent and fill opening, extending in all directions.
	2	Area between 3 feet and 5 feet from vent or fill opening, extending in all directions. Also up to 18 inches above floor or grade level within a horizontal radius of 10 feet from vent or fill opening.
Tank—Aboveground: Shell, ends, or roof and dike area	2	Within 10 feet from shell, ends, or roof of tank, area inside dikes to level of top of dike.
Vent	1	Within 5 feet of open end of vent, extending in all directions.
	2	Area between 5 feet and 10 feet from open end of vent, extending in all directions.
Floating roof	1	Area above the roof and within the shell.
Pits: Without mechanical ventilation	1	Entire area within pit if any part is within a Division 1 or 2 classified area.
With mechanical ventilation	2	Entire area within pit if any part is within a Division 1 or 2 classified area.
Containing valves, fittings or piping, and not within a Division 1 or 2 classified area	2	Entire pit.
Pumps, bleeders, withdrawal fittings, meters and similar devices: Indoors	2	Within 5 feet of any edge of such devices, extending in all directions. Also up to 3 feet above floor or grade level within 25 feet horizontally from any edge of such devices.
Outdoors	2	Within 3 feet of any edge of such devices, extending in all directions. Also up to 18 inches above grade level within 10 feet horizontally from any edge of such devices.
Storage and repair garage for tank vehicles	1	All pits or spaces below floor level.
	2	Area up to 18 inches above floor or grade level for entire storage or repair garage.

Location	Class I Group D division	Extent of classified area
Drainage ditches, separators, impounding basins	2	Area up to 18 inches above ditch, separator or basin. Also up to 18 inches above grade within 15 feet horizontally from any edge.
Garages for other than tank vehicles	Ordinary	If there is any opening to these rooms within the extent of an outdoor classified area, the entire room shall be classified the same as the area classification at the point of the opening.
Outdoor drum storage	Ordinary	
Indoor warehousing where there is no flammable liquid transfer	Ordinary	If there is any opening to these rooms within the extent of an indoor classified area, the room shall be classified the same as if the wall, curb or partition did not exist.
Office and rest rooms	Ordinary	

[1]When classifying the extent of the area, consideration shall be given to the fact that tank cars or tank vehicles may be spotted at varying points. Therefore, the extremities of the loading or unloading positions shall be used.

(6) Sources of ignition. Class I liquids shall not be handled, drawn, or dispensed where flammable vapors may reach a source of ignition. Smoking shall be prohibited except in designated localities. "No smoking" signs shall be conspicuously posted where hazard from flammable liquid vapors is normally present.

(7) Drainage and waste disposal. Provision shall be made to prevent flammable or combustible liquids which may be spilled at loading or unloading points from entering public sewers and drainage systems, or natural waterways. Connection to such sewers, drains, or waterways by which flammable or combustible liquids might enter shall be provided with separator boxes or other approved means whereby such entry is precluded. Crankcase drainings and flammable or combustible liquids shall not be dumped into sewers, but shall be stored in tanks or tight drums outside of any building until removed from the premises.

(8) Fire control. Suitable fire-control devices, such as small hose or portable fire extinguishers, shall be available to locations where fires are likely to occur. Additional fire-control equipment may be required where a tank of more than 50,000 gallons individual capacity contains Class I liquids and where an unusual exposure hazard exists from surrounding property. Such additional fire-control equipment shall be sufficient to extinguish a fire in the largest tank. The design and amount of such equipment shall be in accordance with approved engineering standards.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-33013, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-33013, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-33013, filed 4/19/85; Order 76-6, § 296-24-33013, filed 3/1/76; Order 73-5, § 296-24-33013, filed 5/9/73 and Order 73-4, § 296-24-33013, filed 5/7/73.]

WAC 296-24-33015 Service stations. (1) Storage and handling.

(a) General provisions.

(i) Liquids shall be stored in approved closed containers not exceeding 60 gallons capacity, in tanks located underground, in tanks in special enclosures as described in (b) of this subsection, or in aboveground tanks as provided for in (3)(b)(i), (ii), (iii) and (iv) of this section.

(ii) Aboveground tanks, located in an adjoining bulk plant, may be connected by piping to service station underground tanks if, in addition to valves at aboveground tanks, a valve is also installed within control of service station personnel.

(iii) Apparatus dispensing Class I liquids into the fuel tanks of motor vehicles of the public shall not be located at a bulk plant unless separated by a fence or similar barrier from the area in which bulk operations are conducted.

(iv) The provisions of subsection (1) of this section shall not prohibit the dispensing of flammable liquids in the open from a tank vehicle to a motor vehicle. Such dispensing shall be permitted provided:

(A) The tank vehicle complies with the requirements covered in the Standard on Tank Vehicles for Flammable Liquids, NFPA 385-1966.

(B) The dispensing is done on premises not open to the public.

(C) The dispensing hose does not exceed 50 feet in length.

(D) The dispensing nozzle is a listed automatic-closing type without a latch-open device.

(vi) Class I liquids shall not be stored or handled within a building having a basement or pit into which flammable vapors may travel, unless such area is provided with ventilation designed to prevent the accumulation of flammable vapors therein.

(vii) Accurate inventory records shall be maintained and reconciled on all Class I liquid storage tanks for possible indication of leakage from tanks or piping.

(b) Special enclosures.

(i) When installation of tanks in accordance with WAC 296-24-33005(3) is impractical because of property or building limitations, tanks for flammable or combustible liquids may be installed in buildings if properly enclosed.

(ii) The enclosure shall be substantially liquid and vapor-tight without backfill. Sides, top, and bottom of the enclosure shall be of reinforced concrete at least 6 inches thick, with openings for inspection through the top only. Tank connections shall be so piped or closed that neither vapors nor liquid can escape into the enclosed space. Means shall be provided whereby portable equipment may be employed to discharge

to the outside any liquid or vapors which might accumulate should leakage occur.

(iii) At automotive service stations provided in connection with tenant or customer parking facilities at or below grade level in large buildings of commercial, mercantile, or residential occupancy, tanks containing Class I liquids, installed of necessity in accordance with subsection (1)(b)(ii) of this section, shall not exceed 6,000 gallons individual or 18,000 gallons aggregate capacity.

(c) Inside buildings.

(i) Except where stored in tanks as provided in subsection (1)(b) of this section, no Class I liquids shall be stored within any service station building except in closed containers of aggregate capacity not exceeding 60 gallons. One container not exceeding 60 gallons capacity equipped with an approved pump is permitted.

(ii) Class I liquids may be transferred from one container to another in lubrication or service rooms of a service station building provided the electrical installation complies with Table H-19 and provided that any heating equipment complies with subsection (5) of this section.

(iii) Class II and Class III liquids may be stored and dispensed inside service station buildings from tanks of not more than 120 gallons capacity each.

(d) Labeling. No sale or purchase of any Class I, II, or III liquids shall be made in containers unless such containers are clearly marked with the name of the product contained therein.

(e) Dispensing into portable containers. No delivery of any Class I liquids shall be made into portable containers unless the container is constructed of metal, has a tight closure with screwed or spring cover, and is fitted with a spout or so designed that the contents can be poured without spilling.

(2) Dispensing systems.

(a) Location. Dispensing devices at automotive service stations shall be so located that all parts of the vehicle being served will be on the premises of the service station.

(b) Inside location. Approved dispensing units may be located inside of buildings. The dispensing area shall be separated from other areas in an approved manner. The dispensing unit and its piping shall be mounted either on a concrete island or protected against collision damage by suitable means and shall be located in a position where it cannot be struck by a vehicle descending a ramp or other slope out of control. The dispensing area shall be provided with an approved mechanical or gravity ventilation system. When dispensing units are located below grade, only approved mechanical ventilation shall be used and the entire dispensing area shall be protected by an approved automatic sprinkler system. Ventilating systems shall be electrically interlocked with gasoline dispensing units so that the dispensing units cannot be operated unless the ventilating fan motors are energized.

(c) Emergency power cutoff. A clearly identified and easily accessible switch(es) or a circuit breaker(s) shall be provided at a location remote from dispensing devices, including remote pumping systems, to shut off the power to all dispensing devices in the event of an emergency.

(d) Dispensing units.

(i) Class I liquids shall be transferred from tanks by means of fixed pumps so designed and equipped as to allow control of the flow and to prevent leakage or accidental discharge.

(ii) Only listed devices may be used for dispensing Class I liquids. No such device may be used if it shows evidence of having been dismantled.

(iii) Every dispensing device for Class I liquids installed after December 31, 1978, shall contain evidence of listing so placed that any attempt to dismantle the device will result in damage to such evidence, visible without disassembly or dismounting of the nozzle.

(iv) Class I liquids shall not be dispensed by pressure from drums, barrels, and similar containers. Approved pumps taking suction through the top of the container or approved self-closing faucets shall be used.

(v) The dispensing units, except those attached to containers, shall be mounted either on a concrete island or protected against collision damage by suitable means.

(e) Remote pumping systems.

(i) This subdivision shall apply to systems for dispensing Class I liquids where such liquids are transferred from storage to individual or multiple dispensing units by pumps located elsewhere than at the dispensing units.

(ii) Pumps shall be designed or equipped so that no part of the system will be subjected to pressures above its allowable working pressure. Pumps installed above grade, outside of buildings, shall be located not less than 10 feet from lines of adjoining property which is/or may be built upon, and not less than 5 feet from any building opening. When an outside pump location is impractical, pumps may be installed inside of buildings, as provided for dispensers in (b) of this subsection, or in pits as provided in (e)(iii) of this subsection. Pumps shall be substantially anchored and protected against physical damage by vehicles.

(iii) Pits for subsurface pumps or piping manifolds of submersible pumps shall withstand the external forces to which they may be subjected without damage to the pump, tank, or piping. The pit shall be no larger than necessary for inspection and maintenance and shall be provided with a fitted cover.

(iv) A control shall be provided that will permit the pump to operate only when a dispensing nozzle is removed from its bracket on the dispensing unit and the switch on this dispensing unit is manually actuated. This control shall also stop the pump when all nozzles have been returned to their brackets.

(v) An approved impact valve, incorporating a fusible link, designed to close automatically in the event of severe impact or fire exposure shall be properly installed in the dispensing supply line at the base of each individual dispensing device.

(vi) Testing. After the completion of the installation, including any paving, that section of the pressure piping system between the pump discharge and the connection for the dispensing facility shall be tested for at least 30 minutes at the maximum operating pressure of the system. Such tests shall be repeated at 5-year intervals thereafter.

(f) Delivery nozzles.

(i) A listed manual or automatic-closing type hose nozzle valve shall be provided on dispensers used for the dispensing of Class I liquids.

(ii) Manual-closing type valves shall be held open manually during dispensing. Automatic-closing type valves may be used in conjunction with an approved latch-open device.

(g) Special type dispensers.

(i) Emergency controls shall be installed at an acceptable location, but controls shall not be more than 100 feet from dispensers.

(ii) Instructions for the operation of dispensers shall be conspicuously posted.

(3) Marine service stations.

(a) Dispensing.

(i) The dispensing area shall be located away from other structures so as to provide room for safe ingress and egress of craft to be fueled. Dispensing units shall in all cases be at least 20 feet from any activity involving fixed sources of ignition.

(ii) Dispensing shall be by approved dispensing units with or without integral pumps and may be located on open piers, wharves, or floating docks or on shore or on piers of the solid fill type.

(iii) Dispensing nozzles shall be automatic-closing without a hold-open latch.

(b) Tanks and pumps.

(i) Tanks, and pumps not integral with the dispensing unit, shall be on shore or on a pier of the solid fill type, except as provided below.

(ii) Where shore location would require excessively long supply lines to dispensers, tanks may be installed on a pier provided that applicable portions of WAC 296-24-33005 relative to spacing, diking, and piping are complied with and the quantity so stored does not exceed 1, 100 gallons aggregate capacity.

(iii) Shore tanks supplying marine service stations may be located above ground, where rock ledges or high water table make underground tanks impractical.

(iv) Where tanks are at an elevation which would produce gravity head on the dispensing unit, the tank outlet shall be equipped with a pressure control valve positioned adjacent to and outside the tank block valve specified in WAC 296-24-33005 (2)(h)(ii), so adjusted that liquid cannot flow by gravity from the tank in case of piping or hose failure.

(c) Piping.

(i) Piping between shore tanks and dispensing units shall be as described in WAC 296-24-33007, except that, where dispensing is from a floating structure, suitable lengths of oil-resistant flexible hose may be employed between the shore piping and the piping on the floating structure as made necessary by change in water level or shoreline.

(ii) A readily accessible valve to shut off the supply from shore shall be provided in each pipeline at or near the approach to the pier and at the shore end of each pipeline adjacent to the point where flexible hose is attached.

(iii) Piping shall be located so as to be protected from physical damage.

(iv) Piping handling Class I liquids shall be grounded to control stray currents.

(4) Electrical equipment.

(a) Application. This subsection shall apply to areas where Class I liquids are stored or handled. For areas where Class II or Class III liquids are stored or handled the electrical equipment may be installed according to the provisions of chapter 296-24 WAC Part L for ordinary locations.

(b) All electrical equipment and wiring shall be of a type specified by and shall be installed according to chapter 296-24 WAC Part L.

(c) So far as it applies, Table H-19 shall be used to delineate and classify hazardous areas for the purpose of installation of electrical equipment under normal circumstances. A classified area shall not extend beyond an unpierced wall, roof, or other solid partition.

(d) The area classifications listed shall be based on the assumption that the installation meets the applicable requirements of this section in all respects.

TABLE H-19
ELECTRICAL EQUIPMENT HAZARDOUS AREAS—SERVICE STATIONS

Location	Class I, Group D division	Extent of classified area
Underground tank:		
Fill opening	1	Any pit, box or space below grade level, any part of which is within the Division 1 or 2 classified area.
	2	Up to 18 inches above grade level within a horizontal radius of 10 feet from a loose fill connection and within a horizontal radius of 5 feet from a tight fill connection.
Vent—Discharging upward	1	Within 3 feet of open end of vent, extending in all directions.
	2	Area between 3 feet and 5 feet of open end of vent, extending in all directions.
Dispenser:		
Pits	1	Any pit, box or space below grade level, any part of which is within the Division 1 or 2 classified area.
Dispenser enclosure	1	The area 4 feet vertically above base within the enclosure and 18 inches horizontally in all directions.
Outdoor	2	Up to 18 inches above grade level within 20 feet horizontally of any edge of enclosure.

TABLE H-19
ELECTRICAL EQUIPMENT HAZARDOUS AREAS—SERVICE STATIONS

Location	Class I, Group D division	Extent of classified area
Indoor:		
With mechanical ventilation	2	Up to 18 inches above grade or floor level within 20 feet horizontally of any edge of enclosure.
With gravity ventilation	2	Up to 18 inches above grade or floor level within 25 feet horizontally of any edge of enclosure.
Remote pump—Outdoor	1	Any pit, box or space below grade level if any part is within a horizontal distance of 10 feet from any edge of pump.
	2	Within 3 feet of any edge of pump, extending in all directions. Also up to 18 inches above grade level within 10 feet horizontally from any edge of pump.
Remote pump—Indoor	1	Entire area within any pit.
	2	Within 5 feet of any edge of pump, extending in all directions. Also up to 3 feet above floor or grade level within 25 feet horizontally from any edge of pump.
Lubrication or service room	1	Entire area within any pit.
	2	Area up to 18 inches above floor or grade level within entire lubrication room.
Dispenser for Class I liquids	2	Within 3 feet of any fill or dispensing point, extending in all directions.
Special enclosure inside building per WAC 296-24-33013 (1)(b)	1	Entire enclosure.
Sales, storage and rest rooms	Ordinary	If there is any opening to these rooms within the extent of a Division 1 area, the entire room shall be classified as Division 1.

TABLE H-19
ELECTRICAL EQUIPMENT HAZARDOUS AREAS—SERVICE STATIONS

(5) Heating equipment.

(a) Conformance. Heating equipment shall be installed as provided in (b) through (e) of this subsection.

(b) Application. Heating equipment may be installed in the conventional manner in an area except as provided in (c), (d) or (e) of this subsection.

(c) Special room. Heating equipment may be installed in a special room separated from an area classified by Table H-19 by walls having a fire resistance rating of at least 1 hour and without any openings in the walls within 8 feet of the floor into an area classified in Table H-19.This room shall not be used for combustible storage and all air for combustion purposes shall come from outside the building.

(d) Work areas. Heating equipment using gas or oil fuel may be installed in the lubrication, sales, or service room where there is no dispensing or transferring of Class I liquids provided the bottom of the combustion chamber is at least 18 inches above the floor and the heating equipment is protected from physical damage by vehicles. Heating equipment using gas or oil fuel listed for use in garages may be installed in the lubrication or service room where Class I liquids are dispensed provided the equipment is installed at least 8 feet above the floor.

(e) Electric heat. Electrical heating equipment shall conform to subsection (4) of this section.

(6) Drainage and waste disposal. Provision shall be made in the area where Class I liquids are dispensed to prevent spilled liquids from flowing into the interior of service station buildings. Such provision may be by grading driveways, raising door sills, or other equally effective means. Crankcase drainings and flammable or combustible liquids shall not be dumped into sewers but shall be stored in tanks or drums outside of any building until removed from the premises.

(7) Sources of ignition. In addition to the previous restrictions of this section, the following shall apply: There shall be no smoking or open flames in the areas used for fueling, servicing fuel systems for internal combustion engines, receiving or dispensing of flammable or combustible liquids. Conspicuous and legible signs prohibiting smoking shall be posted within sight of the customer being served. The motors of all equipment being fueled shall be shut off during the fueling operation.

(8) Fire control. Each service station shall be provided with at least one fire extinguisher having a minimum approved classification of 6 B, C located so that an extin-

guisher will be within 75 feet of each pump, dispenser, underground fill pipe opening, and lubrication or service room.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-33015, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-33015, filed 4/19/85; 83-24-013 (Order 83-34), § 296-24-33015, filed 11/30/83; Order 76-6, § 296-24-33015, filed 3/1/76; Order 73-5, § 296-24-33015, filed 5/9/73 and Order 73-4, § 296-24-33015, filed 5/7/73.]

WAC 296-24-33017 Processing plants. (1) Scope. This section shall apply to those plants or buildings which contain chemical operations such as oxidation, reduction, halogenation, hydrogenation, alkylation, polymerization, and other chemical processes but shall not apply to chemical plants, refineries or distilleries.

(2) Location.

(a) Classification. The location of each processing vessel shall be based upon its flammable or combustible liquid capacity. Processing vessels shall be located, with respect to distances to lines of adjoining property which may be built upon, in accordance with Table H-20, except when the processing plant is designed in accordance with (2)(b) of this section.

TABLE H - 20

Processing vessels with emergency relief venting to permit pressure	Stable liquids	Unstable liquids
Not in excess of 2.5 p.s.i.g.	Table H-9	2 1/2 times Table H-9.
Over 2.5. p.s.i.g.	1 1/2 times Table H-9.	4 times Table H-9.

(b) Exception. The distances required in (2)(a) of this section may be waived when the vessels are housed within a building and the exterior wall facing the line of adjoining property which may be built upon is a blank wall having a fire-resistance rating of not less than 4 hours. When Class IA or unstable liquids are handled, the blank wall shall have explosion resistance in accordance with good engineering practice, see (3)(d) of this section.

(3) Processing building.

(a) Construction.

(i) Processing buildings shall be of fire-resistance or noncombustible construction, except heavy timber construction with load-bearing walls may be permitted for plants utilizing only stable Class II or Class III liquids. Except as provided in (2)(b) of this section or in the case of explosion resistant walls used in conjunction with explosion relieving facilities, see (3)(d) of this section, loadbearing walls are prohibited. Buildings shall be without basements or covered pits.

(ii) Areas shall have adequate exit facilities arranged to prevent occupants from being trapped in the event of fire. Exits shall not be exposed by the drainage facilities described in (3)(b) of this section.

(b) Drainage.

(i) Emergency drainage systems shall be provided to direct flammable or combustible liquid leakage and fire protection water to a safe location. This may require curbs, scuppers, or special drainage systems to control the spread of fire, see WAC 296-24-33005 (2)(g)(ii).

(ii) Emergency drainage systems, if connected to public sewers or discharged into public waterways, shall be equipped with traps or separators.

(iii) The processing plant shall be designed and operated to prevent the normal discharge of flammable or combustible liquids to public waterways, public sewers, or adjoining property.

(c) Ventilation.

(i) Enclosed processing buildings shall be ventilated at a rate of not less than 1 cubic foot per minute per square foot of solid floor area. This shall be accomplished by natural or mechanical ventilation with discharge or exhaust to a safe location outside of the building. Provision shall be made for introduction of makeup air in such a manner as not to short circuit the ventilation. Ventilation shall be arranged to include all floor areas or pits where flammable vapors may collect.

(ii) Equipment used in a building and the ventilation of the building shall be designed so as to limit flammable vapor-air mixtures under normal operating conditions to the interior of equipment, and to not more than 5 feet from equipment which exposes Class I liquids to the air. Examples of such equipment are dispensing stations, open centrifuges, plate and frame filters, open vacuum filters, and surfaces of open equipment.

(d) Explosion relief. Areas where Class IA or unstable liquids are processed shall have explosion venting through one or more of the following methods:

(i) Open air construction.

(ii) Lightweight walls and roof.

(iii) Lightweight wall panels and roof hatches.

(iv) Windows of explosion venting type.

(4) Liquid handling.

(a) Storage.

(i) The storage of flammable or combustible liquids in tanks shall be in accordance with the applicable provisions of WAC 296-24-33005.

(ii) If the storage of flammable or combustible liquids in outside aboveground or underground tanks is not practical because of temperature or production considerations, tanks may be permitted inside of buildings or structures in accordance with the applicable provisions of WAC 296-24-33005.

(iii) Storage tanks inside of buildings shall be permitted only in areas at or above grade which have adequate drainage and are separated from the processing area by construction having a fire resistance rating of at least 2 hours.

(iv) The storage of flammable or combustible liquids in containers shall be in accordance with the applicable provisions of WAC 296-24-33009.

(b) Piping, valves, and fittings.

(i) Piping, valves, and fittings shall be in accordance with WAC 296-24-33007.

(ii) Approved flexible connectors may be used where vibration exists or where frequent movement is necessary. Approved hose may be used at transfer stations.

(iii) Piping containing flammable or combustible liquids shall be identified.

(c) Transfer.

(i) The transfer of large quantities of flammable or combustible liquids shall be through piping by means of pumps or water displacement. Except as required in process equipment, gravity flow shall not be used. The use of compressed air as a transferring medium is prohibited.

(ii) Positive displacement pumps shall be provided with pressure relief discharging back to the tank or to pump suction.

(d) Equipment.

(i) Equipment shall be designed and arranged to prevent the unintentional escape of liquids and vapors and to minimize the quantity escaping in the event of accidental release.

(ii) Where the vapor space of equipment is usually within the flammable range, the probability of explosion damage to the equipment can be limited by inerting, by providing an explosion suppression system, or by designing the equipment to contain the peak explosion pressure which may be modified by explosion relief. Where the special hazards of operation, sources of ignition, or exposures indicate a need, consideration shall be given to providing protection by one or more of the above means.

(5) Tank vehicle and tank car loading and unloading. Tank vehicle and tank car loading or unloading facilities shall be separated from aboveground tanks, warehouses, other plant buildings, or nearest line of adjoining property which may be built upon by a distance of 25 feet for Class I liquids and 15 feet for Class II and Class III liquids measured from the nearest position of any fill stem. Buildings for pumps or shelters for personnel may be a part of the facility. Operations of the facility shall comply with the appropriate portions of WAC 296-24-33013(3).

(6) Fire control.

(a) Portable extinguishers. Approved portable fire extinguishers of appropriate size, type and number shall be provided.

(b) Other controls. Where the special hazards of operation or exposure indicate a need, the following fire control provision shall be provided.

(i) A reliable water supply shall be available in pressure and quantity adequate to meet the probable fire demands.

(ii) Hydrants shall be provided in accordance with accepted good practice.

(iii) Hose connected to a source of water shall be installed so that all vessels, pumps, and other equipment containing flammable or combustible liquids can be reached with at least one hose stream. Nozzles that are capable of discharging a water spray shall be provided.

(iv) Processing plants shall be protected by an approved automatic sprinkler system or equivalent extinguishing system. If special extinguishing systems including but not limited to those employing foam, carbon dioxide, or dry chemical are provided, approved equipment shall be used and installed in an approved manner.

(c) Alarm systems. An approved means for prompt notification of fire to those within the plant and any public fire department available shall be provided. It may be advisable to connect the plant system with the public system where public fire alarm system is available.

(d) Maintenance. All plant fire protection facilities shall be adequately maintained and periodically inspected and tested to make sure they are always in satisfactory operating condition and that they will serve their purpose in time of emergency.

(7) Sources of ignition.

(a) General.

(i) Precautions shall be taken to prevent the ignition of flammable vapors. Sources of ignition include but are not limited to open flames; lightning; smoking; cutting and welding; hot surfaces; frictional heat; static, electrical, any mechanical sparks; spontaneous ignition, including heat-producing chemical reactions; and radiant heat.

(ii) Class I liquids shall not be dispensed into containers unless the nozzle and container are electrically interconnected. Where the metallic floorplate on which the container stands while filling is electrically connected to the fill stem or where the fill stem is bonded to the container during filling operations by means of a bond wire, the provisions of this section shall be deemed to have been complied with.

(b) Maintenance and repair.

(i) When necessary to do maintenance work in a flammable or combustible liquid processing area, the work shall be authorized by a responsible representative of the employer.

(ii) Hot work such as welding or cutting operations, use of spark-producing power tools, and chipping operations shall be permitted only under supervision of an individual in responsible charge who shall make an inspection of the area to be sure that it is safe for the work to be done and that safe procedures will be followed for the work specified.

(c) Electrical.

(i) All electrical wiring and equipment within storage or processing areas shall be installed according to chapter 296-24 WAC Part L.

(ii) Locations where flammable vapor-air mixtures may exist under normal operations shall be classified Class I, Division 1 according to the requirements of chapter 296-24 WAC Part L. For those pieces of equipment installed in accordance with (3)(c)(ii) of this section, the Division 1 area shall extend 5 feet in all directions from all points of vapor liberation. All areas within pits shall be classified Division 1 if any part of the pit is within a Division 1 or 2 classified area, unless the pit is provided with mechanical ventilation.

(iii) Locations where flammable vapor-air mixtures may exist under abnormal conditions and for a distance beyond Division 1 locations shall be classified Division 2 according to the requirements of chapter 296-24 WAC Part L. These locations include an area within 20 feet horizontally, 3 feet vertically beyond a Division 1 area, and up to 3 feet above floor or grade level within 25 feet, if indoors, or 10 feet if outdoors, from any pump, bleeder, withdrawal fittings, meter, or similar device handling Class I liquids. Pits provided with adequate mechanical ventilation within a Division 1 or 2 area shall be classified Division 2. If Class II or Class III liquids only are handled, then ordinary electrical equipment is satisfactory though care shall be used in locating electrical apparatus to prevent hot metal from falling into open equipment.

(iv) Where the provisions of (7)(c)(i), (ii), and (iii) of this section require the installation of explosion-proof equipment, ordinary electrical equipment including switchgear may be used if installed in a room or enclosure which is maintained

under positive pressure with respect to the hazardous area. Ventilation makeup air shall be uncontaminated by flammable vapors.

(8) Housekeeping.

(a) General. Maintenance and operating practices shall be in accordance with established procedures which will tend to control leakage and prevent the accidental escape of flammable or combustible liquids. Spills shall be cleaned up promptly.

(b) Access. Adequate aisles shall be maintained for unobstructed movement of personnel and so that fire protection equipment can be brought to bear on any part of the processing equipment.

(c) Waste and residues. Combustible waste material and residues in a building or operating area shall be kept to a minimum, stored in closed metal waste cans, and disposed of daily.

(d) Clear zone. Ground area around buildings and operating areas shall be kept free of tall grass, weeds, trash, or other combustible materials.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-33017, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-33017, filed 4/19/85; Order 76-6, § 296-24-33017, filed 3/1/76; Order 73-5, § 296-24-33017, filed 5/9/73 and Order 73-4, § 296-24-33017, filed 5/7/73.]

WAC 296-24-33019 Refineries, chemical plants, and distilleries. (1) Storage tanks. Flammable or combustible liquids shall be stored in tanks, in containers, or in portable tanks. Tanks shall be installed in accordance with WAC 296-24-33005. Tanks for the storage of flammable or combustible liquids in tank farms and in locations other than process areas shall be located in accordance with WAC 296-24-33005 (2)(a) and (b).

(2) Wharves. Wharves handling flammable or combustible liquids shall be in accordance with WAC 296-24-33013(4).

(3) Fired and unfired pressure vessels.

(a) Fired vessels. Fired pressure vessels shall be constructed in accordance with the Code for Fired Pressure Vessels, section I of the ASME Boiler and Pressure Vessel Code—1968.

(b) Unfired vessels shall be constructed in accordance with the Code for Unfired Pressure Vessels, section VIII of the ASME Boiler and Pressure Vessel Code—1968.

(4) Location of process units. Process units shall be located so that they are accessible from at least one side for the purpose of fire control. Where topographical conditions are such that flammable or combustible liquids may flow from a processing area so as to constitute a fire hazard to property of others, provision shall be made to divert or impound the flow by curbs, drains, or other suitable means.

(5) Fire control.

(a) Portable equipment. Portable fire extinguishment and control equipment shall be provided in such quantities and types as are needed for the special hazards of operation and storage.

(b) Water supply. Water shall be available in volume and at adequate pressure to supply water hose streams, foam producing equipment, automatic sprinklers, or water spray systems as the need is indicated by the special hazards of operation and storage.

(c) Special equipment. Special extinguishing equipment such as that utilizing foam, inert gas, or dry chemical shall be provided as the need is indicated by the special hazards of operation and storage.

[Order 73-5, § 296-24-33019, filed 5/9/73 and Order 73-4, § 296-24-33019, filed 5/7/73.]

WAC 296-24-370 Spray finishing using flammable and combustible materials.

[Order 73-5, § 296-24-370, filed 5/9/73 and Order 73-4, § 296-24-370, filed 5/7/73.]

WAC 296-24-37001 Definitions. (1) Aerated solid powders. Aerated powders shall mean any powdered material used as a coating material which shall be fluidized within a container by passing air uniformly from below. It is common practice to fluidize such materials to form a fluidized powder bed and then dip the part to be coated into the bed in a manner similar to that used in liquid dipping. Such beds are also used as sources for powder spray operations.

(2) Spraying area. Any area in which dangerous quantities of flammable vapors or mists, or combustible residues, dusts, or deposits are present due to the operation of spraying processes.

(3) Spray booth. A power-ventilated structure provided to enclose or accommodate a spraying operation to confine and limit the escape of spray, vapor, and residue, and to safely conduct or direct them to an exhaust system.

(4) Waterwash spray booth. A spray booth equipped with a water washing system designed to minimize dusts or residues entering exhaust ducts and to permit the recovery of overspray finishing material.

(5) Dry spray booth. A spray booth not equipped with a water washing system as described in subsection (4) of this section. A dry spray booth may be equipped with (a) distribution or baffle plates to promote an even flow of air through the booth or cause the deposit of overspray before it enters the exhaust duct; or (b) overspray dry filters to minimize dusts; or (c) overspray dry filters to minimize dusts or residues entering exhaust ducts; or (d) overspray dry filter rolls designed to minimize dusts or residues entering exhaust ducts; or (e) where dry powders are being sprayed, with powder collection systems so arranged in the exhaust to capture oversprayed material.

(6) Fluidized bed. A container holding powder coating material which is aerated from below so as to form an air-supported expanded cloud of such material through which the preheated object to be coated is immersed and transported.

(7) Electrostatic fluidized bed. A container holding powder coating material which is aerated from below so as to form an air-supported expanded cloud of such material which is electrically charged with a charge opposite to the charge of the object to be coated; such object is transported through the container immediately above the charged and aerated materials in order to be coated.

(8) Approved. Shall mean approved and listed by a nationally recognized testing laboratory. Refer to federal reg-

ulation 29 CRF 1910.7 for definition of nationally recognized testing laboratory.

(9) Listed. See "approved" in subsection (8) of this section.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-37001, filed 11/14/88; Order 76-6, § 296-24-37001, filed 3/1/76; Order 73-5, § 296-24-37001, filed 5/9/73 and Order 73-4, § 296-24-37001, filed 5/7/73.]

WAC 296-24-37003 Spray booths. (1) Construction. Spray booths shall be substantially constructed of steel, securely and rigidly supported, or of concrete or masonry except that aluminum or other substantial noncombustible material may be used for intermittent or low volume spraying. Spray booths shall be designed to sweep air currents toward the exhaust outlet.

(2) Interiors. The interior surfaces of spray booths shall be smooth and continuous without edges and otherwise designed to prevent pocketing of residues and facilitate cleaning and washing without injury.

(3) Floors. The floor surface of a spray booth and operator's working area, if combustible, shall be covered with noncombustible material of such character as to facilitate the safe cleaning and removal of residues.

(4) Distribution or baffle plates. Distribution or baffle plates, if installed to promote an even flow of air through the booth or cause the deposit of overspray before it enters the exhaust duct, shall be of noncombustible material and readily removable or accessible on both sides for cleaning. Such plates shall not be located in exhaust ducts.

(5) Dry type overspray collectors—(Exhaust air filters). In conventional dry type spray booths, overspray dry filters or filter rolls, if installed, shall conform to the following:

(a) The spraying operations except electrostatic spraying operations shall be so designed, installed and maintained that the average air velocity over the open face of the booth (or booth cross section during spraying operations) shall be not less than 100 linear feet per minute. Electrostatic spraying operations may be conducted with an air velocity over the open face of the booth of not less than 60 linear feet per minute, or more, depending on the volume of the finishing material being applied and its flammability and explosion characteristics. Visible gauges or audible alarm or pressure activated devices shall be installed to indicate or insure that the required air velocity is maintained. Dry spray booths equipped with a filter roll which is automatically advanced when the air velocity is reduced to that specified in this section should be arranged to cause shutdown of spraying operations if the filter roll fails to advance automatically. Maintenance procedures should be established to assure replacing filter pads before excessive restriction to airflow occurs. Filter pads should be inspected after each period of use and clogged filter pads discarded and replaced. Filter rolls shall be inspected to insure proper replacement of filter media.

(b) All discarded filter pads and filter rolls shall be immediately removed to a safe, well-detached location or placed in a water-filled metal container and disposed of at the close of the day's operation unless maintained completely in water.

(c) The location of filters in a spray booth shall be so as to not reduce the effective booth enclosure of the articles being sprayed.

(d) Space within the spray booth on the downstream and upstream sides of filters shall be protected with an approved automatic sprinkler system meeting one of the following requirements:

(i) An automatic sprinkler system as defined in WAC 296-24-607; or

(ii) A fixed dry chemical extinguishing system as defined in WAC 296-24-622; or

(iii) A fixed carbon dioxide gaseous agent system as defined in WAC 296-24-623.

(e) Filters or filter rolls shall not be used when applying a spray material known to be highly susceptible to spontaneous heating and ignition.

(f) Clean filters or filter rolls shall be noncombustible or of a type having a combustibility not in excess of Class 2 filters as listed by Underwriters' Laboratories, Inc. Filters and filter rolls shall not be alternately used for different types of coating materials, where the combination of materials may be conducive to spontaneous ignition. See also WAC 296-24-37013(6).

(6) Frontal area. Each spray booth having a frontal area larger than 9 square feet shall have a metal deflector or curtain not less than 2 1/2 inches deep installed at the upper outer edge of the booth over the opening.

(7) Conveyors. Where conveyors are arranged to carry work into or out of spray booths, the openings therefor shall be as small as practical.

(8) Separation of operations. Each spray booth shall be separated from other operations by not less than 3 feet, or by a greater distance, or by such partition or wall as to reduce the danger from juxtaposition of hazardous operations. See also WAC 296-24-37005(1).

(9) Cleaning. Spray booths shall be so installed that all portions are readily accessible for cleaning. A clear space of not less than 3 feet on all sides shall be kept free from storage or combustible construction.

(10) Illumination. When spraying areas are illuminated through glass panels or other transparent materials, only fixed lighting units shall be used as a source of illumination. Panels shall effectively isolate the spraying area from the area in which the lighting unit is located, and shall be of a noncombustible material of such a nature or so protected that breakage will be unlikely. Panels shall be so arranged that normal accumulations of residue on the exposed surface of the panel will not be raised to a dangerous temperature by radiation or conduction from the source of illumination.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-37003, filed 5/15/89, effective 6/30/89; Order 76-6, § 296-24-37003, filed 3/1/76; Order 73-5, § 296-24-37003, filed 5/9/73 and Order 73-4, § 296-24-37003, filed 5/7/73.]

WAC 296-24-37005 Electrical and other sources of ignition. (1) Conformance. All electrical equipment, open flames and other sources of ignition shall conform to the requirements of this section, except as follows:

(a) Electrostatic apparatus shall conform to the requirements of WAC 296-24-37015 and 296-24-37017.

(b) Drying, curing, and fusion apparatus shall conform to the requirements of WAC 296-24-37019.

(c) Automobile undercoating spray operations in garages shall conform to the requirements of WAC 296-24-37021.

(d) Powder coating equipment shall conform to the requirements of WAC 296-24-37023.

(2) Minimum separation. There shall be no open flame or spark producing equipment in any spraying area nor within 20 feet thereof, unless separated by a partition.

(3) Hot surfaces. Space-heating appliances, steampipes, or hot surfaces shall not be located in a spraying area where deposits of combustible residues may readily accumulate.

(4) Wiring conformance. Electrical wiring and equipment shall conform to the provisions of this section and chapter 296-24 WAC Part L.

(5) Combustible residues, areas. Unless specifically approved for locations containing both deposits of readily ignitable residue and explosive vapors, there shall be no electrical equipment in any spraying area, whereon deposits of combustible residues may readily accumulate, except wiring in rigid conduit or in boxes or fittings containing no taps, splices, or terminal connections.

(6) Wiring type approved. Electrical wiring and equipment not subject to deposits of combustible residues but located in a spraying area as herein defined shall be of explosion-proof type approved for Class I, Group D locations and conform to the provisions of chapter 296-24 WAC Part L, for Class I, Division 1, hazardous locations. Electrical wiring, motors, and other equipment outside of but within twenty feet of any spraying area, and not separated therefrom by partitions, shall not produce sparks under normal operating conditions and conform to the provisions of chapter 296-24 WAC Part L for Class I, Division 2, hazardous locations.

(7) Lamps. Electric lamps outside of, but within twenty feet of any spraying area, and not separated therefrom by a partition, shall be totally enclosed to prevent the falling of hot particles and shall be protected from mechanical injury by suitable guards or by location.

(8) Portable lamps. Portable electric lamps shall not be used in any spraying area during spraying operations. Portable electric lamps, if used during cleaning or repairing operations, shall be of the type approved for hazardous Class I locations.

(9) Grounding.

(a) All metal parts of spray booths, exhaust ducts, and piping systems conveying flammable or combustible liquids or aerated solids shall be properly electrically grounded in an effective and permanent manner.

(b) "Airless" high-fluid pressure spray guns and any conductive object being sprayed should be properly electrically grounded.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-37005, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-37005, filed 4/19/85; Order 76-6, § 296-24-37005, filed 3/1/76; Order 73-5, § 296-24-37005, filed 5/9/73 and Order 73-4, § 296-24-37005, filed 5/7/73.]

WAC 296-24-37007 Ventilation. (1) Conformance. Ventilating and exhaust systems shall be in accordance with the Standard for Blower and Exhaust Systems for Vapor Removal, NFPA No. 91-1961, where applicable and shall also conform to the provisions of this section.

(2) General. All spraying areas shall be provided with mechanical ventilation adequate to remove flammable vapors, mists or powders to a safe location and to confine and control combustible residues so that life is not endangered. Mechanical ventilation shall be kept in operation at all times while spraying operations are being conducted and for a sufficient time thereafter to allow vapors from drying coated articles and drying finishing material residue to be exhausted.

(3) Independent exhaust. Each spray booth shall have an independent exhaust duct system discharging to the exterior of the building, except that multiple cabinet spray booths in which identical spray finishing material is used with a combined frontal area of not more than 18 square feet may have a common exhaust. If more than one fan serves one booth, all fans shall be so interconnected that one fan cannot operate without all fans being operated.

(4) Fan-rotating element. The fan-rotating element shall be nonferrous or nonsparking or the casing shall consist of or be lined with such material. There shall be ample clearance between the fan-rotating element and the fan casing to avoid a fire by friction, necessary allowance being made for ordinary expansion and loading to prevent contact between moving parts and the duct or fan housing. Fan blades shall be mounted on a shaft sufficiently heavy to maintain perfect alignment even when the blades of the fan are heavily loaded, the shaft preferably to have bearings outside the duct and booth. All bearings shall be of the self-lubricating type, or lubricated from the outside duct.

(5) Electric motors. Electric motors driving exhaust fans shall not be placed inside booths or ducts. See also WAC 296-24-37005.

(6) Belts. Belts shall not enter the duct or booth unless the belt and pulley within the duct or booth are thoroughly enclosed.

(7) Exhaust ducts. Exhaust ducts shall be constructed of steel and shall be substantially supported. Exhaust ducts without dampers are preferred; however, if dampers are installed, they shall be maintained so that they will be in a full open position at all times the ventilating system is in operation.

(a) Exhaust ducts shall be protected against mechanical damage and have a clearance from unprotected combustible construction or other combustible material of not less than 18 inches.

(b) If combustible construction is provided with the following protection applied to all surfaces within 18 inches, clearances may be reduced to the distances indicated:

(i) 8-gage sheet metal on 1/4-inch 12 inches.
asbestos mill board.

(ii) 28-gage sheet metal on 1/8-inch 9 inches.
asbestos mill board spaced out 1 inch on noncombustible spacers.

(iii) 22-gage sheet metal on 1-inch 3 inches.
rockwool batts reinforced with wire mesh or the equivalent.

(iv)Where ducts are protected with an approved automatic sprinkler system, properly maintained, the clearance required in (7)(a) of this section may be reduced to 6 inches.

(8) Discharge clearance. Unless the spray booth exhaust duct terminal is from a water-wash spray booth, the terminal discharge point shall be not less than 6 feet from any combustible exterior wall or roof nor discharge in the direction of any combustible construction or unprotected opening in any noncombustible exterior wall within 25 feet.

(9) Air exhaust. Air exhaust from spray operations shall not be directed so that it will contaminate makeup air being introduced into the spraying area or other ventilating intakes, nor directed so as to create a nuisance. Air exhausted from spray operations shall not be recirculated.

(10) Access doors. When necessary to facilitate cleaning, exhaust ducts shall be provided with an ample number of access doors.

(11) Room intakes. Air intake openings to rooms containing spray finishing operations shall be adequate for the efficient operation of exhaust fans and shall be so located as to minimize the creation of dead air pockets.

(12) Drying spaces. Freshly sprayed articles shall be dried only in spaces provided with adequate ventilation to prevent the formation of explosive vapors. In the event adequate and reliable ventilation is not provided such drying spaces shall be considered a spraying area. (See also WAC 296-24-37019.)

[Order 76-6, § 296-24-37007, filed 3/1/76; Order 73-5, § 296-24-37007, filed 5/9/73 and Order 73-4, § 296-24-37007, filed 5/7/73.]

WAC 296-24-37009 Flammable and combustible liquids—Storage and handling. (1) Conformance. The storage of flammable or combustible liquids in connection with spraying operations shall conform to the requirements of WAC 296-24-330, where applicable.

(2) Quantity. The quantity of flammable or combustible liquids kept in the vicinity of spraying operations shall be the minimum required for operations and should ordinarily not exceed a supply for 1 day or one shift. Bulk storage of portable containers of flammable or combustible liquids shall be in a separate, constructed building detached from other important buildings or cut off in a standard manner.

(3) Containers. Original closed containers, approved portable tanks, approved safety cans or a properly arranged system of piping shall be used for bringing flammable or combustible liquids into spray finishing room. Open or glass containers shall not be used.

(4) Transferring liquids. Except as provided in (5) of this section, the withdrawal of flammable and combustible liquids from containers having a capacity of greater than 60 gallons shall be by approved pumps. The withdrawal of flammable or combustible liquids from containers and the filling of containers, including portable mixing tanks, shall be done only in a suitable mixing room or in a spraying area when the ventilating system is in operation. Adequate precautions shall be taken to protect against liquid spillage and sources of ignition.

(5) Spraying containers. Containers supplying spray nozzles shall be of closed type or provided with metal covers kept closed. Containers not resting on floors shall be on metal supports or suspended by wire cables. Containers supplying spray nozzles by gravity flow shall not exceed 10 gallons capacity. Original shipping containers shall not be subject to air pressure for supplying spray nozzles. Containers under air pressure supplying spray nozzles shall be of limited capacity, not exceeding that necessary for 1 day's operation; shall be designed and approved for such use; shall be provided with a visible pressure gage; and shall be provided with a relief valve set to operate in conformance with the requirements of the Code for Unfired Pressure Vessels, Section VIII of the ASME Boiler and Pressure Vessel Code—1968. Containers under air pressure supplying spray nozzles, air-storage tanks and coolers shall conform to the standards of the Code for Unfired Pressure Vessels, Section VIII of the ASME Boiler and Pressure Vessel Code—1968 for construction, tests, and maintenance.

(6) Pipes and hoses.

(a) All containers or piping to which is attached a hose or flexible connection shall be provided with a shutoff valve at the connection. Such valves shall be kept shut when spraying operations are not being conducted.

(b) When a pump is used to deliver products, automatic means shall be provided to prevent pressure in excess of the design working pressure of accessories, piping, and hose.

(c) All pressure hose and couplings shall be inspected at regular intervals appropriate to this service. The hose and couplings shall be tested with the hose extended, and using the "inservice maximum operating pressures." Any hose showing material deteriorations, signs of leakage, or weakness in its carcass or at the couplings, shall be withdrawn from service and repaired or discarded.

(d) Piping systems conveying flammable or combustible liquids shall be of steel or other material having comparable properties of resistance to heat and physical damage. Piping systems shall be properly bonded and grounded.

(7) Spray liquid heaters. Electrically powered spray liquid heaters shall be approved and listed for the specific location in which used (see WAC 296-24-37005). Heaters shall not be located in spray booths nor other locations subject to the accumulation of deposits or combustible residue. Agitators, if used, should preferably be driven by compressed air, water, or low-pressure steam. If an electric motor is used, (see WAC 296-24-37005).

(8) Pump relief. If flammable or combustible liquids are supplied to spray nozzles by positive displacement pumps, the pump discharge line shall be provided with an approved relief valve discharging to a pump suction or a safe detached location, or a device provided to stop the prime mover if the discharge pressure exceeds the safe operating pressure of the system.

(9) Grounding. Whenever flammable or combustible liquids are transferred from one container to another, both containers shall be effectively bonded and grounded to prevent discharge sparks of static electricity.

[Order 73-5, § 296-24-37009, filed 5/9/73 and Order 73-4, § 296-24-37009, filed 5/7/73.]

WAC 296-24-37011 Protection. (1) Conformance. In sprinklered buildings, the automatic sprinkler system in rooms containing spray finishing operations shall conform to the requirements of WAC 296-24-607. In unsprinklered buildings where sprinklers are installed only to protect spraying areas, the installation shall conform to such standards

insofar as they are applicable. Sprinkler heads shall be located so as to provide water distribution throughout the entire booth.

(2) Valve access. Automatic sprinklers protecting each spray booth (together with its connecting exhaust) shall be under an accessibly located separate outside stem and yoke (OS&Y) subcontrol valve.

(3) Cleaning of heads. Sprinklers protecting spraying areas shall be kept as free from deposits as practical by cleaning daily if necessary. (See also WAC 296-24-37013.)

(4) Portable extinguishers. An adequate supply of suitable portable fire extinguishers shall be installed near all spraying areas.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-37011, filed 12/24/81; Order 73-5, § 296-24-37011, filed 5/9/73 and Order 73-4, § 296-24-37011, filed 5/7/73.]

WAC 296-24-37013 Operations and maintenance. (1) Spraying. Spraying shall not be conducted outside of predetermined spraying areas.

(2) Cleaning. All spraying areas shall be kept as free from the accumulation of deposits of combustible residues as practical, with cleaning conducted daily if necessary. Scrapers, spuds, or other such tools used for cleaning purposes shall be of nonsparking material.

(3) Residue disposal. Residue scrapings and debris contaminated with residue shall be immediately removed from the premises and properly disposed of. Approved metal waste cans shall be provided wherever rags or waste are impregnated with finishing material and all such rags or waste deposited therein immediately after use. The contents of waste cans shall be properly disposed of at least once daily or at the end of each shift.

(4) Clothing storage. Spray finishing employees' clothing shall not be left on the premises overnight unless kept in metal lockers.

(5) Cleaning solvents. The use of solvents for cleaning operations shall be restricted to those having flashpoints not less than 100°F; however, for cleaning spray nozzles and auxiliary equipment, solvents having flashpoints not less than those normally used in spray operations may be used. Such cleaning shall be conducted inside spray booths and ventilating equipment operated during cleaning.

(6) Hazardous materials combinations. Spray booths shall not be alternately used for different types of coating materials, where the combination of the materials may be conducive to spontaneous ignition, unless all deposits of the first used material are removed from the booth and exhaust ducts prior to spraying with the second used material.

(7) "No smoking" signs. "No smoking" signs in large letters on contrasting color background shall be conspicuously posted at all spraying areas and paint storage rooms. (See WAC 296-24-140.)

[Order 73-5, § 296-24-37013, filed 5/9/73 and Order 73-4, § 296-24-37013, filed 5/7/73.]

WAC 296-24-37015 Fixed electrostatic apparatus. (1) Conformance. Where installation and use of electrostatic spraying equipment is used, such installation and use shall conform to all other requirements contained in WAC 296-24-370 through 296-24-37027.

(2) Type approval. Electrostatic apparatus and devices used in connection with coating operations shall be of approved types.

(3) Location. Transformers, power packs, control apparatus, and all other electrical portions of the equipment, with the exception of high-voltage grids, electrodes, and electrostatic atomizing heads and their connections, shall be located outside of the spraying area, or shall otherwise conform to the requirements of WAC 296-24-37005.

(4) Support. Electrodes and electrostatic atomizing heads shall be adequately supported in permanent locations and shall be effectively insulated from the ground. Electrodes and electrostatic atomizing heads which are permanently attached to their bases, supports, or reciprocators, shall be deemed to comply with this section. Insulators shall be nonporous and noncombustible.

(5) Insulators, grounding. High-voltage leads to electrodes shall be properly insulated and protected from mechanical injury or exposure to destructive chemicals. Electrostatic atomizing heads shall be effectively and permanently supported on suitable insulators and shall be effectively guarded against accidental contact or grounding. An automatic means shall be provided for grounding the electrode system when it is electrically deenergized for any reason. All insulators shall be kept clean and dry.

(6) Safe distance. A safe distance shall be maintained between goods being painted and electrodes or electrostatic atomizing heads or conductors of at least twice the sparking distance. A suitable sign indicating this safe distance shall be conspicuously posted near the assembly.

(7) Conveyors required. Goods being painted using this process are to be supported on conveyors. The conveyors shall be so arranged as to maintain safe distances between the goods and the electrodes or electrostatic atomizing heads at all times. Any irregularly shaped or other goods subject to possible swinging or movement shall be rigidly supported to prevent such swinging or movement which would reduce the clearance to less than that specified in (6) of this section.

(8) Prohibition. This process is not acceptable where goods being coated are manipulated by hand. When finishing materials are applied by electrostatic equipment which is manipulated by hand, see WAC 296-24-37017 for applicable requirements. (Rev. 1-23-76)

(9) Fail-safe controls. Electrostatic apparatus shall be equipped with automatic controls which will operate without time delay to disconnect the power supply to the high voltage transformer and to signal the operator under any of the following conditions:

(a) Stoppage of ventilating fans or failure of ventilating equipment from any cause.

(b) Stoppage of the conveyor carrying goods through the high voltage field.

(c) Occurrence of a ground or of an imminent ground at any point on the high voltage system.

(d) Reduction of clearance below that specified in (6) of this section.

(10) Guarding. Adequate booths, fencing, railings, or guards shall be so placed about the equipment that they,

either by their location or character or both, assure that a safe isolation of the process is maintained from plant storage or personnel. Such railings, fencing, and guards shall be of conducting material, adequately grounded.

(11) Ventilation. Where electrostatic atomization is used the spraying area shall be so ventilated as to insure safe conditions from a fire and health standpoint.

(12) Fire protection. All areas used for spraying, including the interior of the booth, shall be protected by automatic sprinklers where this protection is available. Where this protection is not available, other approved automatic extinguishing equipment shall be provided.

[Order 76-6, § 296-24-37015, filed 3/1/76; Order 73-5, § 296-24-37015, filed 5/9/73 and Order 73-4, § 296-24-37015, filed 5/7/73.]

WAC 296-24-37017 Electrostatic hand spraying equipment. (1) Application. This section shall apply to any equipment using electrostatically charged elements for the atomization and/or, precipitation of materials for coatings on articles, or for other similar purposes in which the atomizing device is hand held and manipulated during the spraying operation.

(2) Conformance. Electrostatic hand spraying equipment shall conform with the other provisions of WAC 296-24-370 through 296-24-37027.

(3) Equipment approval and specifications. Electrostatic hand spray apparatus and devices used in connection with coating operations shall be of approved types. The equipment should be so designed that the maximum surface temperature of the equipment in the spraying area shall not exceed 150°F under any condition. The high voltage circuits shall be designed so as to not produce a spark of sufficient intensity to ignite any vapor-air mixtures nor result in appreciable shock hazard upon coming in contact with a grounded object under all normal operating conditions. The electrostatically charged exposed elements of the handgun shall be capable of being energized only by a switch which also controls the coating material supply.

(4) Electrical support equipment. Transformers, powerpacks, control apparatus, and all other electrical portions of the equipment, with the exception of the handgun itself and its connections to the powder supply shall be located outside of the spraying area or shall otherwise conform to the requirements of WAC 296-24-37005.

(5) Spray gun ground. The handle of the spraying gun shall be electrically connected to ground by a metallic connection and to be so constructed that the operator in normal operating position is in intimate electrical contact with the grounded handle.

(6) Grounding—General. All electrically conductive objects in the spraying area shall be adequately grounded. This requirement shall apply to paint containers, wash cans, and any other objects or devices in the area. The equipment shall carry a prominent permanently installed warning regarding the necessity for this grounding feature.

(7) Maintenance of grounds. Objects being painted or coated shall be maintained in metallic contact with the conveyor or other grounded support. Hooks shall be regularly cleaned to insure this contact and areas of contact shall be sharp points or knife edges where possible. Points of support of the object shall be concealed from random spray where feasible and where the objects being sprayed are supported from a conveyor, the point of attachment to the conveyor shall be so located as to not collect spray material during normal operation.

(8) Interlocks. The electrical equipment shall be so interlocked with the ventilation of the spraying area that the equipment cannot be operated unless the ventilation fans are in operation.

(9) Ventilation. The spraying operation shall take place within a spray area which is adequately ventilated to remove solvent vapors released from the operation.

[Order 73-5, § 296-24-37017, filed 5/9/73 and Order 73-4, § 296-24-37017, filed 5/7/73.]

WAC 296-24-37019 Drying, curing, or fusion apparatus. (1) Conformance. Drying, curing, or fusion apparatus in connection with spray application of flammable and combustible finishes shall conform to the Standard for Ovens and Furnaces, NFPA 86A-1969, where applicable and shall also conform with the following requirements of this section.

(2) Alternate use prohibited. Spray booths, rooms, or other enclosures used for spraying operations shall not alternately be used for the purpose of drying by any arrangement which will cause a material increase in the surface temperature of the spray booth, room, or enclosure.

(3) Adjacent system interlocked. Except as specifically provided in (4) of this section, drying, curing, or fusion units utilizing a heating system having open flames or which may produce sparks shall not be installed in a spraying area, but may be installed adjacent thereto when equipped with an interlocked ventilating system arranged to:

(a) Thoroughly ventilate the drying space before the heating system can be started;

(b) Maintain a safe atmosphere at any source of ignition;

(c) Automatically shut down the heating system in the event of failure of the ventilating system.

(4) Alternate use permitted. Automobile refinishing spray booths or enclosures, otherwise installed and maintained in full conformity with this section, may alternately be used for drying with portable electrical infrared drying apparatus when conforming with the following:

(a) Interior (especially floors) of spray enclosures shall be kept free of overspray deposits.

(b) During spray operations, the drying apparatus and electrical connections and wiring thereto shall not be located within spray enclosure nor in any other location where spray residues may be deposited thereon.

(c) The spraying apparatus, the drying apparatus, and the ventilating system of the spray enclosure shall be equipped with suitable interlocks so arranged that:

(i) The spraying apparatus cannot be operated while the drying apparatus is inside the spray enclosure.

(ii) The spray enclosure will be purged of spray vapors for a period of not less than 3 minutes before the drying apparatus can be energized.

(iii) The ventilating system will maintain a safe atmosphere within the enclosure during the drying process and the drying process apparatus will automatically shut off in the event of failure of the ventilating system.

(d) All electrical wiring and equipment of the drying apparatus shall conform with the applicable sections of chapter 296-24 WAC Part L. Only equipment of a type approved for Class I, Division 2 hazardous locations shall be located within 18 inches of floor level. All metallic parts of the drying apparatus shall be properly electrically bonded and grounded.

(e) The drying apparatus shall contain a prominently located, permanently attached warning sign indicating that ventilation should be maintained during the drying period and that spraying should not be conducted in the vicinity that spray will deposit on apparatus.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-37019, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-37019, filed 4/19/85; Order 76-6, § 296-24-37019, filed 3/1/76; Order 73-5, § 296-24-37019, filed 5/9/73 and Order 73-4, § 296-24-37019, filed 5/7/73.]

WAC 296-24-37021 Automobile undercoating in garages. Automobile undercoating spray operations in garages, conducted in areas having adequate natural or mechanical ventilation, are exempt from the requirements pertaining to spray finishing operations, when using undercoating materials not more hazardous than kerosene (as listed by Underwriters' Laboratories in respect to fire hazard rating 30-40) or undercoating materials using only solvents listed as having a flash point in excess of 100°F. Undercoating spray operations not conforming to these provisions are subject to all requirements of WAC 296-24-370 through 296-24-37027, pertaining to spray finishing operations.

[Order 73-5, § 296-24-37021, filed 5/9/73 and Order 73-4, § 296-24-37021, filed 5/7/73.]

WAC 296-24-37023 Powder coating. (1) Electrical and other sources of ignition. Electrical equipment and other sources of ignition shall conform to the requirements of WAC 296-24-37005 and chapter 296-24 WAC Part L.

(2) Ventilation.

(a) In addition to the provisions of WAC 296-24-37007, where applicable, exhaust ventilation shall be sufficient to maintain the atmosphere below the lowest explosive limits for the materials being applied. All nondeposited air-suspended powders shall be safely removed via exhaust ducts to the powder recovery cyclone or receptacle. Each installation shall be designed and operated to meet the foregoing performance specification.

(b) Powders shall not be released to the outside atmosphere.

(3) Drying, curing, or fusion equipment. The provisions of the Standard for Ovens and Furnaces, NFPA No. 86A-1969 shall apply where applicable.

(4) Operation and maintenance.

(a) All areas shall be kept free of the accumulation of powder coating dusts, particularly such horizontal surfaces as ledges, beams, pipes, hoods, booths, and floors.

(b) Surfaces shall be cleaned in such manner as to avoid scattering dust to other places or creating dust clouds.

(c) "No smoking" signs in large letters on contrasting color background shall be conspicuously posted at all powder coating areas and powder storage rooms.

(5) Fixed electrostatic spraying equipment. The provisions of WAC 296-24-37015 and other subsections of this section shall apply to fixed electrostatic equipment, except that electrical equipment not covered therein shall conform to (1) of this section.

(6) Electrostatic hand spraying equipment. The provisions of WAC 296-24-37017 and other subsections of this section, shall apply to electrostatic handguns when used in powder coating, except that electrical equipment not covered therein shall conform to (1) of this section.

(7) Electrostatic fluidized beds.

(a) Electrostatic fluidized beds and associated equipment shall be of approved types. The maximum surface temperature of this equipment in the coating area shall not exceed 150°F. The high voltage circuits shall be so designed as to not produce a spark of sufficient intensity to ignite any powder-air mixtures nor result in appreciable shock hazard upon coming in contact with a grounded object under normal operating conditions.

(b) Transformers, powerpacks, control apparatus, and all other electrical portions of the equipment, with the exception of the charging electrodes and their connections to the power supply shall be located outside of the powder coating area or shall otherwise conform to the requirements of (1) of this section.

(c) All electrically conductive objects within the charging influence of the electrodes shall be adequately grounded. The powder coating equipment shall carry a prominent, permanently installed warning regarding the necessity for grounding these objects.

(d) Objects being coated shall be maintained in contact with the conveyor or other support in order to insure proper grounding. Hangers shall be regularly cleaned to insure effective contact and areas of contact shall be sharp points or knife edges where possible.

(e) The electrical equipment shall be so interlocked with the ventilation system that the equipment cannot be operated unless the ventilation fans are in operation.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-37023, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-37023, filed 4/19/85; Order 76-6, § 296-24-37023, filed 3/1/76; Order 73-5, § 296-24-37023, filed 5/9/73 and Order 73-4, § 296-24-37023, filed 5/7/73.]

WAC 296-24-37025 Organic peroxides and dual component coatings. (1) Conformance. All spraying operations involving the use of organic peroxides and other dual component coatings shall be conducted in approved sprinklered spray booths meeting the requirements of this section.

(2) Smoking. Smoking shall be prohibited and "no smoking" signs shall be prominently displayed and only nonsparking tools shall be used in any area where organic peroxides are stored, mixed or applied.

[Order 73-5, § 296-24-37025, filed 5/9/73 and Order 73-4, § 296-24-37025, filed 5/7/73.]

WAC 296-24-37027 Scope. This section applies to flammable and combustible finishing materials when applied as a spray by compressed air, "airless" or "hydraulic atomization, " steam, electrostatic methods, or by any other means in

continuous or intermittent processes. The section also covers the application of combustible powders by powder spray guns, electrostatic powder spray guns, fluidized beds, or electrostatic fluidized beds. The section does not apply to outdoor spray application of buildings, tanks or other similar structures, nor to small portable spraying apparatus not used repeatedly in the same location.

[Order 73-5, § 296-24-37027, filed 5/9/73 and Order 73-4, § 296-24-37027, filed 5/7/73.]

WAC 296-24-405 Dip tanks containing flammable or combustible liquids.

[Order 73-5, § 296-24-405, filed 5/9/73 and Order 73-4, § 296-24-405, filed 5/7/73.]

WAC 296-24-40501 Definitions. (1) Dip tank. Shall mean a tank, vat, or container of flammable or combustible liquid in which articles or materials are immersed for the purpose of coating, finishing, treating, or similar processes.

(2) Vapor area. Shall mean any area containing dangerous quantities of flammable vapors in the vicinity of dip tanks, their drainboards or associated drying, conveying, or other equipment during operation or shutdown periods.

(3) Approved. Unless otherwise indicated, approval or listing by a nationally recognized testing laboratory. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(4) Listed. See "approved" in subsection (3) of this section.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-40501, filed 11/14/88; Order 73-5, § 296-24-40501, filed 5/9/73 and Order 73-4, § 296-24-40501, filed 5/7/73.]

WAC 296-24-40503 Ventilation. (1) Vapor area ventilation. Vapor areas as defined in WAC 296-24-40501(2) shall be limited to the smallest practical space by maintaining a properly designed system of mechanical ventilation arranged to move air from all directions towards the vapor area origin and thence to a safe outside location. Ventilating systems shall conform to the Standards for Blower and Exhaust Systems (NFPA Pamphlet No. 91-1969). Required ventilating systems shall be so arranged that the failure of any ventilating fan shall automatically stop any dipping conveyor system. See also WAC 296-24-40505(6).

(2) Ventilation combined with drying. When a required ventilating system serves associated drying operations utilizing a heating system which may be a source of ignition, means shall be provided for preventilation before the heating system can be started; the failure of any ventilating fan shall automatically shut down the heating system; and the installation shall otherwise conform to the Standard for Ovens and Furnaces (NFPA No. 86A-1969).

[Order 73-5, § 296-24-40503, filed 5/9/73 and Order 73-4, § 296-24-40503, filed 5/7/73.]

WAC 296-24-40505 Construction of dip tanks. (1) General. Dip tanks, including drainboards if provided, shall be constructed of substantial noncombustible material, and their supports shall be of heavy metal, reinforced concrete, or masonry. Where dip tanks extend through a floor to the story below or where the weakening of the tank supports by fire may result in the tank collapse, supports should be of material having not less than 1-hour fire resistance.

(2) Overflow pipes.

(a) Dip tanks of over 150 gallons in capacity or 10 square feet in liquid surface area shall be equipped with a properly trapped overflow pipe leading to a safe location outside buildings. Smaller dip tanks should also be so equipped, where practical. The discharge of the overflow pipe should be so located and arranged that if the entire combustible contents of the dip tank is overflowed through overflow pipe by the application of water during fire fighting, property will not be endangered. The size of the overflow pipe should be sufficient to conduct the maximum rate of flow of water expected to be applied to the liquid surface of the dip tank from automatic sprinklers or from other sources in the event of fire.

(b) Overflow pipes shall be of sufficient capacity to overflow the maximum delivery of dip tank liquid fill pipes but shall not be less than 3 inches in diameter and shall be increased in size depending upon the area of the liquid surface and the length and pitch of pipe.

(c) Piping connections on drains and overflow lines shall be designed so as to permit ready access for inspection and cleaning of the interior.

(d) The bottom of the overflow connection shall be not less than 6 inches below the top of the tank. See also (6) of this section and WAC 296-24-40513 (3)(b).

(3) Bottom drains.

(a) Dip tanks over 500 gallons in liquid capacity shall be equipped with bottom drains automatically and manually arranged to quickly drain the tank in the event of fire, unless the viscosity of the liquid at normal atmospheric temperature makes this impractical. Manual operation shall be from a safely accessible location. Where gravity flow is not practicable, automatic pumps shall be required.

(b) Such drain shall be trapped and discharge to a closed properly vented salvage tank or to a safe location outside which will not endanger property.

(c) According to tank capacity the diameter of bottom drainpipe shall be not less than the following:

Gallons:	Inches
500 to 750	3
750 to 1,000	4
1,000 to 2,500	5
2,500 to 4,000	6
Over 4,000	8

(4) Salvage tanks. The capacity of the salvage tank shall be greater than the capacity of the dip tank or tanks to which they are connected.

(5) Automatic extinguishing facilities. Except as noted in WAC 296-24-40515(1) (applying to hardening and tempering tanks), all dip tanks exceeding 150 gallons liquid capacity or having a liquid surface area exceeding 4 square feet shall be protected with at least one of the automatic extinguishing facilities conforming to WAC 296-24-40513 (2), (3), (4), (5) or (6).

(6) Conveyor systems. Dip tanks utilizing a conveyor system shall be so arranged that in the event of fire, the conveyor system shall automatically cease motion and required

bottom drains shall open. Conveyor systems shall automatically cease motion unless required ventilation is in full operation. See also WAC 296-24-40503(1).

(7) Heating dip tank liquids. When dip tank liquids are artificially heated, either by the dipping of heated articles, or by other application of heat to the liquid, provision shall be made to prevent a temperature rise greater than 50°F below the flashpoint of the liquid. See also WAC 296-24-40515(1).

[Order 73-5, § 296-24-40505, filed 5/9/73 and Order 73-4, § 296-24-40505, filed 5/7/73.]

WAC 296-24-40507 Liquids used in dip tanks, storage and handling. The storage of flammable and combustible liquids in connection with dipping operation shall conform to the requirements of WAC 296-24-330, where applicable. Where portable containers are used for the replenishment of flammable and combustible liquids, provision shall be made so that both the container and tank shall be positively grounded and electrically bonded to prevent static electric sparks.

[Order 73-5, § 296-24-40507, filed 5/9/73 and Order 73-4, § 296-24-40507, filed 5/7/73.]

WAC 296-24-40509 Electrical and other sources of ignition. (1) Vapor areas.

(a) There shall be no open flames, spark producing devices, or heated surfaces having a temperature sufficient to ignite vapors in any vapor area. Except as specifically permitted in WAC 296-24-40515(3), relating to electrostatic apparatus, electrical wiring and equipment in any vapor area (as defined in WAC 296-24-40501(2)) shall be explosion proof type as required by chapter 296-24 WAC Part L for Class I, locations and shall otherwise conform to the requirements of chapter 296-24 WAC Part L.

(b) Unless specifically approved for locations containing both deposits of readily ignitable residues and explosive vapors, there shall be no electrical equipment in the vicinity of dip tanks or associated drainboards or drying operations which are subject to splashing or dripping of dip tank liquids, except wiring in rigid conduit or in threaded boxes or fittings containing no taps, splices, or terminal connections, and except as specifically permitted in WAC 296-24-40515(3).

(2) Adjacent areas. In any floor space outside a vapor area but within 20 feet and not separated by tight partitions, there shall be no open flames or spark producing devices except as specifically permitted in NFPA Standard No. 86A-1969, Ovens and Furnaces, paragraph 200-7. Electrical wiring and equipment shall conform to the provisions of chapter 296-24 WAC Part L.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-40509, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-40509, filed 4/19/85; Order 76-6, § 296-24-40509, filed 3/1/76; Order 73-5, § 296-24-40509, filed 5/9/73 and Order 73-4, § 296-24-40509, filed 5/7/73.]

WAC 296-24-40511 Operations and maintenance. (1) General. Areas in the vicinity of dip tanks shall be kept as clear of combustible stock as practical and shall be kept entirely free of combustible debris.

(2) Waste cans. When waste or rags are used in connection with dipping operations, approved metal waste cans shall be provided and all impregnated rags or waste deposited therein immediately after use. The contents of waste cans shall be properly disposed of at least once daily at the end of each shift.

(3) Inspection. Periodic inspection or tests of all dip tank facilities shall be made, including covers, overflow pipe inlets and discharge, bottom drains and valves, electrical wiring and equipment and grounding connections, ventilating facilities, and all extinguishing equipment. Any defects found shall be promptly corrected.

(4) Warning signs. "No smoking" signs in large letters on contrasting color background shall be conspicuously posted in the vicinity of dip tanks.

[Order 73-5, § 296-24-40511, filed 5/9/73 and Order 73-4, § 296-24-40511, filed 5/7/73.]

WAC 296-24-40513 Extinguishment. (1) Extinguishers. Areas in the vicinity of dip tanks shall be provided with manual fire extinguishers suitable for flammable and combustible liquid fires, conforming to WAC 296-24-592.

(2) Automatic water spray extinguishing systems. Automatic water spray extinguishing systems shall conform to WAC 296-24-627 and shall be arranged to protect tanks, drainboards, and stock over drainboards.

(3) Automatic foam extinguishing systems. Automatic foam extinguishing systems shall conform to WAC 296-24-627 and;

(a) Foam producing material selected shall be suitable for intended use, taking into account characteristics of the dip tank liquid;

(b) Overflow pipe shall be arranged to prevent the floating away of foam and clogging overflow pipe. This may be accomplished by either of the following:

(i) Overflow pipe may be extended through tank wall and terminated in an ell pointing downward. The bottom of the overflow pipe at the point it pierces tank wall should not be over 2 inches above the opening or face of the ell.

(ii) Overflow pipe inlet may be provided with a removable screen of 1/4-inch mesh having an area at least twice the cross-sectional area of overflow pipe. Screens which may be clogged by dip tank ingredients shall be inspected and cleaned periodically.

(4) Automatic carbon dioxide systems. Automatic carbon dioxide systems shall conform to WAC 296-24-623 and shall be arranged to protect both dip tanks and drainboards and unless stock over drainboards is otherwise protected with automatic extinguishing facilities, shall also be arranged to protect such stock.

(5) Dry chemical extinguishing systems. Dry chemical extinguishing systems shall conform to WAC 296-24-622 and shall be arranged to protect both dip tanks and drainboards, and unless stock over drainboards is otherwise protected with automatic extinguishing facilities, shall also be arranged to protect such stock.

(6) Dip tank covers.

(a) Covers arranged to close automatically in the event of fire shall be actuated by approved automatic devices and shall also be arranged for manual operation.

(b) Covers shall be of substantial noncombustible material or of tin-clad type with enclosing metal applied with locked joints.

(c) Chains or wire rope shall be used for cover support or operating mechanism where the burning of a cord would interfere with the action of a device.

(d) Covers shall be kept closed when tanks are not in use.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-40513, filed 12/24/81; Order 73-5, § 296-24-40513, filed 5/9/73 and Order 73-4, § 296-24-40513, filed 5/7/73.]

WAC 296-24-40515 Special dip tank applications. (1) Hardening and tempering tanks.

(a) Tanks shall be located as far as practicable from furnaces and shall not be located on or near combustible floors.

(b) Tanks shall be provided with a noncombustible hood and vent or other equally effective means of venting to the outside of the building to serve as a vent in case of fire. All such vent ducts shall be treated as flues and be kept well away from combustible roofs or materials.

(c) Tanks shall be so designed that the maximum workload is incapable of raising the temperature of the cooling medium to within 50° below its flashpoint, or such tanks shall be equipped with circulating cooling systems which will accomplish the same result.

(d) Tanks shall be equipped with a high temperature limit switch arranged to sound an alarm when the temperature of the quenching medium reaches within 50°F below the flashpoint. If practical from an operating standpoint, such limit switches shall also shut down conveying equipment supplying work to the tank.

(e) The provisions of WAC 296-24-40505(5) shall apply to tanks having a liquid surface area of 25 square feet or more or a capacity of 500 gallons or more.

(f) Air under pressure shall not be used to fill or to agitate oil tanks.

(g) Drain facilities from the bottom of the tank may be combined with the oil circulating system or arranged independently to drain the oil to a safe location. The drain valve shall be operated automatically with approved heat actuated devices or manually, and if the latter, the valve shall be operated from a safe distance.

(2) Flow coat; general.

(a) Except as modified in this subsection, all of the preceding standards for dip tanks apply.

(b) All piping shall be strongly erected and rigidly supported.

(c) Paint shall be supplied by direct low-pressure pumping arranged to automatically shut down by means of approved heat actuated devices, in the case of fire, or paint may be supplied by a gravity tank not exceeding 10 gallons in capacity.

(d) The area of the sump and any areas on which paint flows should be considered the area of dip tank.

(3) Electrostatic apparatus; general.

(a) Installation and use of electrostatic detearing equipment shall conform to WAC 296-24-40501 through 296-24-40513.

(b) Electrostatic apparatus and devices used in connection with paint detearing operations shall be of approved types.

(c) Transformers, powerpacks, control apparatus, and all other electrical portions of the equipment, with the exception of high voltage grids and their connections, shall be located outside the vapor area or shall conform to the requirements of WAC 296-24-40509.

(d) Electrodes shall be of substantial construction, shall be rigidly supported in permanent locations and shall be effectively insulated from ground. Insulators shall be nonporous and noncombustible.

(e) High voltage leads to electrodes shall be effectively and permanently supported on suitable insulators, and shall be effectively guarded against accidental contact or grounding. An automatic means shall be provided for grounding and discharging any accumulated residual charge on the electrode assembly or the secondary circuit of the high voltage transformer when the transformer primary is disconnected from the source of supply.

(f) A space shall be maintained between goods being deteared and electrodes or conductors of at least twice the sparking distance. A suitable sign stating the sparking distance shall be conspicuously posted near the assembly.

(g) Goods being deteared using this electrostatic process are to be supported on conveyors. The conveyors shall be so arranged as to maintain safe distances between the goods and the electrodes at all times. All goods shall be so supported as to prevent any swinging or movement which would reduce the clearance to less than specified in (3)(f) of this section.

(h) This electrostatic process is not approved where goods being deteared are manipulated by hand.

(i) Electrostatic apparatus shall be equipped with automatic controls which will operate without time delay to disconnect the power supply to the high voltage transformer and to signal the operator under any of the following conditions:

(i) Stoppage of ventilating fans or failure of ventilating equipment from any cause.

(ii) Stoppage of the conveyor carrying goods past the high voltage grid.

(iii) Occurrence of a ground or of an imminent ground at any point on the high voltage system.

(iv) Reduction of clearance below that specified in (3)(f) of this section.

(j) Adequate fencing, railings, or guards shall be so placed about the equipment that they, either by their location or character or both, assure that a safe isolation of the process is maintained from plant storage or personnel. Such railings, fencing and guards shall be of conducting material, adequately grounded, and should be at least 5 feet from processing equipment.

(k) Electrode insulators shall be kept clean and dry.

(l) The detearing area shall be ventilated by exhausting adequate air from the area as specified in WAC 296-24-40503.

(m) All areas for detearing shall be protected by automatic sprinklers where this protection is available. Where this protection is not available, other approved automatic extinguishing equipment shall be provided.

(n) Drip plates and screens subject to paint deposits shall be removable and shall be taken to a safe place for cleaning.

(4) Roll coating.

(a) The processes of roll coating, spreading, and impregnating, in which fabrics, paper, or other materials are passed directly through a tank or through containing flammable or combustible liquids, or over the surface of a roller that revolves partially submerged in a Class I or Class II liquid, as these terms are defined in WAC 296-24-33001, shall conform to the applicable requirements of WAC 296-24-40501 through 296-24-40513.

(b) Adequate arrangements shall be made to prevent sparks from static electricity by electrically bonding and grounding all metallic rotating and other parts of machinery and equipment and by the installation of static collectors or maintaining a conductive atmosphere such as a high relative humidity.

[Order 76-6, § 296-24-40515, filed 3/1/76; Order 74-27, § 296-24-40515, filed 5/7/74; Order 73-5, § 296-24-40515, filed 5/9/73 and Order 73-4, § 296-24-40515, filed 5/7/73.]

WAC 296-24-450 Chlorine cylinders used in chlorinator systems. Ventilation, storage of tanks and use of tanks shall meet specifications of The Chlorine Manual, The Chlorine Institute, Inc., fifth edition, 1986.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-450, filed 1/10/91, effective 2/12/91; Order 74-27, § 296-24-450, filed 5/7/74.]

PART F-1
STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES

WAC 296-24-475 Storage and handling of liquefied petroleum gases.

[Order 73-5, § 296-24-475, filed 5/9/73 and Order 73-4, § 296-24-475, filed 5/7/73.]

WAC 296-24-47501 Definitions. (1) API-ASME container. A container constructed in accordance with the requirements of WAC 296-24-47505 (3)(a).

(2) ASME container. A container constructed in accordance with the requirements of WAC 296-24-47505 (3)(a).

(3) Container assembly. An assembly consisting essentially of the container and fittings for all container openings, including shutoff valves, excess flow valves, liquid-level gaging devices, safety relief devices, and protective housing.

(4) Containers. All vessels, such as tanks, cylinders, or drums, used for transportation or storing liquefied petroleum gases.

(5) DOT. Department of transportation.

(6) DOT container. A container constructed in accordance with the applicable requirements of 49 CFR chapter 1.

(7) "Liquefied petroleum gases." "LPG" and "LP-gas." Any material which is composed predominantly of any of the following hydrocarbons, or mixtures of them; propane, propylene, butanes (normal butane or iso-butane), and butylenes.

(8) Movable fuel storage tenders or farm carts. Containers not in excess of 1,200 gallons water capacity, equipped with wheels to be towed from one location of usage to another. They are basically nonhighway vehicles, but may occasionally be moved over public roads or highways. They are used as a fuel supply for farm tractors, construction machinery and similar equipment.

(9) P.S.I.G. Pounds per square inch gauge.

(10) P.S.I.A. Pounds per square inch absolute.

(11) Systems. An assembly of equipment consisting essentially of the container or containers, major devices such as vaporizers, safety relief valves, excess flow valves, regulators, and piping connecting such parts.

(12) Vaporizer-burner. An integral vaporizer-burner unit, dependent upon the heat generated by the burner as the source of heat to vaporize the liquid used for dehydrators or dryers.

(13) Ventilation, adequate. When specified for the prevention of fire during normal operation, ventilation shall be considered adequate when the concentration of the gas in a gas-air mixture does not exceed 25 percent of the lower flammable limit.

(14) Approved. Unless otherwise indicated, listing or approval by a nationally recognized testing laboratory. Refer to 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(15) Listed. See "approved" in WAC 296-24-47501(14).

(16) DOT specifications. Regulations of the department of transportation published in 49 CFR chapter I.

(17) DOT regulations. See WAC 296-24-47501(16).

(18) DOT requirements. See WAC 296-24-47501(16).

(19) DOT cylinders. Cylinders meeting the requirements of 49 CFR chapter I.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-47501, filed 11/14/88; Order 73-5, § 296-24-47501, filed 5/9/73 and Order 73-4, § 296-24-47501, filed 5/7/73.]

WAC 296-24-47503 Scope. (1) Application. (a) WAC 296-24-47505 applies to installations made in accordance with the requirements of WAC 296-24-47507 through 296-24-47511, 296-24-47515 and 296-24-47517, except as noted in each of those sections.

(b) WAC 296-24-47507 through 296-24-47517 apply as provided in each of those sections.

(2) Inapplicability. These sections do not apply to:

(a) Marine and pipeline terminals, natural gas processing plants, refineries, or tank farms other than those at industrial sites.

(b) LP-gas refrigerated storage systems;

(c) LP-gas when used with oxygen. The requirements of WAC 296-24-680 through 296-24-722 shall apply to such use;

(d) LP-gas when used in utility gas plants. The National Fire Protection Association Standard for the Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants, NFPA No. 59-1968, shall apply to such use;

(e) Low-pressure (not in excess of one-half pound per square inch or 14 inches water column) LP-gas piping systems, and the installation and operation of residential and commercial appliances including their inlet connections, supplied through such systems. For such systems, the National Fire Protection Association Standard for the Installation of Gas Appliances and Gas Piping, NFPA 54-1969 shall apply.

(3) Retroactivity. Unless otherwise stated, it is not intended that the provisions of these sections be retroactive.

(a) Existing plants, appliances, equipment, buildings, structures, and installations for the storage, handling or use of LP-gas, which were in compliance with the current provisions of the National Fire Protection Association Standard for the Storage and Handling of Liquefied Petroleum Gases NFPA No. 58-1972, 1973 at the time of manufacture or installation may be continued in use, if such continued use does not constitute a recognized hazard that is causing or is likely to cause death or serious physical harm to employees.

(b) Stocks of equipment and appliances on hand in such locations as manufacturers' storage, distribution warehouses, and dealers' storage and showrooms, which were in compliance with the current provisions of the National Fire Protection Association Standard for the Storage and Handling of Liquefied Petroleum Gases, NFPA No. 58-1972, 1973, at the time of manufacture, may be placed in service, if such use does not constitute a recognized hazard that is causing or is likely to cause death or serious physical harm to employees.

[Order 73-5, § 296-24-47503, filed 5/9/73 and Order 73-4, § 296-24-47503, filed 5/7/73.]

WAC 296-24-47505 Basic rules. (1) Odorizing gases.

(a) All liquefied petroleum gases shall be effectively odorized by an approved agent of such character as to indicate positively, by distinct odor, the presence of gas down to concentration in air of not over one-fifth the lower limit of flammability. Odorization, however, is not required if harmful in the use of further processing of the liquefied petroleum gas, or if odorization will serve no useful purpose as a warning agent in such use or further processing.

(b) The odorization requirement of (a) of this subsection shall be considered to be met by the use of 1.0 pounds of ethyl mercaptan, 1.0 pounds of thiophane or 1.4 pounds of amyl mercaptan per ten thousand gallons of LP-gas. However, this listing of odorants and quantities shall not exclude the use of other odorants that meet the odorization requirements of (a) of this subsection.

(2) Approval of equipment and systems.

(a) Each system utilizing DOT containers in accordance with 49 CFR Part 178 shall have its container valves, connectors, manifold valve assemblies, and regulators approved.

(b) Each system for domestic or commercial use utilizing containers of two thousand gallons or less water capacity, other than those constructed in accordance with 49 CFR Part 178, shall consist of a container assembly and one or more regulators, and may include other parts. The system as a unit or the container assembly as a unit, and the regulator or regulators, shall be individually listed.

(c) In systems utilizing containers of over two thousand gallons water capacity, each regulator, container, valve, excess flow valve, gaging device, and relief valve installed on or at the container, shall have its correctness as to design, construction, and performance determined by listing by a nationally recognized testing laboratory. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(d) The provisions of subsection (3)(a) of this section shall not be construed as prohibiting the continued use or reinstallation of containers constructed and maintained in accordance with the standard for the Storage and Handling of Liquefied Petroleum Gases NFPA No. 58 in effect at the time of fabrication.

(e) Containers used with systems embodied in this section and WAC 296-24-47509 (3)(c) and 296-24-47513, shall be constructed, tested, and stamped in accordance with DOT specifications effective at the date of their manufacture.

(3) Requirements for construction and original test of containers.

(a) Containers used with systems embodied in WAC 296-24-47509, 296-24-47513 through 296-24-47517, except as provided in WAC 296-24-47511 (3)(c) and 296-24-47515 (2)(a), shall be designed, constructed, and tested in accordance with the Rules for Construction of Unfired Pressure Vessels, section VIII, Division 1, American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 1968 edition.

(b) Containers constructed according to the 1949 and earlier editions of the ASME Code do not have to comply with U-2 through U-10 and U-19 thereof. Containers constructed according to U-70 in the 1949 and earlier editions do not meet the requirements of this section.

(c) Containers designed, constructed, and tested prior to July 1, 1961, according to the Code for Unfired Pressure Vessels for Petroleum Liquids and Gases, 1951 edition with 1954 Addenda, of the American Petroleum Institute and the American Society of Mechanical Engineers shall be considered in conformance. Containers constructed according to API-ASME Code do not have to comply with section I or with appendix to section I. W-601 to W-606 inclusive in the 1943 and earlier editions do not apply.

(4) Welding of containers.

(a) Welding to the shell, head, or any other part of the container subject to internal pressure, shall be done in compliance with the code under which the tank was fabricated. Other welding is permitted only on saddle plates, lugs, or brackets attached to the container by the tank manufacturer.

(b) Where repair or modification involving welding of DOT containers is required, the container shall be returned to a qualified manufacturer making containers of the same type, and the repair or modification made in compliance with DOT regulations.

(5) Markings on container.

(a) Each container covered in subsection (3)(a) of this section except as provided in subsection (2)(d) of this section shall be marked as specified in the following:

(i) With a marking identifying compliance with, and other markings required by, the rules of the reference under which the container is constructed; or with the stamp and other markings required by the laws, rules or regulations as administered by the state of Washington, department of labor and industries pertaining to such containers.

(ii) With notation as to whether the container is designed for underground or aboveground installation or both. If intended for both and different style hoods are provided, the marking shall indicate the proper hood for each type of installation.

(iii) With the name and address of the supplier of the container, or with the trade name of the container.

(iv) With the water capacity of the container in pounds or gallons, United States standard.

(v) With the pressure in p.s.i.g., for which the container is designed.

(vi) With the wording "This container shall not contain a product having a vapor pressure in excess of—p.s.i.g. at 100°F, " see WAC 296-24-47509, Table H-31.

(vii) With the tare weight in pounds or other identified unit of weight for containers with a water capacity of three hundred pounds or less.

(viii) With marking indicating the maximum level to which the container may be filled with liquid at temperatures between 20°F and 130°F, except on containers provided with fixed maximum level indicators or which are filled by weighing. Markings shall be increments of not more than 20°F. This marking may be located on the liquid level gaging device.

(ix) With the outside surface area in square feet.

(b) Markings specified shall be on a metal nameplate attached to the container and located in such a manner as to remain visible after the container is installed.

(c) When LP-gas and one or more other gases are stored or used in the same area, the containers shall be marked to identify their content. Marking shall be in compliance with American National Standard Z48.1-1954, "Method of Marking Portable Compressed Gas Containers to Identify the Material Contained."

(6) Location of containers and regulating equipment.

(a) Containers, and first stage regulating equipment if used, shall be located outside of buildings, except under one or more of the following:

(i) In buildings used exclusively for container charging, vaporization pressure reduction, gas mixing, gas manufacturing, or distribution.

(ii) When portable use is necessary and in accordance with WAC 296-24-47507(5).

(iii) LP-gas fueled stationary or portable engines in accordance with WAC 296-24-47511 (11) or (12).

(iv) LP-gas fueled industrial trucks used in accordance with WAC 296-24-47511(13).

(v) LP-gas fueled vehicles garaged in accordance with WAC 296-24-47511(14).

(vi) Containers awaiting use or resale when stored in accordance with WAC 296-24-47513.

(b) Each individual container shall be located with respect to the nearest important building or group of buildings or line of adjoining property which may be built on in accordance with Table H-23.

TABLE H-23

Water capacity per container	Minimum distances: Containers: Underground	Minimum distances: Containers: Aboveground	Minimum distances: Between aboveground containers
Less than 125 gals[1]	10 feet	None	None
125 to 250 gallons	10 feet	10 feet	None.
251 to 500 gallons	10 feet	10 feet	3 feet.
501 to 2,000 gallons	25 feet[2]	25 feet[2]	3 feet.
2,001 to 30,000 gallons	50 feet	50 feet	5 feet.
30,001 to 70,000 gallons	50 feet	75 feet	1/4 of sum diameters of adjacent containers.
70,001 to 90,000 gallons	50 feet	100 feet	1/4 of sum diameters of adjacent containers.

[1]If the aggregate water capacity of a multicontainer installation at a consumer site is five hundred one gallons or greater, the minimum distance shall comply with the appropriate portion of this table, applying the aggregate capacity rather than the capacity per container. If more than one installation is made, each installation shall be separated from another installation by at least twenty-five feet. Do not apply the MINIMUM DISTANCES BETWEEN ABOVE-GROUND CONTAINERS to such installations.

[2]Note: The above distance requirements may be reduced to not less than ten feet for a single container of one thousand two hundred gallons water capacity or less, providing such a container is at least twenty-five feet from any other LP-gas container of more than one hundred twenty-five gallons water capacity.

(c) Containers installed for use shall not be stacked one above the other.

(d) In industrial installations involving containers of one hundred eighty thousand gallons aggregate water capacity or more, where serious mutual exposures between the container and adjacent properties prevail, firewalls or other means of special protection designed and constructed in accordance with good engineering practices are required.

(e) In the case of buildings devoted exclusively to gas manufacturing and distributing operations, the distances required by Table H-23 may be reduced provided that in no case shall containers of water capacity exceeding five hundred gallons be located closer than ten feet to such gas manufacturing and distributing buildings.

(f) Readily ignitible material such as weeds and long dry grass shall be removed within ten feet of any container.

(g) The minimum separation between liquefied petroleum gas containers and flammable liquid tanks shall be twenty feet, and the minimum separation between a container and the centerline of the dike shall be ten feet. The foregoing provision shall not apply when LP-gas containers of one hundred twenty-five gallons or less capacity are installed adjacent to Class III flammable liquid tanks of two hundred seventy-five gallons or less capacity.

(h) Suitable means shall be taken to prevent the accumulation of flammable liquids under adjacent liquefied petroleum gas containers, such as by diking, diversion curbs, or grading.

(i) When dikes are used with flammable liquid tanks, no liquefied petroleum gas containers shall be located within the diked area.

(7) Container valves and container accessories.

(a) Valves, fittings, and accessories connected directly to the container including primary shutoff valves, shall have a rated working pressure of at least 250 p.s.i.g. and shall be of material and design suitable for LP-gas service. Cast iron shall not be used for container valves, fittings, and accessories. This does not prohibit the use of container valves made of malleable or nodular iron.

(b) Connections to containers, except safety relief connections, liquid level gaging devices, and plugged openings, shall have shutoff valves located as close to the container as practicable.

(c) Excess flow valves, where required shall close automatically at the rated flows of vapor or liquid as specified by the manufacturer. The connections or line including valves, fittings, etc., being protected by an excess flow valve shall have a greater capacity than the rated flow of the excess flow valve.

(d) Liquid level gaging devices which are so constructed that outward flow of container contents shall not exceed that passed by a No. 54 drill size opening, need not be equipped with excess flow valves.

(e) Openings from container or through fittings attached directly on container to which pressure gage connection is made, need not be equipped with shutoff or excess flow valves if such openings are restricted to not larger than No. 54 drill size opening.

(f) Except as provided in WAC 296-24-47507 (5)(a)(ii), excess flow and back pressure check valves where required by this section shall be located inside of the container or at a point outside where the line enters the container; in the latter case, installation shall be made in such manner that any undue strain beyond the excess flow or back pressure check valve will not cause breakage between the container and such valve.

(g) Excess flow valves shall be designed with a bypass, not to exceed a No. 60 drill size opening to allow equalization of pressures.

(h) Containers of more than thirty gallons water capacity and less than two thousand gallons water capacity, filled on a volumetric basis, and manufactured after December 1, 1963, shall be equipped for filling into the vapor space.

(8) Piping—Including pipe, tubing, and fittings.

(a) Pipe, except as provided in WAC 296-24-47511 (6)(a) and 296-24-47515 (10)(c) shall be wrought iron or steel (black or galvanized), brass, copper, or aluminum alloy. Aluminum alloy pipe shall be at least Schedule 40 in accordance with the specifications for Aluminum Alloy Pipe, American National Standards Institute (ANSI) H38.7-1969 (ASTM, B241-1969), except that the use of alloy 5456 is prohibited and shall be suitably marked at each end of each length indicating compliance with American National Standard Institute specifications. Aluminum alloy pipe shall be protected against external corrosion when it is in contact with dissimilar metals other than galvanized steel, or its location is subject to repeated wetting by such liquids as water (except rain water), detergents, sewage, or leaking from other piping, or it passes through flooring, plaster, masonry, or insulation. Galvanized sheet steel or pipe, galvanized inside and out, may be considered suitable protection. The maximum nominal pipe size for aluminum pipe shall be three-fourths inch and shall not be used for pressures exceeding 20 p.s.i.g. Aluminum alloy pipe shall not be installed within six inches of the ground.

(i) Vapor piping with operating pressures not exceeding 125 p.s.i.g. shall be suitable for a working pressure of at least 125 p.s.i.g. Pipe shall be at least Schedule 40 ASTM A-53-69, Grade B Electric Resistance Welded and Electric Flash Welded Pipe or equal.

(ii) Vapor piping with operating pressures over 125 p.s.i.g. and all liquid piping shall be suitable for a working pressure of at least 250 p.s.i.g. Pipe shall be at least Schedule 80 if joints are threaded or threaded and back welded. At least Schedule 40 (ASTM A-53-1969 Grade B Electric Resistance Welded and Electric Flash Welded Pipe or equal) shall be used if joints are welded, or welded and flanged.

(b) Tubing shall be seamless and of copper, brass, steel, or aluminum alloy. Copper tubing shall be of Type K or L or equivalent as covered in the Specification for Seamless Copper Water Tube, ANSI H23.1-1970 (ASTM B88-1969). Aluminum alloy tubing shall be of Type A or B or equivalent as covered in Specification ASTM B210-1968 and shall be suitably marked every eighteen inches indicating compliance with ASTM specifications. The minimum nominal wall thickness of copper tubing and aluminum alloy tubing shall be as specified in Table H-24 and Table H-25.

TABLE H-24

WALL THICKNESS OF COPPER TUBING[1]

Note: The standard size by which tube is designated is one-eighth-inch smaller than its nominal outside diameter.

Standard size (inches)	Nominal O.D. (inches)	Nominal wall thickness (inches)	
		Type K	Type L
1/4	0.375	0.035	0.030
3/8	0.500	0.049	0.035
1/2	0.625	0.049	0.040
5/8	0.750	0.049	0.042
3/4	0.875	0.065	0.045
1	1.125	0.065	0.050
1 1/4	1.375	0.065	0.055
1 1/2	1.625	0.072	0.060
2	2.125	0.083	0.070

[1]Based on data in Specification for Seamless Copper Water Tubing, ANSI H23.1-1970 (ASTM B-88-69).

TABLE H-25

WALL THICKNESS OF ALUMINUM ALLOY TUBING[1]

Outside diameter (inches)	Nominal wall thickness (inches)	
	Type A	Type B
3/8	0.035	0.049
1/2	0.035	0.049
5/8	0.042	0.049
3/4	0.049	0.058

[1]Based on data in Standard Specification for Aluminum-Alloy Drawn Seamless Coiled Tubes for Special Purpose Applications, ASTM B210-68.

Aluminum alloy tubing shall be protected against external corrosion when it is in contact with dissimilar metals other than galvanized steel, or its location is subject to repeated wetting by liquids such as water (except rainwater), deter-

gents, sewage, or leakage from other piping, or it passes through flooring, plaster, masonry, or insulation. Galvanized sheet steel or pipe, galvanized inside and out, may be considered suitable protection. The maximum outside diameter for aluminum alloy tubing shall be three-fourths inch and shall not be used for pressures exceeding 20 p.s.i.g. Aluminum alloy tubing shall not be installed within six inches of the ground.

(c) In systems where the gas in liquid form without pressure reduction enters the building, only heavy walled seamless brass or copper tubing with an internal diameter not greater than three thirty-seconds inch, and a wall thickness of not less than three sixty-fourths inch shall be used. This requirement shall not apply to research and experimental laboratories, buildings, or separate fire divisions of buildings used exclusively for housing internal combustion engines, and to commercial gas plants or bulk stations where containers are charged, nor to industrial vaporizer buildings, nor to buildings, structures, or equipment under construction or undergoing major renovation.

(d) Pipe joints may be screwed, flanged, welded, soldered, or brazed with a material having a melting point exceeding 1,000°F. Joints on seamless copper, brass, steel, or aluminum alloy gas tubing shall be made by means of approved gas tubing fittings, or soldered or brazed with a material having a melting point exceeding 1,000°F.

(e) For operating pressures of 125 p.s.i.g. or less, fittings shall be designed for a pressure of at least 125 p.s.i.g. For operating pressures above 125 p.s.i.g., fittings shall be designed for a minimum of 250 p.s.i.g.

(f) The use of threaded cast iron pipe fittings such as ells, tees, crosses, couplings, and unions is prohibited. Aluminum alloy fittings shall be used with aluminum alloy pipe and tubing. Insulated fittings shall be used where aluminum alloy pipe or tubing connects with a dissimilar metal.

(g) Strainers, regulators, meters, compressors, pumps, etc., are not to be considered as pipe fittings. This does not prohibit the use of malleable, nodular, or higher strength gray iron for such equipment.

(h) All materials such as valve seats, packing, gaskets, diaphragms, etc., shall be of such quality as to be resistant to the action of liquefied petroleum gas under the service conditions to which they are subjected.

(i) All piping, tubing, or hose shall be tested after assembly and proved free from leaks at not less than normal operating pressures. After installation, piping and tubing of all domestic and commercial systems shall be tested and proved free of leaks using a manometer or equivalent device that will indicate a drop in pressure. Test shall not be made with a flame.

(j) Provision shall be made to compensate for expansion, contraction, jarring, and vibration, and for settling. This may be accomplished by flexible connections.

(k) Piping outside buildings may be buried, above ground, or both, but shall be well supported and protected against physical damage. Where soil conditions warrant, all piping shall be protected against corrosion. Where condensation may occur, the piping shall be pitched back to the container, or suitable means shall be provided for revaporization of the condensate.

(9) Hose specifications.

(a) Hose shall be fabricated of materials that are resistant to the action of LP-gas in the liquid and vapor phases. If wire braid is used for reinforcing the hose, it shall be of corrosion-resistant material such as stainless steel.

(b) Hose subject to container pressure shall be marked "LP-gas" or "LPG" at not greater than ten-foot intervals.

(c) Hose subject to container pressure shall be designed for a bursting pressure of not less than 1,250 p.s.i.g.

(d) Hose subject to container pressure shall have its correctness as to design construction and performance determined by being listed (see WAC 296-24-47501(15)).

(e) Hose connections subject to container pressure shall be capable of withstanding, without leakage, a test pressure of not less than 500 p.s.i.g.

(f) Hose and hose connections on the low-pressure side of the regulator or reducing valve shall be designed for a bursting pressure of not less than 125 p.s.i.g. or five times the set pressure of the relief devices protecting that portion of the system, whichever is higher.

(g) Hose may be used on the low-pressure side of regulators to connect to other than domestic and commercial gas appliances under the following conditions:

(i) The appliances connected with hose shall be portable and need a flexible connection.

(ii) For use inside buildings the hose shall be of minimum practical length, but shall not exceed six feet except as provided in WAC 296-24-47507 (5)(a)(vii) and shall not extend from one room to another, nor pass through any walls, partitions, ceilings, or floors. Such hose shall not be concealed from view or used in a concealed location. For use outside of buildings, the hose may exceed this length but shall be kept as short as practical.

(iii) The hose shall be approved and shall not be used where it is likely to be subjected to temperatures above 125°F. The hose shall be securely connected to the appliance and the use of rubber slip ends shall not be permitted.

(iv) The shutoff valve for an appliance connected by hose shall be in the metal pipe or tubing and not at the appliance end of the hose. When shutoff valves are installed close to each other, precautions shall be taken to prevent operation of the wrong valve.

(v) Hose used for connecting to wall outlets shall be protected from physical damage.

(10) Safety devices.

(a) Every container except those constructed in accordance with DOT specifications and every vaporizer (except motor fuel vaporizers and except vaporizers described in subsection (11)(b)(iii) of this section and WAC 296-24-47509 (4)(e)(i)) whether heated by artificial means or not, shall be provided with one or more safety relief valves of spring-loaded or equivalent type. These valves shall be arranged to afford free vent to the outer air with discharge not less than five feet horizontally away from any opening into the building which is below such discharge. The rate of discharge shall be in accordance with the requirements of (b) or (d) of this subsection in the case of vaporizers.

(b) Minimum required rate of discharge in cubic feet per minute of air at one hundred twenty percent of the maximum permitted start to discharge pressure for safety relief valves to

be used on containers other than those constructed in accordance with DOT specification shall be as follows:

Surface area (sq. ft.)	Flow rate CFM air
20 or less	626
25	751
30	872
35	990
40	1,100
45	1,220
50	1,330
55	1,430
60	1,540
65	1,640
70	1,750
75	1,850
80	1,950
85	2,050
90	2,150
95	2,240
100	2,340
105	2,440
110	2,530
115	2,630
120	2,720
125	2,810
130	2,900
135	2,990
140	3,080
145	3,170
150	3,260
155	3,350
160	3,440
165	3,530
170	3,620
175	3,700
180	3,790
185	3,880
190	3,960
195	4,050
200	4,130
210	4,300
220	4,470
230	4,630
240	4,800
250	4,960
260	5,130
270	5,290
280	5,450
290	5,610
300	5,760
310	5,920
320	6,080
330	6,230
340	6,390
350	6,540
360	6,690
370	6,840
380	7,000
390	7,150
400	7,300
450	8,040
500	8,760
550	9,470
600	10,170
650	10,860
700	11,550
750	12,220
800	12,880
850	13,540
900	14,190
950	14,830
1,000	15,470
1,050	16,100
1,100	16,720
1,150	17,350
1,200	17,960
1,250	18,570
1,300	19,180
1,350	19,780
1,400	20,380
1,450	20,980
1,500	21,570
1,550	22,160
1,600	22,740
1,650	23,320
1,700	23,900
1,750	24,470
1,800	25,050
1,850	25,620
1,900	26,180
1,950	26,750
2,000	27,310

Surface area = total outside surface area of container in square feet.

(c) When the surface area is not stamped on the nameplate or when the marking is not legible, the area can be calculated by using one of the following formulas:

(i) Cylindrical container with hemispherical heads:

Area = Overall length x outside diameter x 3.1416.

(ii) Cylindrical container with other than hemispherical heads:

Area = (Overall length + 0.3 outside diameter) x outside diameter x 3.1416.

Note: This formula is not exact, but will give results within the limits of practical accuracy for the sole purpose of sizing relief valves.

(iii) Spherical container:

Area = Outside diameter squared x 3.1416.

Flow rate-CFM air = Required flow capacity in cubic feet per minute of air at standard conditions, 60°F and atmospheric pressure (14.7 p.s.i.a.).

The rate of discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than two thousand square feet, the required flow rate can be calculated using the formula, flow rate-CFM air $= 53.632\ A^{0.82}$.

A = Total outside surface area of the container in square feet.

Valves not marked "air" have flow rate marking in cubic feet per minute of liquefied petroleum gas. These can be converted to ratings in cubic feet per minute of air by multiplying the liquefied petroleum gas ratings by factors listed below. Air flow ratings can be converted to ratings in cubic feet per minute of liquefied petroleum gas by dividing the air ratings by the factors listed below.

AIR CONVERSION FACTORS

Container type	100	125	150	175	200
Air conversion factor	1.162	1.142	1.113	1.078	1.010

(d) Minimum required rate of discharge for safety relief valves for liquefied petroleum gas vaporizers (steam heated, water heated, and direct fired).

The minimum required rate of discharge for safety relief valves shall be determined as follows:

(i) Obtain the total surface area by adding the surface area of vaporizer shell in square feet directly in contact with LP-gas and the heat exchanged surface area in square feet directly in contact with LP-gas.

(ii) Obtain the minimum required rate of discharge in cubic feet of air per minute, at 60°F and 14.7 p.s.i.a. from (b) of this subsection, for this total surface area.

(e) Container and vaporizer safety relief valves shall be set to start-to-discharge, with relation to the design pressure of the container, in accordance with Table H-26.

TABLE H-26

Containers	Minimum (percent)	Maximum (percent)
ASME Code; Par. U-68, U-69—1949 and earlier editions	110	[1]125
ASME Code; Par. U-200, U-201—1949 edition	88	[1]100
ASME Code—1950, 1952, 1956, 1959, 1962, 1965 and 1968 (Division I) editions	88	[1]100
API—ASME Code—all editions	88	[1]100
DOT—As prescribed in 49 CFR Chapter I		

[1]Manufacturers of safety relief valves are allowed a plus tolerance not exceeding ten percent of the set pressure marked on the valve.

(f) Safety relief devices used with systems employing containers other than those constructed according to DOT specifications shall be so constructed as to discharge at not less than the rates shown in (b) of this subsection, before the pressure is in excess of one hundred twenty percent of the maximum (not including the ten percent referred to in (e) of this subsection) permitted start to discharge pressure setting of the device.

(g) In certain locations sufficiently sustained high temperatures prevail which require the use of a lower vapor pressure product to be stored or the use of a higher designed pressure vessel in order to prevent the safety valves opening as the result of these temperatures. As an alternative the tanks may be protected by cooling devices such as by spraying, by shading, or other effective means.

(h) Safety relief valves shall be arranged so that the possibility of tampering will be minimized. If pressure setting or adjustment is external, the relief valves shall be provided with approved means for sealing adjustment.

(i) Shutoff valves shall not be installed between the safety relief devices and the container, or the equipment or piping to which the safety relief device is connected except that a shutoff valve may be used where the arrangement of this valve is such that full required capacity flow through the safety relief device is always afforded.

(j) Safety relief valves shall have direct communication with the vapor space of the container at all times.

(k) Each container safety relief valve used with systems covered by WAC 296-24-47509, 296-24-47511, 296-24-47515 and 296-24-47517, except as provided in WAC 296-24-47511 (3)(c) shall be plainly and permanently marked with the following: "Container type" of the pressure vessel on which the valve is designed to be installed; the pressure in p.s.i.g. at which the valve is set to discharge; the actual rate of discharge of the valve in cubic feet per minute of air at 60°F and 14.7 p.s.i.a.; and the manufacturer's name and catalog number, for example: T200-250-4050 AIR—indicating that the valve is suitable for use on a Type 200 container, that it is set to start to discharge at 250 p.s.i.g.; and that its rate of discharge is four thousand fifty cubic feet per minute of air as determined in (b) of this subsection.

(l) Safety relief valve assemblies, including their connections, shall be of sufficient size so as to provide the rate of flow required for the container on which they are installed.

(m) A hydrostatic relief valve shall be installed between each pair of shutoff valves on liquefied petroleum gas liquid piping so as to relieve into a safe atmosphere. The start-to-discharge pressure setting of such relief valves shall not be in excess of 500 p.s.i.g. The minimum setting on relief valves installed in piping connected to other than DOT containers shall not be lower than one hundred forty percent of the container relief valve setting and in piping connected to DOT containers not lower than 400 p.s.i.g. Such a relief valve should not be installed in the pump discharge piping if the same protection can be provided by installing the relief valve in the suction piping. The start-to-discharge pressure setting of such a relief valve, if installed on the discharge side of a pump, shall be greater than the maximum pressure permitted by the recirculation device in the system.

(n) The discharge from any safety relief device shall not terminate in or beneath any building, except relief devices covered by subsection (6)(a)(i) through (vi) of this section, or WAC 296-24-47507 (4)(a) or (5).

(o) Container safety relief devices and regulator relief vents shall be located not less than five feet in any direction from air openings into sealed combustion system appliances or mechanical ventilation air intakes.

(11) Vaporizer and housing.

(a) Indirect fired vaporizers utilizing steam, water, or other heating medium shall be constructed and installed as follows:

(i) Vaporizers shall be constructed in accordance with the requirements of subsection (3)(a) through (c) of this section and shall be permanently marked as follows:

(A) With the code marking signifying the specifications to which the vaporizer is constructed.

(B) With the allowable working pressure and temperature for which the vaporizer is designed.

(C) With the sum of the outside surface area and the inside heat exchange surface area expressed in square feet.

(D) With the name or symbol of the manufacturer.

(ii) Vaporizers having an inside diameter of six inches or less exempted by the ASME Unfired Pressure Vessel Code, Section VIII of the ASME Boiler and Pressure Vessel Code—1968 shall have a design pressure not less than 250 p.s.i.g. and need not be permanently marked.

(iii) Heating or cooling coils shall not be installed inside a storage container.

(iv) Vaporizers may be installed in buildings, rooms, sheds, or lean-tos used exclusively for gas manufacturing or distribution, or in other structures of light, noncombustible construction or equivalent, well ventilated near the floor line and roof.

When vaporizing and/or mixing equipment is located in a structure or building not used exclusively for gas manufacturing or distribution, either attached to or within such a building, such structure or room shall be separated from the remainder of the building by a wall designed to withstand a static pressure of at least one hundred pounds per square foot. This wall shall have no openings or pipe or conduit passing through it. Such structure or room shall be provided with adequate ventilation and shall have a roof or at least one exterior wall of lightweight construction.

(v) Vaporizers shall have, at or near the discharge, a safety relief valve providing an effective rate of discharge in accordance with subsection (10)(d) of this section, except as provided in WAC 296-24-47509 (4)(e)(i).

(vi) The heating medium lines into and leaving the vaporizer shall be provided with suitable means for preventing the flow of gas into the heat systems in the event of tube rupture in the vaporizer. Vaporizers shall be provided with suitable automatic means to prevent liquid passing through the vaporizers to the gas discharge piping.

(vii) The device that supplies the necessary heat for producing steam, hot water, or other heating medium may be installed in a building, compartment, room, or lean-to which shall be ventilated near the floorline and roof to the outside. The device location shall be separated from all compartments or rooms containing liquefied petroleum gas vaporizers, pumps, and central gas mixing devices by a wall designed to withstand a static pressure of at least one hundred pounds per square foot. This wall shall have no openings or pipes or conduit passing through it. This requirement does not apply to the domestic water heaters which may supply heat for a vaporizer in a domestic system.

(viii) Gas-fired heating systems supplying heat exclusively for vaporization purposes shall be equipped with automatic safety devices to shut off the flow of gas to main burners, if the pilot light should fail.

(ix) Vaporizers may be an integral part of a fuel storage container directly connected to the liquid section or gas section or both.

(x) Vaporizers shall not be equipped with fusible plugs.

(xi) Vaporizer houses shall not have unprotected drains to sewers or sump pits.

(b) Atmospheric vaporizers employing heat from the ground or surrounding air shall be installed as follows:

(i) Buried underground, or

(ii) Located inside the building close to a point at which pipe enters the building provided the capacity of the unit does not exceed one quart.

(iii) Vaporizers of less than one quart capacity heated by the ground or surrounding air, need not be equipped with safety relief valves provided that adequate tests demonstrate that the assembly is safe without safety relief valves.

(c) Direct gas-fired vaporizers shall be constructed, marked, and installed as follows:

(i) In accordance with the requirements of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code—1968 that are applicable to the maximum working conditions for which the vaporizer is designed.

(ii) With the name of the manufacturer; rated BTU input to the burner; the area of the heat exchange surface in square feet; the outside surface of the vaporizer in square feet; and the maximum vaporizing capacity in gallons per hour.

(iii) Vaporizers may be connected to the liquid section or the gas section of the storage container, or both; but in any case there shall be at the container a manually operated valve in each connection to permit completely shutting off when desired, of all flow of gas or liquid from container to vaporizer.

(iv) Vaporizers with capacity not exceeding thirty-five gallons per hour shall be located at least five feet from container shutoff valves. Vaporizers having capacity of more than thirty-five gallons but not exceeding one hundred gallons per hour shall be located at least ten feet from the container shutoff valves. Vaporizers having a capacity greater than one hundred gallons per hour shall be located at least fifteen feet from container shutoff valves.

(v) Vaporizers may be installed in buildings, rooms, housings, sheds, or lean-tos used exclusively for vaporizing or mixing of liquefied petroleum gas. Vaporizing housing structures shall be of noncombustible construction, well ventilated near the floorline and the highest point of the roof. When vaporizer and/or mixing equipment is located in a structure or room attached to or within a building, such structure or room shall be separated from the remainder of the building by a wall designed to withstand a static pressure of at least one hundred pounds per square foot. This wall shall have no openings or pipes or conduit passing through it. Such structure or room shall be provided with adequate ventilation, and shall have a roof or at least one exterior wall of lightweight construction.

(vi) Vaporizers shall have at or near the discharge, a safety relief valve providing an effective rate of discharge in accordance with subsection (10)(d) of this section. The relief valve shall be so located as not to be subjected to temperatures in excess of 140°F.

(vii) Vaporizers shall be provided with suitable automatic means to prevent liquid passing from the vaporizer to the gas discharge piping of the vaporizer.

(viii) Vaporizers shall be provided with means for manually turning off the gas to the main burner and pilot.

(ix) Vaporizers shall be equipped with automatic safety devices to shut off the flow of gas to main burners if the pilot light should fail. When the flow through the pilot exceeds 2,000 B.T.U. per hour, the pilot also shall be equipped with an automatic safety device to shut off the flow of gas to the pilot should the pilot flame be extinguished.

(x) Pressure regulating and pressure reducing equipment if located within ten feet of a direct fired vaporizer shall be separated from the open flame by a substantially airtight noncombustible partition or partitions.

(xi) Except as provided in (c)(v) of this subsection, the following minimum distances shall be maintained between

direct fired vaporizers and the nearest important building or group of buildings or line of adjoining property which may be built upon:

(A) Ten feet for vaporizers having a capacity of fifteen gallons per hour or less vaporizing capacity.

(B) Twenty-five feet for vaporizers having a vaporizing capacity of sixteen to one hundred gallons per hour.

(C) Fifty feet for vaporizers having a vaporizing capacity exceeding one hundred gallons per hour.

(xii) Direct fired vaporizers shall not raise the product pressure above the design pressure of the vaporizer equipment nor shall they raise the product pressure within the storage container above the pressure shown in the second column of Table H-31.(See WAC 296-24-47509.)

(xiii) Vaporizers shall not be provided with fusible plugs.

(xiv) Vaporizers shall not have unprotected drains to sewers or sump pits.

(d) Direct gas-fired tank heaters, shall be constructed and installed as follows:

(i) Direct gas-fired tank heaters, and tanks to which they are applied, shall only be installed above ground.

(ii) Tank heaters shall be permanently marked with the name of the manufacturer, the rated B.T.U. input to the burner, and the maximum vaporizing capacity in gallons per hour.

Note: Tank heaters may be an integral part of a fuel storage container directly connected to the container liquid section, or vapor section, or both.

(iii) Tank heaters shall be provided with a means for manually turning off the gas to the main burner and pilot.

(iv) Tank heaters shall be equipped with an automatic safety device to shut off the flow of gas to main burners, if the pilot light should fail. When flow through pilot exceeds 2,000 B.T.U. per hour, the pilot also shall be equipped with an automatic safety device to shut off the flow of gas to the pilot should the pilot flame be extinguished.

(v) Pressure regulating and pressure reducing equipment if located within ten feet of a direct fired tank heater shall be separated from the open flame by a substantially airtight noncombustible partition.

(vi) The following minimum distances shall be maintained between a storage tank heated by a direct fired tank heater and the nearest important building or group of buildings or line of adjoining property which may be built upon:

(A) Ten feet for storage containers of less than five hundred gallons water capacity.

(B) Twenty-five feet for storage containers of five hundred to one thousand two hundred gallons water capacity.

(C) Fifty feet for storage containers of over one thousand two hundred gallons water capacity.

(vii) No direct fired tank heater shall raise the product pressure within the storage container over seventy-five percent of the pressure set out in the second column of Table H-31.(See WAC 296-24-47509.)

(e) The vaporizer section of vaporizer-burners used for dehydrators or dryers shall be located outside of buildings; they shall be constructed and installed as follows:

(i) Vaporizer-burners shall have a minimum design pressure of 250 p.s.i.g. with a factor of safety of five.

(ii) Manually operated positive shutoff valves shall be located at the containers to shut off all flow to the vaporizer-burners.

(iii) Minimum distances between storage containers and vaporizer-burners shall be as follows:

Water capacity per container (gallons)	Minimum distances (feet)
Less than 501	10
501 to 2,000	25
Over 2,000	50

(iv) The vaporizer section of vaporizer-burners shall be protected by a hydrostatic relief valve. The relief valve shall be located so as not to be subjected to temperatures in excess of 140°F. The start-to-discharge pressure setting shall be such as to protect the components involved, but not less than 250 p.s.i.g. The discharge shall be directed upward and away from component parts of the equipment and away from operating personnel.

(v) Vaporizer-burners shall be provided with means for manually turning off the gas to the main burner and pilot.

(vi) Vaporizer-burners shall be equipped with automatic safety devices to shut off the flow of gas to the main burner and pilot in the event the pilot is extinguished.

(vii) Pressure regulating and control equipment shall be located or protected so that the temperatures surrounding this equipment shall not exceed 140°F except that equipment components may be used at higher temperatures if designed to withstand such temperatures.

(viii) Pressure regulating and control equipment when located downstream of the vaporizer shall be designed to withstand the maximum discharge temperature of the vapor.

(ix) The vaporizer section of vaporizer-burners shall not be provided with fusible plugs.

(x) Vaporizer coils or jackets shall be made of ferrous metal or high temperature alloys.

(xi) Equipment utilizing vaporizer-burners shall be equipped with automatic shutoff devices upstream and downstream of the vaporizer section connected so as to operate in the event of excessive temperature, flame failure, and, if applicable, insufficient airflow.

(12) Filling densities.

(a) The "filling density" is defined as the percent ratio of the weight of the gas in a container to the weight of water the container will hold at 60°F. All containers shall be filled according to the filling densities shown in Table H-27.

TABLE H-27
MAXIMUM PERMITTED FILLING DENSITY

Specific gravity at 60°F (15.6°C)	Above ground containers: 0 to 1,200 U.S. gals. (1,000 imp. gal. 4,550 liters) total water cap. Percent	Above ground containers: Over 1,200 U.S. gals. (1,000 imp. gals. 4,550 liters) total water cap. Percent	Underground containers, all capacities Percent
0.496-0.503	41	44	45
.504-.510	42	45	46
.511-.519	43	46	47
.520-.527	44	47	48
.528-.536	45	48	49
.537-.544	46	49	50
.545-.552	47	50	51
.553-.560	48	51	52
.561-.568	49	52	53
.569-.576	50	53	54
.577-.584	51	54	55
.585-.592	52	55	56
.593-.600	53	56	57

(b) Except as provided in (c) of this subsection, any container including mobile cargo tanks and portable tank containers regardless of size or construction, shipped under DOT jurisdiction or constructed in accordance with 49 CFR Chapter I specifications shall be charged according to 49 CFR Chapter I requirements.

(c) Portable containers not subject to DOT jurisdiction (such as, but not limited to, motor fuel containers on industrial and lift trucks, and farm tractors covered in subsection (5) of this section, or containers recharged at the installation) may be filled either by weight, or by volume using a fixed length dip tube gaging device.

(13) LP-gas in buildings.

(a) Vapor shall be piped into buildings at pressures in excess of 20 p.s.i.g. only if the buildings or separate areas thereof,

(i) Are constructed in accordance with this section;

(ii) Are used exclusively to house equipment for vaporization, pressure reduction, gas mixing, gas manufacturing, or distribution, or to house internal combustion engines, industrial processes, research and experimental laboratories, or equipment and processes using such gas and having similar hazard;

(iii) Buildings, structures, or equipment under construction or undergoing major renovation.

(b) Liquid may be permitted in buildings as follows:

(i) Buildings, or separate areas of buildings, used exclusively to house equipment for vaporization, pressure reduction, gas mixing, gas manufacturing, or distribution, or to house internal combustion engines, industrial processes, research and experimental laboratories, or equipment and processes using such gas and having similar hazard; and when such buildings, or separate areas thereof are constructed in accordance with this section.

(ii) Buildings, structures, or equipment under construction or undergoing major renovation provided the temporary piping meets the following conditions:

(A) Liquid piping inside the building shall conform to the requirements of subsection (8) of this section, and shall not exceed three-fourths iron pipe size. Copper tubing with an outside diameter of three-fourths inch or less may be used provided it conforms to Type K of Specifications for Seamless Water Tube, ANSI H23.1-1970 (ASTM B88-1969) (see WAC 296-24-47505 Table H-24).All such piping shall be protected against construction hazards. Liquid piping inside buildings shall be kept to a minimum. Such piping shall be securely fastened to walls or other surfaces so as to provide adequate protection from breakage and so located as to subject the liquid line to lowest ambient temperatures.

(B) A shutoff valve shall be installed in each intermediate branch line where it takes off the main line and shall be readily accessible. A shutoff valve shall also be placed at the appliance end of the intermediate branch line. Such shutoff valve shall be upstream of any flexible connector used with the appliance.

(C) Suitable excess flow valves shall be installed in the container outlet line supplying liquid LP-gas to the building. A suitable excess flow valve shall be installed immediately downstream of each shutoff valve. Suitable excess flow valves shall be installed where piping size is reduced and shall be sized for the reduced size piping.

(D) Hydrostatic relief valves shall be installed in accordance with subsection (10)(m) of this section.

(E) The use of hose to carry liquid between the container and the building or at any point in the liquid line, except at the appliance connector, shall be prohibited.

(F) Where flexible connectors are necessary for appliance installation, such connectors shall be as short as practicable and shall comply with subsection (8)(b) or (9) of this section.

(G) Release of fuel when any section of piping or appliances is disconnected shall be minimized by either of the following methods:

(I) Using an approved automatic quick-closing coupling (a type closing in both directions when coupled in the fuel line), or

(II) Closing the valve nearest to the appliance and allowing the appliance to operate until the fuel in the line is consumed.

(III) Portable containers shall not be taken into buildings except as provided in subsection (6)(a) of this section.

(14) Transfer of liquids. The employer shall assure that:

(a) At least one attendant shall remain close to the transfer connection from the time the connections are first made until they are finally disconnected, during the transfer of the product.

(b) Containers shall be filled or used only upon authorization of the owner.

(c) Containers manufactured in accordance with specifications of 49 CFR Part 178 and authorized by 49 CFR Chapter 1 as a "single trip" or "nonrefillable container" shall not be refilled or reused in LP-gas service.

(d) Gas or liquid shall not be vented to the atmosphere to assist in transferring contents of one container to another,

except as provided in WAC 296-24-47511 (5)(d) and except that this shall not preclude the use of listed pump utilizing LP-gas in the vapor phase as a source of energy and venting such gas to the atmosphere at a rate not to exceed that from a No. 31 drill size opening and provided that such venting and liquid transfer shall be located not less than fifty feet from the nearest important building.

(e) Filling of fuel containers for industrial trucks or motor vehicles from industrial bulk storage containers shall be performed not less than ten feet from the nearest important masonry-walled building or not less than twenty-five feet from the nearest important building or other construction and, in any event, not less than twenty-five feet from any building opening.

(f) Filling of portable containers, containers mounted on skids, fuel containers on farm tractors, or similar applications, from storage containers used in domestic or commercial service, shall be performed not less than fifty feet from the nearest important building.

(g) The filling connection and the vent from the liquid level gages in containers, filled at point of installation, shall not be less than ten feet in any direction from air openings into sealed combustion system appliances or mechanical ventilation air intakes.

(h) Fuel supply containers shall be gaged and charged only in the open air or in buildings especially provided for that purpose.

(i) The maximum vapor pressure of the product at 100°F which may be transferred into a container shall be in accordance with WAC 296-24-47509(2) and 296-24-47511(3). (For DOT containers use DOT requirements.)

(j) Marketers and users shall exercise precaution to assure that only those gases for which the system is designed, examined, and listed, are employed in its operation, particularly with regard to pressures.

(k) Pumps or compressors shall be designed for use with LP-gas. When compressors are used they shall normally take suction from the vapor space of the container being filled and discharge to the vapor space of the container being emptied.

(l) Pumping systems, when equipped with a positive displacement pump, shall include a recirculating device which shall limit the differential pressure on the pump under normal operating conditions to the maximum differential pressure rating of the pump. The discharge of the pumping system shall be protected so that pressure does not exceed 350 p.s.i.g. If a recirculation system discharges into the supply tank and contains a manual shutoff valve, an adequate secondary safety recirculation system shall be incorporated which shall have no means of rendering it inoperative. Manual shutoff valves in recirculation systems shall be kept open except during an emergency or when repairs are being made to the system.

(m) When necessary, unloading piping or hoses shall be provided with suitable bleeder valves for relieving pressure before disconnection.

(n) Agricultural air moving equipment, including crop dryers, shall be shut down when supply containers are being filled unless the air intakes and sources of ignition on the equipment are located fifty feet or more from the container.

(o) Agricultural equipment employing open flames or equipment with integral containers, such as flame cultivators, weed burners, and, in addition, tractors, shall be shut down during refueling.

(15) Tank car or transport truck loading or unloading points and operations.

(a) The track of tank car siding shall be relatively level.

(b) A "tank car connected" sign, as covered by DOT rules, shall be installed at the active end or ends of the siding while the tank car is connected.

(c) While cars are on side track for loading or unloading, the wheels at both ends shall be blocked on the rails.

(d) The employer shall insure that an employee is in attendance at all times while the tank car, cars, or trucks are being loaded or unloaded.

(e) A backflow check valve, excess-flow valve, or a shutoff valve with means of remote closing, to protect against uncontrolled discharge of LP-gas from storage tank piping shall be installed close to the point where the liquid piping and hose or swing joint pipe is connected.

(f) Except as provided in (g) of this subsection, when the size (diameter) of the loading or unloading hoses and/or piping is reduced below the size of the tank car or transport truck loading or unloading connections, the adaptors to which lines are attached shall be equipped with either a backflow check valve, a properly sized excess flow valve, or shutoff valve with means of remote closing, to protect against uncontrolled discharge from the tank car or transport truck.

(g) The requirement of (f) of this subsection shall not apply if the tank car or transport is equipped with a quick-closing internal valve that can be remotely closed.

(h) The tank car or transport truck loading or unloading point shall be located with due consideration to the following:

(i) Proximity to railroads and highway traffic.

(ii) The distance of such unloading or loading point from adjacent property.

(iii) With respect to buildings on installer's property.

(iv) Nature of occupancy.

(v) Topography.

(vi) Type of construction of buildings.

(vii) Number of tank cars or transport trucks that may be safely loaded or unloaded at one time.

(viii) Frequency of loading or unloading.

(i) Where practical, the distance of the unloading or loading point shall conform to the distances in subsection (6)(b) of this section.

(16) Instructions. Personnel performing installation, removal, operation, and maintenance work shall be properly trained in such function.

(17) Electrical equipment and other sources of ignition.

(a) Electrical equipment and wiring shall be of a type specified by and shall be installed according to chapter 296-24 WAC Part L, for ordinary locations except that fixed electrical equipment in classified areas shall comply with subsection (18) of this section.

(b) Open flames or other sources of ignition shall not be permitted in vaporizer rooms (except those housing direct-fired vaporizers), pumphouses, container charging rooms or

other similar locations. Direct-fired vaporizers shall not be permitted in pumphouses or container charging rooms.

Note: Liquefied petroleum gas storage containers do not require lightning protection. Since liquefied petroleum gas is contained in a closed system of piping and equipment, the system need not be electrically conductive or electrically bonded for protection against static electricity (see NFPA No. 77-1972-1973, Recommended Practice for Static Electricity).

(c) Open flames (except as provided for in (b) of this subsection), cutting or welding, portable electric tools, and extension lights capable of igniting LP-gas, shall not be permitted within classified areas specified in Table H-28 of this section unless the LP-gas facilities have been freed of all liquid and vapor, or special precautions observed under carefully controlled conditions.

(18) Fixed electrical equipment in classified areas. Fixed electrical equipment and wiring installed within classified areas shall comply with Table H-28 of this section and shall be installed according to chapter 296-24 WAC Part L. This provision does not apply to fixed electrical equipment at residential or commercial installations of LP-gas systems or to systems covered by WAC 296-24-47511 or 296-24-47515.

(19) Liquid-level gaging device.

(a) Each container manufactured after December 31, 1965, and filled on a volumetric basis shall be equipped with a fixed liquid-level gage to indicate the maximum permitted filling level as provided in (e) of this subsection. Each container manufactured after December 31, 1969, shall have permanently attached to the container adjacent to the fixed level gage a marking showing the percentage full that will be shown by that gage. When a variable liquid-level gage is also provided, the fixed liquid-level gage will also serve as a means for checking the variable gage. These gages shall be used in charging containers as required in subsection (12) of this section.

(b) All variable gaging devices shall be arranged so that the maximum liquid level for butane, for a fifty-fifty mixture of butane and propane, and for propane, to which the container may be charged is readily determinable. The markings indicating the various liquid levels from empty to full shall be on the system nameplate or gaging device or part may be on the system nameplate and part on the gaging device. Dials of magnetic or rotary gages shall show whether they are for cylindrical or spherical containers and whether for aboveground or underground service. The dials of gages intended for use only on aboveground containers of over one thousand two hundred gallons water capacity shall be so marked.

(c) Gaging devices that require bleeding of the product to the atmosphere, such as the rotary tube, fixed tube, and slip tube, shall be designed so that the bleed valve maximum opening is not larger than a No. 54 drill size, unless provided with excess flow valve.

(d) Gaging devices shall have a design working pressure of at least 250 p.s.i.g.

(e) Length of tube or position of fixed liquid-level gage shall be designed to indicate the maximum level to which the container may be filled for the product contained. This level shall be based on the volume of the product at 40°F at its maximum permitted filling density for aboveground containers and at 50°F for underground containers. The employer shall calculate the filling point for which the fixed liquid level gage shall be designed according to the method in this subsection.

TABLE H-28

Part	Location	Extent of classified area[1]	Equipment shall be suitable for Class I, Group D[2]
A	Storage containers other than DOT cylinders.	Within 15 feet in all directions from connections, except connections otherwise covered in Table H-28.	Division 2.
B	Tank vehicle and tank car loading and unloading.[3]	Within 5 feet in all directions from connections regularly made or disconnected for product transfer.	Division 1.
		Beyond 5 feet but within 15 feet in all directions from a point where connections are regularly made or disconnected and within the cylindrical volume between the horizontal equator of the sphere and grade. (See Figure H-1.)	Division 2.
C	Gage vent openings other than those on DOT cylinders.	Within 5 feet in all directions from point of discharge.	Division 1.
		Beyond 5 feet but within 15 feet in all directions from point of discharge.	Division 2.
D	Relief valve discharge other than those on DOT cylinders.	Within direct path of discharge.	Division 1. NOTE—Fixed electrical equipment should preferably not be installed.
		Within 5 feet in all directions from point of discharge.	Division 1.
		Beyond 5 feet but within 15 feet in all directions from point of discharge except within the direct path of discharge.	Division 2.
E	Pumps, compressors, gas-air mixers and vaporizers other than direct fired. Indoors without ventilation	Entire room and any adjacent room not separated by a gastight partition.	Division 1.
		Within 15 feet of the exterior side of any exterior wall or roof that is not vaportight or within 15 feet of any exterior opening.	Division 2.

Part	Location	Extent of classified area[1]	Equipment shall be suitable for Class I, Group D[2]
	Indoors with adequate ventilation.[4]	Entire room and any adjacent room not separated by a gastight partition.	Division 2.
	Outdoors in open air at or abovegrade.	Within 15 feet in all directions from this equipment and within the cylindrical volume between the horizontal equator of the sphere and grade. See Figure H-1.	Division 2.
F	Service station dispensing units.	Entire space within dispenser enclosure, and 18 inches horizontally from enclosure exterior up to an elevation 4 ft. above dispenser base.	Division 1.
		Entire pit or open space beneath dispenser.	
		Up to 18 inches abovegrade within 20 ft. horizontally from any edge of enclosure. NOTE: For pits within this area, see Part F of this table.	Division 2.
G	Pits or trenches containing or located beneath LP-gas valves, pumps, compressors, regulators, and similar equipment.		
	Without mechanical ventilation.	Entire pit or trench	Division 1.
		Entire room and any adjacent room not separated by a gastight partition.	Division 2.
		Within 15 feet in all directions from pit or trench when located outdoors.	Division 2.
	With adequate mechanical ventilation.	Entire pit or trench	Division 2
		Entire room and any adjacent room not separated by a gastight partition.	Division 2.
		Within 15 feet in all directions from pit or trench when located outdoors.	Division 2.
H	Special buildings or rooms for storage of portable containers.	Entire room	Division 2.
I	Pipelines and connections containing operational bleeds, drips, vents or drains.	Within 5 ft. in all directions from point of discharge.	Division 1.
		Beyond 5 ft. from point of discharge, same as Part E of this table.	
J	Container filling:		
	Indoors without ventilation.	Entire room	Division 1.
	Indoors with adequate ventilation.[4]	Within 5 feet in all directions from connections regularly made or disconnected for product transfer.	Division 1.
		Beyond 5 feet and entire room	Division 2.
	Outdoors in open air	Within 5 feet in all directions from connections regularly made or disconnected for product transfer.	Division 1.
		Beyond 5 feet but within 15 feet in all directions from a point where connections are regularly made or disconnected and within the cylindrical volume between the horizontal equator of the sphere and grade (See Fig. H-1.)	Division 2.

[1]The classified area shall not extend beyond an unpierced wall, roof, or solid vaportight partition.

[2]See chapter 296-46 WAC, and chapter 296-24 WAC Part L.

[3]When classifying extent of hazardous area, consideration shall be given to possible variations in the spotting of tank cars and tank vehicles at the unloading points and the effect these variations of actual spotting point may have on the point of connection.

[4]Ventilation, either natural or mechanical, is considered adequate when the concentration of the gas in a gas-air mixture does not exceed twenty-five percent of the lower flammable limit under normal operating conditions.

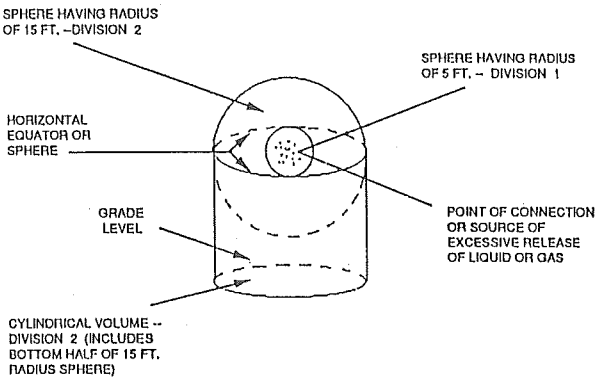


Figure H-1

Note: It is impossible to set out in a table the length of a fixed dip tube for various capacity tanks because of the varying tank diameters and lengths and because the tank may be installed either in a vertical or horizontal position. Knowing the maximum permitted filling volume in gallons, however, the length of the fixed tube can be determined by the use of a strapping table obtained from the container manufacturer. The length of the fixed tube should be such that when its lower end touches the surface of the liquid in the container, the contents of the container will be the maximum permitted volume as determined by the following formula:

$$\frac{\text{Water capacity (gals.) of container* x filling density**}}{\text{Specific gravity of LP-gas* x volume correction factor*** x 100}} = \text{Maximum volume of LP-gas}$$

* Measure at 60°F.

** From subsection (12)(a) of this section "filling densities."

*** For aboveground containers the liquid temperature is assumed to be 40°F and for underground containers the liquid temperature is assumed to be 50°F. To correct the liquid volumes at these temperatures to 60°F the following factors shall be used.

(i) Formula for determining maximum volume of liquefied petroleum gas for which a fixed length of dip tube shall be set:

TABLE H-29
VOLUME CORRECTION FACTORS

Specific gravity	Aboveground	Underground
0.500	1.033	1.017
.510	1.031	1.016
.520	1.029	1.015
.530	1.028	1.014
.540	1.026	1.013
.550	1.025	1.013
.560	1.024	1.012
.570	1.023	1.011
.580	1.021	1.011
.590	1.020	1.010

(ii) The maximum volume of LP-gas which can be placed in a container when determining the length of the dip tube expressed as a percentage of total water content of the container is calculated by the following formula.

(iii) The maximum weight of LP-gas which may be placed in a container for determining the length of a fixed dip tube is determined by multiplying the maximum volume of liquefied petroleum gas obtained by the formula in (e)(i) of this subsection by the pounds of liquefied petroleum gas in a gallon at 40°F for aboveground and at 50°F for underground containers. For example, typical pounds per gallon are specified below:

Example: Assume a one hundred-gallon total water capacity tank for aboveground storage of propane having a specific gravity of 0.510 of 60°F.

$$\frac{\text{100 (gals.) x 42 (filling density from (12)(a) of this subsection)}}{\text{0.510 x 1.031 (correction factor from Table H-29) x 100}} = \frac{4200}{52.6}$$

$$\frac{4200}{52.6} = \text{79.8 gallons propane, the maximum amount permitted to be placed in a 100-gallon total water capacity aboveground container equipped with a fixed dip tube.}$$

$$\frac{\text{Maximum volume of LP-gas (from formula in (e)(i) of this subsection) x 100}}{\text{Total water content of container in gallons.}} = \text{Maximum percent of LP-gas}$$

	Aboveground, pounds per gallon	Underground, pounds per gallon
Propane	4.37	4.31
N Butane	4.97	4.92

(f) Fixed liquid-level gages used on containers other than DOT containers shall be stamped on the exterior of the gage with the letters "DT" followed by the vertical distance (expressed in inches and carried out to one decimal place) from the top of container to the end of the dip tube or to the centerline of the gage when it is located at the maximum permitted filling level. For portable containers that may be filled in the horizontal and/or vertical position the letters "DT" shall be followed by "V" with the vertical distance from the top of the container to the end of the dip tube for vertical filling and with "H" followed by the proper distance for horizontal filling. For DOT containers the stamping shall be placed both on the exterior of the gage and on the container. On aboveground or cargo containers where the gages are positioned at specific levels, the marking may be specified in percent of total tank contents and the marking shall be stamped on the container.

(g) Gage glasses of the columnar type shall be restricted to charging plants where the fuel is withdrawn in the liquid phase only. They shall be equipped with valves having metallic handwheels, with excess flow valves, and with extra-heavy glass adequately protected with a metal housing applied by the gage manufacturer. They shall be shielded against the direct rays of the sun. Gage glasses of the columnar type are prohibited on tank trucks, and on motor fuel tanks, and on containers used in domestic, commercial, and industrial installations.

(h) Gaging devices of the float, or equivalent type which do not require flow for their operation and having connections extending to a point outside the container do not have to

be equipped with excess flow valves provided the piping and fittings are adequately designed to withstand the container pressure and are properly protected against physical damage and breakage.

(20) Requirements for appliances.

(a) Except as provided in (b) of this subsection, new commercial and industrial gas consuming appliances shall be approved.

(b) Any appliance that was originally manufactured for operation with a gaseous fuel other than LP-gas and is in good condition may be used with LP-gas only after it is properly converted, adapted, and tested for performance with LP-gas before the appliance is placed in use.

(c) Unattended heaters used inside buildings for the purpose of animal or poultry production or care shall be equipped with an approved automatic device designed to shut off the flow of gas to the main burners, and pilot if used, in the event of flame extinguishment.

(d) All commercial, industrial, and agricultural appliances or equipment shall be installed in accordance with the requirements of these standards and in accordance with the following:

(i) Domestic and commercial appliances—NFPA 54-1969, Standard for the Installation of Gas Appliances and Gas Piping.

(ii) Industrial appliances—NFPA 54A-1969, Standard for the Installation of Gas Piping and Gas Equipment on Industrial Premises and Certain Other Premises.

(iii) Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines—NFPA 37-1970.

(iv) Standard for the Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment, NFPA 96-1970.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-47505, filed 11/22/91, effective 12/24/91; 88-23-054 (Order 88-25), § 296-24-47505, filed 11/14/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 85-10-004 (Order 85-09), § 296-24-47505, filed 4/19/85; Order 76-6, § 296-24-47505, filed 3/1/76; Order 73-5, § 296-24-47505, filed 5/9/73 and Order 73-4, § 296-24-47505, filed 5/7/73.]

WAC 296-24-47507 Cylinder systems. (1) Application. This section applies specifically to systems utilizing containers constructed in accordance with DOT specifications. All requirements of WAC 296-24-47505 apply to this section unless otherwise noted in WAC 296-24-47505.

(2) Marking of containers.

(a) Containers shall be marked in accordance with DOT regulations. Additional markings not in conflict with DOT regulations may be used.

(b) Except as provided in (c) of this subsection each container shall be marked with its water capacity in pounds or other identified unit of weight.

(c) If a container is filled and maintained only by the owner or the owners representative and if the water capacity of each container is identified by a code, compliance with (b) of this subsection is not required.

(d) Each container shall be marked with its tare weight in pounds or other identified unit of weight including all permanently attached fittings but not the cap.

(3) Description of a system. A system shall include the container base or bracket, containers, container valves, connectors, manifold valve assembly, regulators, and relief valves.

(4) Containers and regulating equipment installed outside of buildings or structures.

(a) Containers shall not be buried below ground. However, this shall not prohibit the installation in a compartment or recess below grade level, such as a niche in a slope or terrace wall which is used for no other purpose, providing that the container and regulating equipment are not in contact with the ground and the compartment or recess is drained and ventilated horizontally to the outside air from its lowest level, with the outlet at least three feet away from any building opening which is below the level of such outlet.

Except as provided in WAC 296-24-47505 (10)(n), the discharge from safety relief devices shall be located not less than three feet horizontally away from any building opening which is below the level of such discharge and shall not terminate beneath any building unless such space is well ventilated to the outside and is not enclosed on more than two sides.

(b) Containers shall be set upon firm foundation or otherwise firmly secured; the possible effect on the outlet piping of settling shall be guarded against by a flexible connection or special fitting.

(5) Containers and equipment used inside of buildings or structures.

(a) When operational requirements make portable use of containers necessary and their location outside of buildings or structures is impracticable, containers and equipment are permitted to be used inside of buildings or structures in accordance with (a)(i) through (xii) of this subsection, and, in addition, such other provisions of this section as are applicable to the particular use or occupancy.

(i) Containers in use shall mean connected for use.

(ii) Systems utilizing containers having a water capacity greater than two and one-half pounds (nominal one pound LP-gas capacity) shall be equipped with excess flow valves. Such excess flow valves shall be either integral with the container valves or in the connections to the container valve outlets. In either case, an excess flow valve shall be installed in such a manner that any undue strain beyond the excess flow valve will not cause breakage between the container and the excess flow valve. The installation of excess flow valves shall take into account the type of valve protection provided.

(iii) Regulators, if used, shall be either directly connected to the container valves or to manifolds connected to the container valves. The regulator shall be suitable for use with LP-gas. Manifolds and fittings connecting containers to pressure regulator inlets shall be designed for at least 250 p.s.i.g. service pressure.

(iv) Valves on containers having a water capacity greater than fifty pounds (nominal twenty pounds LP-gas capacity) shall be protected while in use.

(v) Containers shall be marked in accordance with WAC 296-24-47505 (5)(c) and subsection (2) of this section.

(vi) Pipe or tubing shall conform to WAC 296-24-47505(8) except that aluminum pipe or tubing shall not be used.

(vii) Hose shall be designed for a working pressure of at least 250 p.s.i.g. Hose and hose connections shall have their

correctness as to design, construction and performance determined by listing by a nationally recognized testing laboratory.

(A) The hose length may exceed the length specified in WAC 296-24-47505 (9)(g)(ii), but shall be as short as practicable. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(B) Hose shall be long enough to permit compliance with spacing provisions of this section without kinking or straining or causing hose to be so close to a burner as to be damaged by heat.

(viii) Portable heaters, including salamanders, shall be equipped with an approved automatic device to shut off the flow of gas to the main burner, and pilot if used, in the event of flame extinguishment. Such heaters having inputs above 50,000 B.t.u. manufactured on or after May 17, 1967, and such heaters having inputs above 100,000 B.t.u. manufactured before May 17, 1967, shall be equipped with either:

(A) A pilot which must be lighted and proved before the main burner can be turned on; or

(B) An electric ignition system. The provisions of (a)(viii) of this subsection do not apply to tar kettle burners, torches, melting pots, nor do they apply to portable heaters under 7,500 B.t.u.h. input when used with containers having a maximum water capacity of two and one-half pounds. Container valves, connectors, regulators, manifolds, piping, and tubing shall not be used as structural supports for heaters.

(ix) Containers, regulating equipment, manifolds, pipe, tubing, and hose shall be located so as to minimize exposure to abnormally high temperatures (such as may result from exposure to convection or radiation from heating equipment or installation in confined spaces), physical damage, or tampering by unauthorized persons.

(x) Heat producing equipment shall be located and used so as to minimize the possibility of ignition of combustibles.

(xi) Containers having water capacity greater than two and one-half pounds (nominal one pound LP-gas capacity) connected for use, shall stand on a firm and substantially level surface and, when necessary, shall be secured in an upright position.

(xii) Containers, including the valve protective devices, shall be installed so as to minimize the probability of impingement of discharge of safety relief devices upon containers.

(b) Containers having a maximum water capacity of two and one-half pounds (nominal one pound LP-gas capacity) are permitted to be used inside of buildings as part of approved self-contained hand torch assemblies or similar appliances.

(c) Containers having a maximum water capacity of twelve pounds (nominal five pounds LP-gas capacity) are permitted to be used temporarily inside of buildings for public exhibition or demonstration purposes, including use for classroom demonstrations.

(d) When buildings frequented by the public are open to the public, containers are permitted to be used for repair or minor renovation as follows:

(i) The maximum water capacity of individual containers shall be fifty pounds (nominal twenty pounds LP-gas capacity).

(ii) The number of LP-gas containers shall not exceed the number of workers assigned to using the LP-gas.

(iii) Containers having a water capacity of greater than two and one-half pounds (nominal one pound LP-gas capacity[]) shall not be left unattended in such buildings.

(e) When buildings frequented by the public are not open to the public, containers are permitted to be used for repair or minor renovations, as follows:

The provisions of (f) of this subsection shall apply except that containers having a water capacity greater than two and one-half pounds (nominal one pound LP-gas capacity) shall not be left unattended in such buildings.

(f) Containers are permitted to be used in buildings or structures under construction or undergoing major renovation when such buildings or structures are not occupied by the public, as follows:

(i) The maximum water capacity of individual containers shall be two hundred forty-five pounds (nominal one hundred pounds LP-gas capacity).

(ii) For temporary heating such as curing concrete, drying plaster and similar applications, heaters (other than integral heater-container units) shall be located at least six feet from any LP-gas container. This shall not prohibit the use of heaters specifically designed for attachment to the container or to a supporting standard, provided they are designed and installed so as to prevent direct or radiant heat application from the heater onto the container. Blower and radiant type heater shall not be directed toward any LP-gas container within twenty feet.

(iii) If two or more heater-container units, of either the integral or nonintegral type, are located in an unpartitioned area on the same floor, the container or containers of each unit shall be separated from the container or containers of any other unit by at least twenty feet.

(iv) When heaters are connected to containers for use in an unpartitioned area on the same floor, the total water capacity of containers manifolded together for connection to a heater or heaters shall not be greater than seven hundred thirty-five pounds (nominal three hundred pounds LP-gas capacity). Such manifolds shall be separated by at least twenty feet.

(v) On floors on which heaters are not connected for use, containers are permitted to be manifolded together for connection to a heater or heaters on another floor, provided:

(A) The total water capacity of containers connected to any one manifold is not greater than two thousand four hundred fifty pounds (nominal one thousand pounds LP-gas capacity) and;

(B) Where more than one manifold having a total water capacity greater than seven hundred thirty-five pounds (nominal three hundred pounds LP-gas capacity) are located in the same unpartitioned area, they shall be separated by at least fifty feet.

(vi) Storage of containers awaiting use shall be in accordance with WAC 296-24-47513.

(g) Containers are permitted to be used in industrial occupancies for processing, research, or experimental purposes as follows:

(i) The maximum water capacity of individual containers shall be two hundred forty-five pounds (nominal one hundred pounds LP-gas capacity).

(ii) Containers connected to a manifold shall have a total water capacity not greater than seven hundred thirty-five pounds (nominal three hundred pounds LP-gas capacity) and not more than one such manifold may be located in the same room unless separated at least twenty feet from a similar unit.

(iii) The amount of LP-gas in containers for research and experimental use shall be limited to the smallest practical quantity.

(h) Containers are permitted to be used in industrial occupancies with essentially noncombustible contents where portable equipment for space heating is essential and where a permanent heating installation is not practical, as follows: Containers and heaters shall comply with and be used in accordance with (f) of this subsection.

(i) Containers are permitted to be used in buildings for temporary emergency heating purposes, if necessary to prevent damage to the buildings or contents, when the permanent heating system is temporarily out of service, as follows:

(i) Containers and heaters shall comply with and be used in accordance with (f) of this subsection.

(ii) The temporary heating equipment shall not be left unattended.

(j) Containers are permitted to be used temporarily in buildings for training purposes related in installation and use of LP-gas systems, as follows:

(i) The maximum water capacity of individual containers shall be two hundred forty-five pounds (nominal one hundred pounds LP-gas capacity), but the maximum quantity of LP-gas that may be placed in each container shall be twenty pounds.

(ii) If more than one such container is located in the same room, the containers shall be separated by at least twenty feet.

(iii) Containers shall be removed from the building when the training class has terminated.

(6) Container valves and accessories.

(a) Valves in the assembly of multiple container systems shall be arranged so that replacement of containers can be made without shutting off the flow of gas in the system.

Note: This provision is not to be construed as requiring an automatic changeover device.

(b) Regulators and low-pressure relief devices shall be rigidly attached to the cylinder valves, cylinders, supporting standards, the building walls or otherwise rigidly secured and shall be so installed or protected that the elements (sleet, snow, or ice) will not affect their operation.

(c) Valves and connections to the containers shall be protected while in transit, in storage, and while being moved into final utilization, as follows:

(i) By setting into the recess of the container to prevent the possibility of their being struck if the container is dropped upon a flat surface, or

(ii) By ventilated cap or collar, fastened to the container capable of withstanding a blow from any direction equivalent to that of a thirty-pound weight dropped four feet. Construction must be such that a blow will not be transmitted to the valve or other connection.

(d) When containers are not connected to the system, the outlet valves shall be kept tightly closed or plugged, even though containers are considered empty.

(e) Containers having a water capacity in excess of fifty pounds (approximately twenty-one pounds LP-gas capacity), recharged at the installation, shall be provided with excess flow or backflow check valves to prevent the discharge of container contents in case of failure of the filling or equalizing connection.

(7) Safety devices.

(a) Containers shall be provided with safety devices as required by DOT regulations.

(b) A final stage regulator of an LP-gas system (excluding any appliance regulator) shall be equipped on the low-pressure side with a relief valve which is set to start to discharge within the limits specified in Table H-30.

TABLE H-30

Regulatory delivery pressure	Relief valve start to discharge pressure setting (percent of regulator deliver pressure)	
	Minimum	Maximum
1 p.s.i.g. or less	200	300
Above 1 p.s.i.g. but not over 3 p.s.i.g.	140	200
Above 3 p.s.i.g.	125	200

(c) When a regulator or pressure relief valve is used inside a building for other than purposes specified in WAC 296-24-47505 (6)(a)(i) through (vi), the relief valve and the space above the regulator and relief valve diaphragms shall be vented to the outside air with the discharge outlet located not less than three feet horizontally away from any building opening which is below such discharge. These provisions do not apply to individual appliance regulators when protection is otherwise provided nor to subsection (5) of this section and WAC 296-24-47505 (10)(n). In buildings devoted exclusively to gas distribution purposes, the space above the diaphragm need not be vented to the outside.

(8) Reinstallation of containers. Containers shall not be reinstalled unless they are requalified in accordance with DOT regulations.

Permissible product. A product shall not be placed in a container marked with a service pressure less than four-fifths of the maximum vapor pressure of product at 130°F.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-47507, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-47507, filed 11/14/88; Order 73-5, § 296-24-47507, filed 5/9/73 and Order 73-4, § 296-24-47507, filed 5/7/73.]

WAC 296-24-47509 Systems utilizing containers other than DOT containers. (1) Application. This section applies specifically to systems utilizing storage containers other than those constructed in accordance with DOT specifications. WAC 296-24-47505 of this section applies to this section unless otherwise noted in WAC 296-24-47505.

(2) Design pressure and classification of storage containers. Storage containers shall be designed and classified in accordance with Table H-31.

(3) Container valves and accessories, filler pipes, and discharge pipes.

(a) The filling pipe inlet terminal shall not be located inside a building. For containers with a water capacity of 125 gallons or more, such terminals shall be located not less than 10 feet from any building (see WAC 296-24-47505 (6)(b)), and preferably not less than 5 feet from any driveway, and shall be located in a protective housing built for the purpose.

TABLE H-31

Container type	For gases with vapor press. Not to exceed lb. per sq. in. gage at 100°F (37.8°C.)	Minimum design pressures of container lb. per sq. in. gage	
		1949 and earlier editions of ASME Code (Par. U-68 U-69)	1949 edition of Code (Par. U-200, U-201); 1950, 1952, 1956, 1959, 1962, 1965, and 1968 (Division I) editions of ASME Code; All editions of API-ASME Code[3]
80[1]	80[1]	80[1]	100[1]
100	100	100	125
125	125	125	156
150	150	150	187
175	175	175	219
200[2]	215	200	250

[1]New storage containers of the 80 type have not been authorized since Dec. 31, 1947.

[2]Container type may be increased by increments of 25. The minimum design pressure of containers shall be 100% of the container type designations when constructed under 1949 or earlier editions of the ASME Code (Par. U-68 and U-69). The minimum design pressure of containers shall be 125% of the container type designation when constructed under: (1) The 1949 ASME Code (Par. U-200 and U-201), (2) 1950, 1952, 1956, 1959, 1962, 1965, and 1968 (Division I) editions of the ASME Code, and (3) all editions of the API-ASME Code.

[3]Construction of containers under the API-ASME Code is not authorized after July 1, 1961.

(b) The filling connection shall be fitted with one of the following:

(i) Combination back-pressure check valve and excess flow valve.

(ii) One double or two single back-pressure check valves.

(iii) A positive shut-off valve in conjunction with either:

(A) An internal back pressure valve, or

(B) An internal excess flow valve.

(c) All openings in a container shall be equipped with approved automatic excess flow valves except in the following: Filling connections as provided in (3)(b) of this section; safety relief connections, liquid-level gaging devices as provided in WAC 296-24-47505 (7)(d), (19)(c) and (19)(h); pressure gage connections as provided in WAC 296-24-47505 (7)(e), as provided in (3)(d), (f) and (g) of this section.

(d) An excess flow valve is not required in the withdrawal service line providing the following are complied with:

(i) Such systems' total water capacity does not exceed 2,000 U.S. gallons.

(ii) The discharge from the service outlet is controlled by a suitable manually operated shut-off valve which is:

(A) Threaded directly into the service outlet of the container; or

(B) Is an integral part of a substantial fitting threaded into or on the service outlet of the container; or

(C) Threaded directly into a substantial fitting threaded into or on the service outlet of the container.

(iii) The shut-off valve is equipped with an attached handwheel or the equivalent.

(iv) The controlling orifice between the contents of the container and the outlet of the shut-off valve does not exceed five-sixteenths inch in diameter for vapor withdrawal systems and one-eighth inch in diameter for liquid withdrawal systems.

(v) An approved pressure-reducing regulator is directly attached to the outlet of the shut-off valve and is rigidly supported, or that an approved pressure-reducing regulator is attached to the outlet of the shut-off valve by means of a suitable flexible connection, provided the regulator is adequately supported and properly protected on or at the tank.

(e) All inlet and outlet connections except safety relief valves, liquid level gaging devices and pressure gages on containers of 2,000 gallons water capacity, or more, and on any container used to supply fuel directly to an internal combustion engine, shall be labeled to designate whether they communicate with vapor or liquid space. Labels may be on valves.

(f) In lieu of an excess flow valve openings may be fitted with a quick-closing internal valve which, except during operating periods shall remain closed. The internal mechanism for such valves may be provided with a secondary control which shall be equipped with a fusible plug (not over 220°F melting point) which will cause the internal valve to close automatically in case of fire.

(g) Not more than two plugged openings shall be permitted on a container of 2,000 gallons or less water capacity.

(h) Containers of 125 gallons water capacity or more manufactured after July 1, 1961, shall be provided with an approved device for liquid evacuation, the size of which shall be three-fourths inch national pipe thread minimum. A plugged opening will not satisfy this requirements.

(4) Safety devices.

(a) All safety devices shall comply with the following:

(i) All container safety relief devices shall be located on the containers and shall have direct communication with the vapor space of the container.

(ii) In industrial and gas manufacturing plants, discharge pipe from safety relief valves on pipe lines within a building shall discharge vertically upward and shall be piped to a point outside a building.

(iii) Safety relief device discharge terminals shall be so located as to provide protection against physical damage and such discharge pipes shall be fitted with loose raincaps. Return bends and restrictive pipefittings shall not be permitted.

(iv) If desired, discharge lines from two or more safety relief devices located on the same unit, or similar lines from two or more different units, may be run into a common discharge header, provided that the cross-sectional area of such header be at least equal to the sum of the cross-sectional area

of the individual discharge lines, and that the setting of safety relief valves are the same.

(v) Each storage container of over 2,000 gallons water capacity shall be provided with a suitable pressure gage.

(vi) A final stage regulator of an LP-gas system (excluding any appliance regulator) shall be equipped on the low-pressure side with a relief valve which is set to start to discharge within the limits specified in Table H-30.

(vii) When a regulator or pressure relief valve is installed inside a building, the relief valve and the space above the regulator and relief valve diaphragms shall be vented to the outside air with the discharge outlet located not less than 3 feet horizontally away from any opening into the building which is below such discharge. (These provisions do not apply to individual appliance regulators when protection is otherwise provided. In buildings devoted exclusively to gas distribution purposes, the space above the diaphragm need not be vented to the outside.)

(b) Safety devices for aboveground containers shall be provided as follows:

(i) Containers of 1,200 gallons water capacity or less which may contain liquid fuel when installed above ground shall have the rate of discharge required by WAC 296-24-47505 (10)(b) provided by a spring-loaded relief valve or valves. In addition to the required spring-loaded relief valve(s) suitable fuse plug(s) may be used provided the total discharge area of the fuse plug(s) for each container does not exceed 0.25 square inch.

(ii) The fusible metal of the fuse plugs shall have a yield temperature of 208°F minimum and 220°F maximum. Relief valves and fuse plugs shall have direct communication with the vapor space of the container.

(iii) On a container having a water capacity greater than 125 gallons, but not over 2,000 gallons, the discharge from the safety relief valves shall be vented away from the container vertically upwards and unobstructed to the open air in such a manner as to prevent any impingement of escaping gas upon the container; loose-fitting rain caps shall be used. Suitable provision shall be made for draining condensate which may accumulate in the relief valve or its discharge pipe.

(iv) On containers of 125 gallons water capacity or less, the discharge from safety relief devices shall be located not less than 5 feet horizontally away from any opening into the building below the level of such discharge.

(v) On a container having a water capacity greater than 2,000 gallons, the discharge from the safety relief valves shall be vented away from the container vertically upwards to a point at least 7 feet above the container, and unobstructed to the open air in such a manner as to prevent any impingement of escaping gas upon the container; loose-fitting rain caps shall be used. Suitable provision shall be made so that any liquid or condensate that may accumulate inside of the safety relief valve or its discharge pipe will not render the valve inoperative. If a drain is used, a means shall be provided to protect the container, adjacent containers, piping, or equipment against impingement of flame resulting from ignition of product escaping from the drain.

(c) On all containers which are installed underground and which contain no liquid fuel until buried and covered, the rate of discharge of the spring-loaded relief valve installed thereon may be reduced to a minimum of 30 percent of the rate of discharge specified in WAC 296-24-47505 (10)(b). Containers so protected shall not be uncovered after installation until the liquid fuel has been removed therefrom. Containers which may contain liquid fuel before being installed under ground and before being completely covered with earth are to be considered aboveground containers when determining the rate of discharge requirement of the relief valves.

(d) On underground containers of more than 2,000 gallons water capacity, the discharge from safety relief devices shall be piped vertically and directly upward to a point at least 7 feet above the ground.

Where there is a probability of the manhole or housing becoming flooded, the discharge from regulator vent lines shall be above the highest probable water level. All manholes or housings shall be provided with ventilated louvers or their equivalent, the area of such openings equaling or exceeding the combined discharge areas of the safety relief valves and other vent lines which discharge their content into the manhole housing.

(e) Safety devices for vaporizers shall be provided as follows:

(i) Vaporizers of less than 1 quart total capacity, heated by the ground or the surrounding air, need not be equipped with safety relief valves provided that adequate tests certified by any of the authorities referred to in WAC 296-24-47505(2), demonstrate that the assembly is safe without safety relief valves.

(ii) No vaporizer shall be equipped with fusible plugs.

(iii) In industrial and gas manufacturing plants, safety relief valves on vaporizers within a building shall be piped to a point outside the building and be discharged upward.

(5) Reinstallation of containers. Containers may be reinstalled if they do not show any evidence of harmful external corrosion or other damage. Where containers are reinstalled underground, the corrosion resistant coating shall be put in good condition (see (7)(f) of this section). Where containers are reinstalled above ground, the safety devices and gaging devices shall comply with (4) of this section and WAC 296-24-47505(19) respectively for aboveground containers.

(6) Capacity of containers. A storage container shall not exceed 90,000 gallons water capacity.

(7) Installation of storage containers.

(a) Containers installed above ground, except as provided in (7)(g) of this section, shall be provided with substantial masonry or noncombustible structural supports on firm masonry foundation.

(b) Aboveground containers shall be supported as follows:

(i) Horizontal containers shall be mounted on saddles in such a manner as to permit expansion and contraction. Structural metal supports may be employed when they are protected against fire in an approved manner. Suitable means of preventing corrosion shall be provided on that portion of the container in contact with the foundations or saddles.

(ii) Containers of 2,000 gallons water capacity or less may be installed with nonfireproofed ferrous metal supports if mounted on concrete pads or footings, and if the distance from the outside bottom of the container shell to the concrete pad, footing, or the ground does not exceed 24 inches.

(c) Any container may be installed with nonfireproofed ferrous metal supports if mounted on concrete pads or footings, and if the distance from the outside bottom of the container to the ground does not exceed 5 feet, provided the container is in an isolated location.

(d) Containers may be partially buried providing the following requirements are met:

(i) The portion of the container below the surface and for a vertical distance not less than 3 inches above the surface of the ground is protected to resist corrosion, and the container is protected against settling and corrosion as required for fully buried containers.

(ii) Spacing requirements shall be as specified for underground tanks in WAC 296-24-47505 (6)(b).

(iii) Relief valve capacity shall be as required for aboveground containers.

(iv) Container is located so as not to be subject to vehicular damage, or is adequately protected against such damage.

(v) Filling densities shall be as required for aboveground containers as specified in Table H-27. See WAC 296-24-47505.

(e) Containers buried underground shall be placed so that the top of the container is not less than 6 inches below grade. Where an underground container might be subject to abrasive action or physical damage due to vehicular traffic or other causes, then it shall be:

(i) Placed not less than 2 feet below grade, or

(ii) Otherwise protected against such physical damage.

It will not be necessary to cover the portion of the container to which manhole and other connections are affixed; however, where necessary, protection shall be provided against vehicular damage. When necessary to prevent floating, containers shall be securely anchored or weighted.

(f) Containers shall be given a protective coating before being placed underground. This coating shall be equivalent to hot-dip galvanizing or to two coatings of red lead followed by a heavy coating of coal tar or asphalt. In lowering the container into place, care shall be exercised to prevent damage to the coating. Any damage to the coating shall be repaired before backfilling.

(i) Containers shall be set on a firm foundation (firm earth may be used) and surrounded with earth or sand firmly tamped in place. Backfill should be free of rocks or other abrasive materials.

(g) Containers with foundations attached (portable or semiportable containers with suitable steel "runners" or "skids" and popularly known in the industry as "skid tanks") shall be designed, installed, and used in accordance with these rules subject to the following provisions:

(i) If they are to be used at a given general location for a temporary period not to exceed 6 months they need not have fire-resisting foundations or saddles but shall have adequate ferrous metal supports.

(ii) They shall not be located with the outside bottom of the container shell more than 5 feet above the surface of the ground unless fire-resisting supports are provided.

(iii) The bottom of the skids shall not be less than 2 inches or more than 12 inches below the outside bottom of the container shell.

(iv) Flanges, nozzles, valves, fittings, and the like, having communication with the interior of the container, shall be protected against physical damage.

(v) When not permanently located on fire-resisting foundations, piping connections shall be sufficiently flexible to minimize the possibility of breakage or leakage of connections if the container settles, moves, or is otherwise displaced.

(vi) Skids, or lugs for attachment of skids, shall be secured to the container in accordance with the code or rules under which the container is designed and built (with a minimum factor of safety of four) to withstand loading in any direction equal to four times the weight of the container and attachments when filled to the maximum permissible loaded weight.

(h) Field welding where necessary shall be made only on saddle plates or brackets which were applied by the manufacturer of the tank.

(i) For aboveground containers, secure anchorage or adequate pier height shall be provided against possible container flotation wherever sufficiently high floodwater might occur.

(j) When permanently installed containers are interconnected, provision shall be made to compensate for expansion, contraction, vibration, and settling of containers, and interconnecting piping. Where flexible connections are used, they shall be of an approved type and shall be designed for a bursting pressure of not less than five times the vapor pressure of the product at 100°F. The use of nonmetallic hose is prohibited for permanently interconnecting such containers.

(k) Container assemblies listed for interchangeable installation above ground or under ground shall conform to the requirements for aboveground installations with respect to safety relief capacity and filling density. For installation above ground all other requirements for aboveground installations shall apply. For installation under ground all other requirements for underground installations shall apply.

(8) Protection of container accessories.

(a) Valves, regulating, gaging, and other container accessory equipment shall be protected against tampering and physical damage. Such accessories shall also be so protected during the transit of containers intended for installation underground.

(b) On underground or combination aboveground-underground containers, the service valve handwheel, the terminal for connecting the hose, and the opening through which there can be a flow from safety relief valves shall be at least 4 inches above the container and this opening shall be located in the dome or housing. Underground systems shall be so installed that all the above openings, including the regulator vent, are located above the normal maximum water table.

(c) All connections to the underground containers shall be located within a substantial dome, housing, or manhole and with access thereto protected by a substantial cover.

(9) Drips for condensed gas. Where vaporized gas on the low-pressure side of the system may condense to a liquid at normal operating temperatures and pressures, suitable means shall be provided for revaporization of the condensate.

(10) Damage from vehicles. When damage to LP-gas systems from vehicular traffic is a possibility, precautions against such damage shall be taken.

(11) Pits and drains. Every effort should be made to avoid the use of pits, except pits fitted with automatic flammable vapor detecting devices. No drains or blowoff lines shall be directed into or in proximity to sewer systems used for other purposes.

(12) General provisions applicable to systems in industrial plants (of 2,000 gallons water capacity and more) and to bulk filling plants.

(a) When standard watch service is provided, it shall be extended to the LP-gas installation and personnel properly trained.

(b) If loading and unloading are normally done during other than daylight hours, adequate lights shall be provided to illuminate storage containers, control valves, and other equipment.

(c) Suitable roadways or means of access for extinguishing equipment such as wheeled extinguishers or fire department apparatus shall be provided.

(d) To minimize trespassing or tampering, the area which includes container appurtenances, pumping equipment, loading and unloading facilities, and cylinder-filling facilities shall be enclosed with at least a 6-foot-high industrial type fence unless otherwise adequately protected. There shall be at least two means of emergency access.

(13) Container-charging plants.

(a) The container-charging room shall be located not less than:

(i) Ten feet from bulk storage containers.

(ii) Twenty-five feet from line of adjoining property which may be built upon.

(b) Tank truck filling station outlets shall be located not less than:

(i) Twenty-five feet from line of adjoining property which may be built upon.

(ii) Ten feet from pumps and compressors if housed in one or more separate buildings.

(c) The pumps or compressors may be located in the container-charging room or building, in a separate building, or outside of buildings. When housed in separate building, such building (a small noncombustible weather cover is not to be construed as a building) shall be located not less than:

(i) Ten feet from bulk storage tanks.

(ii) Twenty-five feet from line of adjoining property which may be built upon.

(iii) Twenty-five feet from sources of ignition.

(d) When a part of the container-charging building is to be used for a boiler room or where open flames or similar sources of ignition exist or are employed, the space to be so occupied shall be separated from container charging room by a partition wall or walls of fire-resistant construction continuous from floor to roof or ceiling. Such separation walls shall be without openings and shall be joined to the floor, other walls, and ceiling or roof in a manner to effect a permanent gas-tight joint.

(e) Electrical equipment and installations shall conform with WAC 296-24-47505 (17) and (18).

(14) Fire protection.

(a) Each bulk plant shall be provided with at least one approved portable fire extinguisher having a minimum rating of 12-B, C.

(b) In industrial installations involving containers of 150,000 gallons aggregate water capacity or more, provision shall be made for an adequate supply of water at the container site for fire protection in the container area, unless other adequate means for fire control are provided. Water hydrants shall be readily accessible and so spaced as to provide water protection for all containers. Sufficient lengths of firehose shall be provided at each hydrant location on a hose cart, or other means provided to facilitate easy movement of the hose in the container area. It is desirable to equip the outlet of each hose line with a combination fog nozzle. A shelter shall be provided to protect the hose and its conveyor from the weather.

(15) Painting. Aboveground containers shall be kept properly painted.

(16) Lighting. Electrical equipment and installations shall conform to WAC 296-24-47505 (17) and (18).

(17) Vaporizers for internal combustion engines. The provisions of WAC 296-24-47511(8) shall apply.

(18) Gas regulating and mixing equipment for internal combustion engines. The provisions of WAC 296-24-47511(9) shall apply.

[Order 73-5, § 296-24-47509, filed 5/9/73 and Order 73-4, § 296-24-47509, filed 5/7/73.]

WAC 296-24-47511 Liquefied petroleum gas as a motor fuel. (1) Application.

(a) This section applies to internal combustion engines, fuel containers, and pertinent equipment for the use of liquefied petroleum gases as a motor fuel on easily movable, readily portable units including self-propelled vehicles.

(b) Fuel containers and pertinent equipment for internal combustion engines using liquefied petroleum gas where installation is of the stationary type are covered by WAC 296-24-47509. This section does not apply to containers for transportation of liquefied petroleum gases nor to marine fuel use. All requirements of WAC 296-24-47505 apply to this section, unless otherwise noted in WAC 296-24-47505.

(2) General.

(a) Fuel may be used from the cargo tank of a truck while in transit, but not from cargo tanks on trailers or semitrailers. The use of fuel from the cargo tanks to operate stationary engines is permitted providing wheels are securely blocked.

(b) Passenger-carrying vehicles shall not be fueled while passengers are on board.

(c) Industrial trucks (including lift trucks) equipped with permanently mounted fuel containers shall be charged outdoors. Charging equipment shall comply with the provisions of WAC 296-24-47517.

(d) LP-gas fueled industrial trucks shall comply with the Standard for Type Designations, Areas of Use, Maintenance and Operation of Powered Industrial Trucks, NFPA 505-1969.

(e) Engines on vehicles shall be shut down while fueling if the fueling operation involves venting to the atmosphere.

(3) Design pressure and classification of fuel containers.

(a) Except as covered in (3)(b) and (c) of this section, containers shall be in accordance with Table H-32.

(b) Fuel containers for use in industrial trucks (including lift trucks) shall be either DOT containers authorized for LP-

gas service having a minimum service pressure of 240 p.s.i.g or minimum Container Type 250. Under 1950 and later ASME Codes, this means a 312.5-p.s.i.g design pressure container.

TABLE H-32

Container type	For gases with vapor press. Not to exceed lb. per sq. in. gage at 100°F. (37.8°C.)	Minimum design pressure of container lb. per sq. in. gage	
		1949 and earlier editions of ASME Code (Par. U-68, U-69)	1949 edition of ASME Code (Par. U-200, 1U-201); 1950, 1952, 1956, 1959, 1962, 1965, and 1968 (Division I) editions of ASME Code; All editions of API-ASME Code[2]
200[1]	215	200	250

[1] Container type may be increased by increments of 25. The minimum design pressure of containers shall be 100% of the container type designation when constructed under 1949 or earlier editions of the ASME Code (Par. U-68 and U-69). The minimum design pressure of containers shall be 125% of the container type designation when constructed under: (1) The 1949 ASME Code (Par. U-200 and U-201), (2) 1950, 1952, 1956, 1959, 1962, 1965, and 1968 (Division I) editions of the ASME Code, and (3) all editions of the API-ASME Code.

[2] Construction of containers under the API-ASME Code is not authorized after July 1, 1961.

(c) Containers manufactured and maintained under DOT specifications and regulations may be used as fuel containers. When so used they shall conform to all requirements of this section.

(d) All container inlets and outlets except safety relief valves and gaging devices shall be labeled to designate whether they communicate with vapor or liquid space. (Labels may be on valves.)

(4) Installation of fuel containers.

(a) Containers shall be located in a place and in a manner to minimize the possibility of damage to the container. Containers located in the rear of trucks and buses, when protected by substantial bumpers, will be considered in conformance with this requirement. Fuel containers on passenger-carrying vehicles shall be installed as far from the engine as is practicable, and the passenger space and any space containing radio equipment shall be sealed from the container space to prevent direct seepage of gas to these spaces. The container compartment shall be vented to the outside. In case the fuel container is mounted near the engine or the exhaust system, the container shall be shielded against direct heat radiation.

(b) Containers shall be installed with as much clearance as practicable but never less than the minimum road clearance of the vehicle under maximum spring deflection. This minimum clearance shall be to the bottom of the container or to the lowest fitting on the container or housing, whichever is lower.

(c) Permanent and removable fuel containers shall be securely mounted to prevent jarring loose, slipping, or rotating, and the fastenings shall be designed and constructed to withstand static loading in any direction equal to twice the weight of the tank and attachments when filled with fuel using a safety factor of not less than four based on the ultimate strength of the material to be used. Field welding, when necessary, shall be made only on saddle plates, lugs or brackets, originally attached to the container by the tank manufacturer.

(d) Fuel containers on buses shall be permanently installed.

(e) Containers from which vapor only is to be withdrawn shall be installed and equipped with suitable connections to minimize the accidental withdrawal of liquid.

(5) Valves and accessories.

(a) Container valves and accessories shall have a rated working pressure of at least 250 p.s.i.g., and shall be of a type suitable for liquefied petroleum gas service.

(b) The filling connection shall be fitted with an approved double back-pressure check valve, or a positive shutoff in conjunction with an internal back-pressure check valve. On a removable container the filler valve may be a hand operated shutoff valve with an internal excess flow valve. Main shutoff valves on the container on liquid and vapor must be readily accessible.

(c) With the exceptions of (5)(d)(iii) of this section, filling connections equipped with approved automatic back-pressure check valves, and safety relief valves, all connections to the containers having openings for the flow of gas in excess of a No. 54 drill size shall be equipped with approved automatic excess flow valves to prevent discharge of content in case connections are broken.

(d) Liquid-level gaging devices:

(i) Variable liquid-level gages which require the venting of fuel to the atmosphere shall not be used on fuel containers of industrial trucks (including lift trucks).

(ii) On portable containers that may be filled in the vertical and/or horizontal position, the fixed liquid-level gage shall indicate maximum permitted filling level for both vertical and horizontal filling with the container oriented to place the safety relief valve in communication with the vapor space.

(iii) In the case of containers used solely in farm tractor service and charged at a point at least 50 feet from any important building, the fixed liquid-level gaging device may be so constructed that the outward flow of container content exceeds that passed by a No. 54 drill size opening, but in no case shall the flow exceed that passed by a No. 31 drill-size opening. An excess flow valve is not required. Fittings equipped with such restricted drill size opening and container on which they are used shall be marked to indicate the size of the opening.

(iv) All valves and connections on containers shall be adequately protected to prevent damage due to accidental contact with stationary objects or from loose objects thrown up from the road, and all valves shall be safeguarded against damage due to collision, overturning or other accident. For farm tractors where parts of the vehicle provide such protection to valves and fittings, the foregoing requirements shall be considered fulfilled. However, on removable type containers the protection for the fittings shall be permanently attached to the container.

(v) (Exchange of removable fuel containers preferably should be done outdoors but may be done indoors.) When removable fuel containers are used, means shall be provided in the fuel system to minimize the escape of fuel when the

containers are exchanged. This shall be accomplished by one of the following methods:

(A) Using an approved automatic quick-closing coupling (a type closing in both directions when uncoupled) in the fuel line, or

(B) Closing the valve at the fuel container and allowing the engine to run until the fuel in the line is consumed.

(6) Piping—Including pipe, tubing, and fittings.

(a) Pipe from fuel container to first-stage regulator shall be not less than schedule 80 wrought iron or steel (black or galvanized), brass or copper; or seamless copper, brass, or steel tubing. Steel tubing shall have a minimum wall thickness of 0.049 inch. Steel pipe or tubing shall be adequately protected against exterior corrosion. Copper tubing shall be types K or L or equivalent having a minimum wall thickness of 0.032 inch. Approved flexible connections may be used between container and regulator or between regulator and gas-air mixer within the limits of approval. The use of aluminum pipe or tubing is prohibited. In the case of removable containers an approved flexible connection shall be used between the container and the fuel line.

(b) All piping shall be installed, braced, and supported so as to reduce to a minimum the possibility of vibration strains or wear.

(7) Safety devices.

(a) Spring-loaded internal type safety relief valves shall be used on all motor fuel containers.

(b) The discharge outlet from safety relief valves shall be located on the outside of enclosed spaces and as far as practicable from possible sources of ignition, and vented upward within 45 degrees of the vertical in such a manner as to prevent impingement of escaping gas upon containers, or parts of vehicles, or on vehicles in adjacent lines of traffic. A rain cap or other protector shall be used to keep water and dirt from collecting in the valve.

(c) When a discharge line from the container safety relief valve is used, the line shall be metallic, other than aluminum, and shall be sized, located, and maintained so as not to restrict the required flow of gas from the safety relief valve. Such discharge line shall be able to withstand the pressure resulting from the discharge of vapor when the safety relief valve is in the full open position. When flexibility is necessary, flexible metal hose or tubing shall be used.

(d) Portable containers equipped for volumetric filling may be filled in either the vertical or horizontal position only when oriented to place the safety relief valve in communication with the vapor space.

(e) WAC 296-24-47505 (10)(1) for hydrostatic relief valves shall apply.

(8) Vaporizers.

(a) Vaporizers and any part thereof and other devices that may be subjected to container pressure shall have a design pressure of at least 250 p.s.i.g.

(b) Each vaporizer shall have a valve or suitable plug which will permit substantially complete draining of the vaporizer. It shall be located at or near the lowest portion of the section occupied by the water or other heating medium.

(c) Vaporizers shall be securely fastened so as to minimize the possibility of becoming loosened.

(d) Each vaporizer shall be permanently marked at a visible point as follows:

(i) With the design pressure of the fuel-containing portion in p.s.i.g.

(ii) With the water capacity of the fuel-containing portion of the vaporizer in pounds.

(e) Devices to supply heat directly to a fuel container shall be equipped with an automatic device to cut off the supply of heat before the pressure inside the fuel container reaches 80 percent of the start to discharge pressure setting of the safety relief device on the fuel container.

(f) Engine exhaust gases may be used as a direct source of heat supply for the vaporization of fuel if the materials of construction of those parts of the vaporizer in contact with exhaust gases are resistant to the corrosive action of exhaust gases and the vaporizer system is designed to prevent excessive pressures.

(g) Vaporizers shall not be equipped with fusible plugs.

(9) Gas regulating and mixing equipment.

(a) Approved automatic pressure reducing equipment shall be installed in a secure manner between the fuel supply container and gas-air mixer for the purpose of reducing the pressure of the fuel delivered to the gas-air mixer.

(b) An approved automatic shutoff valve shall be provided in the fuel system at some point ahead of the inlet of the gas-air mixer, designed to prevent flow of fuel to the mixer when the ignition is off and the engine is not running. In the case of industrial trucks and engines operating in buildings other than those used exclusively to house engines, the automatic shutoff valve shall be designed to operate if the engine should stop. Atmospheric type regulators (zero governors) shall be considered adequate as an automatic shutoff valve only in cases of outdoor operation such as farm tractors, construction equipment, irrigation pump engines, and other outdoor stationary engine installations.

(c) The source of the air for combustion shall be completely isolated from the passenger compartment, ventilating system, or air-conditioning system.

(10) Capacity of containers. No single fuel container used on passenger carrying vehicles shall exceed 200 gallons water capacity. No single fuel container on other vehicles normally operating on the highway shall exceed 300 gallons water capacity except as provided in (2)(a) of this section.

(11) Stationary engines in buildings. Stationary engines and gas turbines installed in buildings, including portable engines used instead of or to supplement stationary engines, shall comply with the Standard for the Institution and Use of Stationary Combustion Engines and Gas Turbines, NFPA 37-1970, and the appropriate provisions of WAC 296-24-47505 through 296-24-47509.

(12) Portable engines in buildings.

(a) Portable engines may be used in buildings only for emergency use, except as provided by (11) of this section.

(b) Exhaust gases shall be discharged to outside the building or to an area where they will not constitute a hazard.

(c) Provision shall be made to supply sufficient air for combustion and cooling.

(d) An approved automatic shutoff valve shall be provided in the fuel system ahead of the engine, designed to pre-

vent flow of fuel to the engine when the ignition is off or if the engine should stop.

(e) The capacity of LP-gas containers used with such engines shall comply with the applicable occupancy provision of WAC 296-24-47507(5).

(13) Industrial trucks inside buildings.

(a) LP-gas-fueled industrial trucks are permitted to be used in buildings and structures.

(b) No more than two LP-gas containers shall be used on an industrial truck for motor fuel purposes.

(c) LP-gas-fueled industrial trucks are permitted to be used in buildings frequented by the public, when occupied by the public. The total water capacity of containers on each industrial truck shall not exceed 105 pounds (nominal 45 pounds LP-gas).

(d) Trucks shall not be left unattended in areas occupied by the public.

(e) Industrial trucks shall not be parked and left unattended in areas of possible excessive heat or sources of ignition.

(14) Garaging LP-gas-fueled vehicles.

(a) LP-gas-fueled vehicles may be stored or serviced inside garages provided there are no leaks in the fuel system and the fuel tanks are not filled beyond the maximum filling capacity specified in WAC 296-24-47505 (12)(a).

(b) LP-gas-fueled vehicles being repaired in garages shall have the container shutoff valve closed except when fuel is required for engine operation.

(c) Such vehicles shall not be parked near sources of heat, open flames, or similar sources of ignition or near open pits unless such pits are adequately ventilated.

[Order 73-5, § 296-24-47511, filed 5/9/73 and Order 73-4, § 296-24-47511, filed 5/7/73.]

WAC 296-24-47513 Storage of containers awaiting use or resale. (1) Application. This section shall apply to the storage of portable containers not in excess of one thousand pounds water capacity, filled or partially filled, at user location but not connected for use, or in storage for resale by dealers or resellers. This section shall not apply to containers stored at charging plants or at plants devoted primarily to the storage and distribution of LP-gas or other petroleum products.

(2) General.

(a) Containers in storage shall be located so as to minimize exposure to excessive temperature rise, physical damage, or tampering by unauthorized persons.

(b) Containers when stored inside shall not be located near exits, stairways, or in areas normally used or intended for the safe exit of people.

(c) Container valves shall be protected while in storage as follows:

(i) By setting into recess of container to prevent the possibility of their being struck if the container is dropped upon a flat surface, or

(ii) By ventilated cap or collar, fastened to container capable of withstanding blow from any direction equivalent to that of a thirty-pound weight dropped four feet. Construction must be such that a blow will not be transmitted to a valve or other connection.

(d) The outlet valves of containers in storage shall be closed.

(e) Empty containers which have been in LP-gas service should preferably be stored in the open. When stored inside, they shall be considered as full containers for the purpose of determining the maximum quantity of LP-gas permitted by this section.

(3) Storage within buildings frequented by the public.

(a) DOT specification containers having a maximum individual water capacity of two and one-half pounds, used with completely self-contained hand torches and similar applications, are permitted to be stored or displayed in a building frequented by the public. The display of such containers shall be limited to a total of twenty-four units of each brand and size. The total quantity on display and in storage shall not exceed two hundred pounds LP-gas.

(b) Storage as provided in subsection (5) of this section shall not be permitted within or attached to such a building.

(4) Storage within buildings not frequented by the public (such as industrial buildings).

(a) The quantity of LP-gas stored shall not exceed three hundred pounds (approximately two thousand five hundred fifty cubic feet in vapor form) except as provided in subsection (5) of this section.

(b) Containers carried as a part of service equipment on highway mobile vehicles are not to be considered in the total storage capacity in (a) of this subsection provided such vehicles are stored in private garages, and are limited to one container per vehicle with an LP-gas capacity of not more than one hundred pounds. All container valves shall be closed.

(5) Storage within special buildings or rooms.

(a) The quantity of LP-gas stored in special buildings or rooms shall not exceed ten thousand pounds.

(b) The walls, floors, and ceilings of container storage rooms that are within or adjacent to other parts of the building shall be constructed of material having at least a two-hour fire resistance rating.

(c) A portion of the exterior walls or roof having an area not less than ten percent of that of the combined area of the enclosing walls and roof shall be of explosion relieving construction.

(d) Each opening from such storage rooms to other parts of the building shall be protected by a one and one-half-hour "(B)" fire door listed by a nationally recognized testing laboratory. Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(e) Such rooms shall have no open flames for heating or lighting.

(f) Such rooms shall be adequately ventilated both top and bottom to the outside only. The openings from such vents shall be at least five feet away from any other opening into any building.

(g) The floors of such rooms shall not be below ground level. Any space below the floor shall be of solid fill or properly ventilated to the open air.

(h) Such storage rooms shall not be located adjoining the line of property occupied by schools, churches, hospitals, athletic fields or other points of public gathering.

(i) Fixed electrical equipment shall be installed in accordance with WAC 296-24-47505(18).

(6) Storage outside of buildings.

(a) Storage outside of buildings, for containers awaiting use or resale, shall be located in accordance with Table H-33 with respect to:

(i) The nearest important building or group of buildings;

(ii) The line of adjoining property which may be built upon;

(iii) Busy thoroughfares;

(vi) The line of adjoining property occupied by schools, churches, hospitals, athletic fields, or other points of public gathering.

TABLE H-33

Quantity of LP-Gas Stored:	Distance
500 pounds or less	0
501 to 2,500 pounds	0*
2,501 to 6,000 pounds	10 feet
6,001 to 10,000 pounds	20 feet
Over 10,000 pounds	25 feet

* Container or containers shall be at least ten feet from any building on adjoining property, any sidewalk, or any of the exposures described in (a)(iii) or (iv) of this subsection.

(b) Containers shall be in a suitable enclosure or otherwise protected against tampering.

(7) Fire protection. Storage locations other than supply depots separated and located apart from dealer, reseller, or user establishments shall be provided with at least one approved portable fire extinguisher having a minimum rating of 8-B, C.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-47513, filed 11/14/88. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-47513, filed 11/13/80; Order 76-6, § 296-24-47513, filed 3/1/76; Order 73-5, § 296-24-47513, filed 5/9/73 and Order 73-4, § 296-24-47513, filed 5/7/73.]

WAC 296-24-47515 LP-gas system installations on commercial vehicles. (1) Application. This section applies to LP-gas-system installations on vehicles (whether self-propelled or of the trailer or semitrailer type) used for commercial, construction, or public service purposes such as mobile libraries and clinics; to all exchangeable container systems with container capacities greater than 105 pounds water capacity (approximately 45 pounds LP-gas capacity) and to systems using containers permanently mounted on vehicles. It does not apply to LP-gas motor fuel systems covered by WAC 296-24-47511. WAC 296-24-47505 applies to this section unless otherwise noted. When such a vehicle is permanently parked, and LP-gas is supplied from a system not mounted on and secured to the unit, WAC 296-24-47507 and 296-24-47509 shall apply.

(2) Construction and marking of containers. Containers shall be constructed in accordance with WAC 296-24-47505(3), and marked in accordance with the applicable requirements of WAC 296-24-47505(5), and shall also meet the following:

(a) Containers designed for use as portable cylinders shall be constructed in accordance with DOT specifications, and in accordance with WAC 296-24-47505 (2)(e); where applicable.

(b) All other containers whether designed for permanent mounting, or for portable or semiportable use (such as skid tanks), shall be constructed as provided for by WAC 296-24-47505 (2)(d) and (3)(a). Mounting, securing, and protection of such containers shall be as in (2)(c) and (d) of this section.

(c) Permanently installed containers shall meet the requirements of (2)(c)(i) and (ii) of this section with regard to container valves and accessories, and (2)(c)(iii) through (vi) of this section as to mounting.

(i) Nonrecessed container fittings and appurtenances shall be protected against damage by either:

(A) Their location.

(B) The vehicle frame or bumper, or

(C) Protective housing. The protective housing, if used, shall comply with the requirements under which the tanks are fabricated with respect to design and construction and shall be designed to withstand static loadings in any direction equal to twice the weight of the tank and attachments when filled with the lading using a safety factor of not less than four, based on the ultimate strength of the material to be used. The housing shall be provided with a weather cover if necessary to insure proper operation of valves and safety devices.

(ii) Manually operated shutoff valves, except as covered in WAC 296-24-47511 (2)(a), or self-closing internal valves shall be closed except during transfer operations.

(iii) Tank motor vehicles with frames not made integral with the tank, as by welding, shall be provided with turnbuckles or similar positive devices for drawing the tank down tight on the frame. In addition, suitable stops or anchors shall be attached to the frame and/or the tank to prevent relative motion between them due to starting, stopping, and turning. The stops and anchors shall be so installed as to be readily accessible for inspection and maintenance.

(iv) Any tank motor vehicle designed and constructed so that the cargo tank constitutes in whole or in part the stress member used in lieu of a frame shall be supported by external cradles subtending at least 120 degrees of the shell circumference. The design calculations shall include beam stress, shear stress, torsion stress, bending moment, and acceleration stress for the cargo tank as a whole using a factor of safety of four, based on the ultimate tensile strength of the material. Maximum concentrated stresses which might be created at pads and cradles due to shear, bending, and torsion shall also be calculated in accordance with Appendix G of the American Society of Mechanical Engineers, Unfired Pressure Vessel Code, 1968. Fully loaded vehicles shall be assumed to be operating under highway conditions equal to two "g" loading. The effects of fatigue shall be taken into consideration. Cargo tanks mounted on frames may be supported by longitudinal members attached to pads providing the above-stated factors are taken into account.

(v) Where any tank support is attached to any part of a tank head, the stresses imposed upon the head shall be provided for as required in (2)(c)(iv) of this section.

(vi) Tank supports, stops, anchors, and bumpers shall not be welded directly to the tank but shall be attached by means of pads of the same material as the tank. The pad thickness shall be not less than one-fourth inch, or the thickness of the shell material if less, and no greater than the shell material. Each pad shall extend at least four times its thickness, in each direction, beyond the weld attaching the support, bumper, stop, or anchor. Each pad shall be preformed to an inside

radius no greater than the outside radius of the tank at the place of attachment. Each pad corner shall be rounded to a radius at least one-fourth the width of the pad, and no greater than one-half the width of the pad. Weepholes and tell-tale holes, if used, shall be drilled or punched before the pads are attached to the tank. Each pad shall be attached to the tank by continuous fillet welding using filler material having properties conforming to the recommendations of the maker of the shell and head material.

(d) Portable or semiportable containers (skid tanks as covered by WAC 296-24-47509 (7)(g)) shall meet the applicable requirements of (2)(d)(i) to (vi) of this section inclusive with regard to container valves and accessories and WAC 296-24-47511 (4)(c) as to mounting. Containers designed for permanent installation as part of systems under WAC 296-24-47509 shall not be used.

(i) Nonrecessed container fittings and appurtenances shall be protected against damage by either—

(A) Their location.

(B) The vehicle frame or bumper, or

(C) A protective housing. The protective housing, if used, shall comply with the requirements under which the tanks are fabricated with respect to design and construction and shall be designed to withstand static loadings in any direction equal to twice the weight of the tank and attachments when filled with the lading using a safety factor of not less than four, based on the ultimate strength of the material to be used. The housing shall be provided with a weather cover if necessary to insure proper operation of valves and safety devices.

(ii) Filling connections shall be provided with approved automatic back pressure check valves, excess flow check valves or quick closing internal valves to prevent excessive escape of gas in case the filling connection is broken, except that where the filling and discharge connect on a common opening in the container shell, and that opening is fitted with a quick-closing internal valve as specified in (2)(d)(iii) of this section, the automatic valve shall not be required. In addition every inlet and outlet connection shall be equipped with a manually or automatically operated shutoff valve. Liquid discharge openings, except those for engine fuel lines, on tanks built after September 1, 1965, shall be fitted with a remotely controlled internal shutoff valve. Such valve shall conform to the following requirements:

(A) The seat of the valve shall be inside the tank, or in the opening nozzle or flange, or in a companion flange bolted to the nozzle or flange.

(B) All parts of the valve inside the tank, nozzle, or companion flange shall be made of material not subject to corrosion or other deterioration in the presence of the lading.

(C) The arrangement of parts shall be such that damage to parts exterior to the tank will not prevent effective seating of the valve.

(D) The valve may be operated normally by mechanical means, by hydraulic means, or by air, or gas pressure.

(E) The valve shall be provided with remote means of automatic closure, both mechanical and thermal, in at least two places for tanks over 3,500 gallons water capacity. These remote control stations shall be located at each end of the tank and diagonally opposite each other. The thermal control mechanism shall have a fusible element with a melting point not over 220°F or less then 208°F. At least one remote control station shall be provided for tanks of 3,500 gallons water capacity or less, and such actuating means may be mechanical.

(iii) All other connections to containers, except those used for gaging devices, thermometer wells, safety relief devices, and plugged openings, shall be provided with suitable automatic excess flow valves, or in lieu thereof may be fitted with quick-closing internal valves.

The control mechanism for the internal valve shall be provided with a secondary control, remote from the fill or discharge connections (for use in the event of accidents or fire during delivery operations), and such control mechanism shall have a fusible element with a melting point not over 220°F or less than 208°F.

(iv) Manually operated shutoff valves, except as covered in WAC 296-24-47511 (2)(a), or self-closing internal valves shall be closed except during transfer operations.

(v) Excess flow valves shall close automatically at the rated flow of vapor or liquid as specified by the valve manufacturers. The flow rating of the piping beyond the excess flow valve shall be greater than that of the excess flow valve and such rating shall include valves, fittings, and hose, except, when branching or necessary restrictions are incorporated in such a piping system so that flow ratings are less than that of the excess flow valve and the tank, then additional excess flow valves shall be installed in the piping where such flow rate is reduced.

(vi) Container inlets and outlets, except those used for safety relief valves, liquid-level gaging devices, and pressure gages, shall be labeled to designate whether they communicate with vapor or liquid space when the container is filled to maximum permitted filling density. (Labels may be on valves.)

(3) Capacity of a system. No single fuel container used on passenger carrying vehicles shall exceed 200 gallons water capacity.

(4) Description of a system. A system consists of an assembly of equipment installed on a commercial vehicle.

(5) Location of containers and systems.

(a) Containers shall not be installed, transported, or stored (even temporarily) inside any vehicle covered by these standards except as provided by the applicable regulations of DOT.

(b) Containers, control valves, and regulating equipment comprising a complete system shall be suitably protected against damage and weather. Systems may be installed in a recess vaportight to the inside of the vehicle and accessible from and vented to the outside.

(c) Systems installed outside of mobile units shall be so located that discharge from safety relief devices shall be not less than 3 feet horizontally away from any opening into the unit below the level of such discharge. When the system is located in a recess vaportight to the inside, vent openings in such recess shall be not less than 3 feet horizontally away from any opening into the mobile unit below the level of these vents.

(d) There shall be no fuel connection between tractor and trailer or other vehicle units.

(e) The container or container carrier shall be secured in place by fastenings designed and constructed with a minimum safety factor of four to withstand loading in any direction equal to twice the weight of the container when filled to normal capacity with LP-gas.

(6) Container valves and accessories. Container valves and accessories shall be provided, protected and mounted as follows:

(a) Systems utilizing DOT cylinders in accordance with WAC 296-24-47507(6).

(b) All other systems in accordance with WAC 296-24-47509 (3)(b) through (g).

(c) Portable, semiportable and permanently mounted containers shall be mounted and protected as provided under (2)(b) through (d) of this section.

(7) Safety-relief devices.

(a) DOT containers shall be provided with safety-relief devices as required by the regulations of DOT.

(b) ASME containers and API-ASME containers shall be provided with safety-relief devices as required by WAC 296-24-47505(10).

(c) A final stage regulator of an LP-gas system (excluding any appliance regulator) shall be equipped on the low-pressure side with a relief valve which is set to start to discharge within the limits specified in Table H-30. (See WAC 296-24-47509.)

(d) The relief valve and space above the regulator and relief valve diaphragms shall be vented to the outside air and terminate at a position to minimize the possibility of vapors accumulating at sources of ignition.

(e) Whenever equipment such as a cargo heater or cooler on commercial vehicles is a type designed to be in operation while in transit, suitable means to stop the flow such as an excess flow valve or other device, shall be installed. This device will be actuated to stop the flow in the event of the break in the fuel supply line. All excess flow valves shall comply with WAC 296-24-47505 (7)(c).

(8) System design and line pressure. Systems may be of either vapor withdrawal or liquid withdrawal type and shall comply with the applicable requirements for the type of usage involved.

(9) System enclosure and mounting.

(a) Housing or enclosures shall be designed to provide proper ventilation.

(b) Hoods, domes, or removable portions of cabinets shall be provided with means to keep them firmly in place during transit.

(c) Provision shall be incorporated in the assembly to hold the containers firmly in position and prevent their movement during transit in accordance with WAC 296-24-47511 (4)(c).

(d) Containers shall be mounted on a substantial support or base secured firmly to the vehicle chassis. Neither the container nor its support shall extend below the frame.

(10) Piping—Including pipe, tubing, and fittings.

(a) Regulators shall be connected directly to the container valve outlet or mounted securely by means of support bracket and connected to the container valve or valves with a listed high pressure flexible connector.

(b) Provision shall be made between the regulator outlet and the gas service lines by either a flexible connector or a tubing loop to provide for expansion, contraction, jarring, and vibration.

(c) Pipe, tubing, and fittings shall conform to WAC 296-24-47505(8) except that the use of aluminum alloy piping is prohibited. Steel tubing shall have a minimum wall thickness of 0.049 inch. Steel piping or tubing shall be adequately protected against exterior corrosion.

(d) Approved gas tubing fittings shall be employed for making tubing connections.

(e) The fuel line shall be firmly fastened in a protected location and where under the vehicle and outside and below any insulation or false bottom, fastenings shall be such as to prevent abrasion or damage to the gas line due to vibration. Where the fuel line passes through structural members or floors, a rubber grommet or equivalent shall be installed to prevent chafing.

(f) The fuel line shall be installed to enter the vehicle through the floor directly beneath or adjacent to the appliance which it serves. When a branch line is required the tee connection shall be in the main fuel line and located under the floor and outside the vehicle.

(g) All parts of the system assembly shall be so designed and secured as to preclude such parts working loose during transit.

(11) Appliances.

(a) LP-gas appliances shall be approved for use on commercial vehicles.

(b) In the case of vehicles not intended for human occupancy and where the gas-fired heating appliance is used to protect the cargo, such heater may be of the unvented type but provision shall be made to dispose of the products of combustion to the outside.

(c) In the case of vehicles intended for human occupancy, all gas-fired heating appliances, including water heaters, shall be designed or installed to provide for complete separation of the combustion system from the atmosphere of the living space. Such appliances shall be installed with the combustion air inlet assembly furnished as a component of the appliance and, also, with either—

(i) The flue gas outlet assembly furnished as a component of the appliance, or

(ii) A listed roof jack if the appliance is listed for such use.

The combustion air inlet assembly, flue gas outlet assembly, and roof jack shall extend to the outside atmosphere.

(d) Provision shall be made to insure an adequate supply of outside air for combustion.

(e) All gas-fired heating appliances and water heaters shall be equipped with an approved automatic device designed to shut off the flow of gas to the main burner and to the pilot in the event the pilot flame is extinguished.

(f) Gas-fired appliances installed in the cargo space shall be located so they are readily accessible.

(g) Appliances shall be constructed or protected to reduce to a minimum possible damage or impaired operation resulting from cargo shifting or handling.

(h) Appliances inside the vehicle shall be located so that a fire at an appliance will not block egress of persons therefrom.

(12) General precautions.

(a) DOT containers shall be marked, maintained, and requalified for use in accordance with the regulations of DOT.

(b) Containers which have not been requalified as required by DOT regulations shall be removed from service. Requalified containers shall be stamped with the date of requalification. When DOT cylinders are requalified by retesting, such retest shall be made in accordance with DOT regulations.

(c) Containers shall not be charged with fuel unless they bear the proper markings of the code or specifications under which they were constructed, and in addition, with their water capacity. In the case of cylinders or portable containers filled by weight, the container shall be marked with its tare-weight.

(d) DOT containers which have been involved in a fire shall not be recharged until they have been requalified for service according to DOT regulations.

(e) American Petroleum Institute-American Society of Mechanical Engineers (API-ASME) containers or ASME containers which have been involved in a fire shall not be recharged until they have been retested in accordance with the requirements for their original hydrostatic test and found to be suitable for continued service.

(f) Containers shall not be charged without the consent of the owner.

(g) A permanent caution plate shall be provided on the appliance or adjacent to the container outside of any enclosure. It shall include the word "caution" and following instructions, or instructions embodying substantially similar language.

(i) Be sure all appliance valves are closed before opening container valve.

(ii) Connections at appliances, regulators, and containers must be checked periodically for leaks with soapy water or its equivalent.

(iii) A match or flame shall not be used to check for leaks.

(iv) Container valves shall be closed when the equipment is not in use.

(13) Charging of containers. Containers shall be charged as provided in WAC 296-24-47505(12).

(14) Fire extinguisher. Mobile cook-units shall be provided with at least one approved portable fire extinguisher having a minimum rating of 8-B, C.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-47515, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-47515, filed 3/1/76; Order 73-5, § 296-24-47515, filed 5/9/73 and Order 73-4, § 296-24-47515, filed 5/7/73.]

WAC 296-24-47517 Liquefied petroleum gas service stations. (1) Application. This section applies to storage containers, and dispensing devices, and pertinent equipment in service stations where LP-gas is stored and is dispensed into fuel tanks of motor vehicles. See WAC 296-24-47511 for requirements covering use of LP-gas as a motor fuel. All requirements of WAC 296-24-47505 apply to this section unless otherwise noted.

(2) Design pressure and classification of storage containers. Storage containers shall be designed and classified in accordance with Table H-34.

(3) Container valves and accessories.

(a) A filling connection on the container shall be fitted with one of the following:

(i) A combination back-pressure check and excess flow valve.

(ii) One double or two single back-pressure valves.

(iii) A positive shutoff valve, in conjunction with either:

(A) An internal back-pressure valve, or

(B) An internal excess flow valve.

In lieu of an excess flow valve, filling connections may be fitted with a quick-closing internal valve, which shall remain closed except during operating periods. The mechanism for such valves may be provided with a secondary control which will cause it to close automatically in case of fire. When a fusible plug is used its melting point shall not exceed 220°F.

TABLE H-34

Container type	For gases with vapor press. not to exceed lb. per sq. in. gage at 100°F. (37.8°C.)	Minimum design pressure of container, lb. per sq. in gage	
		1949 and earlier editions of ASME Code (Par. U-68, U-69)	1949 edition of ASME Code (Par. U-200, U-201); 1950, 1952 1956, 1959, 1962, 1965, and 1968 (Division I) editions of ASME Code; All editions of API-ASME Code[2]
200[1]	215	200	250

[1]Container type may be increased by increments of 25. The minimum design pressure of containers shall be 100% of the container type designation when constructed under 1949 or earlier editions of ASME Code (Par. U-68 and U-69). The minimum design pressure of containers shall be 125% of the container type designation when constructed under: (1) The 1949 ASME Code (Par. U-200 and U-201), (2) 1950, 1952, 1956, 1959, 1962, 1965, and 1968 (Division I) editions of the ASME Code, and (3) all editions of the API-ASME Code.

[2]Construction of containers under the API-ASME Code is not authorized after July 1, 1961.

(b) A filling pipe inlet terminal not on the container shall be fitted with a positive shutoff valve in conjunction with either:

(i) A back pressure check valve, or

(ii) An excess flow check valve.

(c) All openings in the container except those listed below shall be equipped with approved excess flow check valves:

(i) Filling connections as provided in (3)(a) of this section.

(ii) Safety relief connections as provided in WAC 296-24-47505 (7)(b).

(iii) Liquid-level gaging devices as provided in WAC 296-24-47505 (7)(d) and (19)(d).

(iv) Pressure gage connections as provided in WAC 296-24-47505 (7)(e).

(d) All container inlets and outlets except those listed below shall be labeled to designate whether they connect with vapor or liquid (labels may be on valves):

(i) Safety relief valves.

(ii) Liquid-level gaging devices.

(iii) Pressure gages.

(e) Each storage container shall be provided with a suitable pressure gage.

(4) Safety-relief valves.

(a) All safety-relief devices shall be installed as follows:

(i) On the container and directly connected with the vapor space.

(ii) Safety-relief valves and discharge piping shall be protected against physical damage. The outlet shall be provided with loose-fitting rain caps. There shall be no return bends or restrictions in the discharge piping.

(iii) The discharge from two or more safety relief valves having the same pressure settings may be run into a common discharge header. The cross-sectional area of such header shall be at least equal to the sum of the individual discharges.

(iv) Discharge from any safety relief device shall not terminate in any building nor beneath any building.

(b) Aboveground containers shall be provided with safety relief valves as follows:

(i) The rate of discharge, which may be provided by one or more valves, shall be not less than that specified in WAC 296-24-47505 (10)(b).

(ii) The discharge from safety relief valves shall be vented to the open air unobstructed and vertically upwards in such a manner as to prevent any impingement of escaping gas upon the container; loose-fitting rain caps shall be used. On a container having a water capacity greater than 2,000 gallons, the discharge from the safety relief valves shall be vented away from the container vertically upwards to a point at least 7 feet above the container. Suitable provisions shall be made so that any liquid or condensate that may accumulate inside of the relief valve or its discharge pipe will not render the valve inoperative. If a drain is used, a means shall be provided to protect the container, adjacent containers, piping, or equipment against impingement of flame resulting from ignition of the product escaping from the drain.

(c) Underground containers shall be provided with safety relief valves as follows:

(i) The discharge from safety-relief valves shall be piped vertically upward to a point at least 10 feet above the ground. The discharge lines or pipes shall be adequately supported and protected against physical damage.

(ii) Where there is a probability of the manhole or housing becoming flooded, the discharge from regulator vent lines should be above the highest probable water level.

(iii) If no liquid is put into a container until after it is buried and covered, the rate of discharge of the relief valves may be reduced to not less than 30 percent of the rate shown in WAC 296-24-47505 (10)(b). If liquid fuel is present during installation of containers, the rate of discharge shall be the same as for aboveground containers. Such containers shall not be uncovered until emptied of liquid fuel.

(5) Capacity of liquid containers. Individual storage containers shall not exceed 30,000 gallons water capacity.

(6) Installation of storage containers.

(a) Each storage container used exclusively in service station operation shall comply with the following table which specifies minimum distances to a building, groups of buildings, and adjoining property lines which may be built upon.

Water capacity per container (gallons)	Minimum distances	
	Aboveground and underground (feet)	Between aboveground containers (feet)
Up to 2,000	25	3
Over 2,000	50	5

Note: The above distances may be reduced to not less than 10 feet for service station buildings of other than wood frame construction.

(i) Readily ignitible material including weeds and long dry grass, shall be removed within 10 feet of containers.

(ii) The minimum separation between LP-gas containers and flammable liquid tanks shall be 20 feet and the minimum separation between a container and the centerline of the dike shall be 10 feet.

(iii) LP-gas containers located near flammable liquid containers shall be protected against the flow or accumulation of flammable liquids by diking, diversion curbs, or grading.

(iv) LP-gas containers shall not be located within diked areas for flammable liquid containers.

(v) Field welding is permitted only on saddle plates or brackets which were applied by the container manufacturer.

(vi) When permanently installed containers are interconnected, provision shall be made to compensate for expansion, contraction, vibration, and settling of containers and interconnecting piping. Where flexible connections are used, they shall be of an approved type and shall be designed for a bursting pressure of not less than five times the vapor pressure of the product at 100°F. The use of nonmetallic hose is prohibited for interconnecting such containers.

(vii) Where high water table or flood conditions may be encountered protection against container flotation shall be provided.

(b) Aboveground containers shall be installed in accordance with this section.

(i) Containers may be installed horizontally or vertically.

(ii) Containers shall be protected by crash rails or guards to prevent physical damage unless they are so protected by virtue of their location. Vehicles shall not be serviced within 10 feet of containers.

(iii) Container foundations shall be of substantial masonry or other noncombustible material. Containers shall be mounted on saddles which shall permit expansion and contraction, and shall provide against the excessive concentration of stresses. Corrosion protection shall be provided for tank-mounting areas. Structural metal container supports shall be protected against fire. This protection is not required on prefabricated storage and pump assemblies, mounted on a common base, with container bottom not more than 24 inches above ground and whose water capacity is 2,000 gallons or less if the piping connected to the storage and pump assembly is sufficiently flexible to minimize the possibility of breakage or leakage in the event of failure of the container supports.

(c) Underground containers shall be installed in accordance with this section.

(i) Containers shall be given a protective coating before being placed under ground. This coating shall be equivalent to hot-dip galvanizing or to two coatings of red lead followed by a heavy coating of coal tar or asphalt. In lowering the container into place, care shall be exercised to minimize abrasion or other damage to the coating. Damage to the coating shall be repaired before back-filling.

(ii) Containers shall be set on a firm foundation (firm earth may be used) and surrounded with earth or sand firmly tamped in place. Backfill should be free of rocks or other abrasive materials.

(iii) A minimum of 2 feet of earth cover shall be provided. Where ground conditions make compliance with this requirement impractical, equivalent protection against physical damage shall be provided. The portion of the container to which manhole and other connections are attached need not be covered. If the location is subjected to vehicular traffic, containers shall be protected by a concrete slab or other cover adequate to prevent the weight of a loaded vehicle imposing concentrated direct loads on the container shell.

(7) Protection of container fittings. Valves, regulators, gages, and other container fittings shall be protected against tampering and physical damage.

(8) Transport truck unloading point.

(a) During unloading, the transport truck shall not be parked on public thoroughfares and shall be at least 5 feet from storage containers and shall be positioned so that shutoff valves are readily accessible.

(b) The filling pipe inlet terminal shall not be located within a building nor within 10 feet of any building or driveway. It shall be protected against physical damage.

(9) Piping, valves, and fittings.

(a) Piping may be underground, above ground, or a combination of both. It shall be well supported and protected against physical damage and corrosion.

(b) Piping laid beneath driveways shall be installed to prevent physical damage by vehicles.

(c) Piping shall be wrought iron or steel (black or galvanized), brass or copper pipe; or seamless copper, brass, or steel tubing and shall be suitable for a minimum pressure of 250 p.s.i.g. Pipe joints may be screwed, flanged, brazed, or welded. The use of aluminum alloy piping or tubing is prohibited.

(d) All shutoff valves (liquid or gas) shall be suitable for liquefied petroleum gas service and designed for not less than the maximum pressure to which they may be subjected. Valves which may be subjected to container pressure shall have a rated working pressure of at least 250 p.s.i.g.

(e) All materials used for valve seats, packing, gaskets, diaphragms, etc., shall be resistant to the action of LP-gas.

(f) Fittings shall be steel, malleable iron, or brass having a minimum working pressure of 250 p.s.i.g. Cast iron pipe fittings, such as ells, tees and unions shall not be used.

(g) All piping shall be tested after assembly and proved free from leaks at not less than normal operating pressures.

(h) Provision shall be made for expansion, contraction, jarring, and vibration, and for settling. This may be accomplished by flexible connections.

(10) Pumps and accessories. All pumps and accessory equipment shall be suitable for LP-gas service, and designed for not less than the maximum pressure to which they may be subjected. Accessories shall have a minimum rated working pressure of 250 p.s.i.g. Positive displacement pumps shall be equipped with suitable pressure actuated bypass valves permitting flow from pump discharge to storage container or pump suction.

(11) Dispensing devices.

(a) Meters, vapor separators, valves, and fittings in the dispenser shall be suitable for LP-gas service and shall be designed for a minimum working pressure of 250 p.s.i.g.

(b) Provisions shall be made for venting LP-gas contained in a dispensing device to a safe location.

(c) Pumps used to transfer LP-gas shall be equipped to allow control of the flow and to prevent leakage or accidental discharge. Means shall be provided outside the dispensing device to readily shut off the power in the event of fire or accident.

(d) A manual shutoff valve and an excess flow check valve shall be installed downstream of the pump and ahead of the dispenser inlet.

(i) Dispensing hose shall be resistant to the action of LP-gas in the liquid phase and designed for a minimum bursting pressure of 1,250 p.s.i.g.

(ii) An excess flow check valve or automatic shutoff valve shall be installed at the terminus of the liquid line at the point of attachment of the dispensing hose.

(e) LP-gas dispensing devices shall be located not less than 10 feet from aboveground storage containers greater than 2,000 gallons water capacity. The dispensing devices shall not be less then 20 feet from any building (not including canopies), basement, cellar, pit, or line of adjoining property which may be built upon and not less than 10 feet from sidewalks, streets, or thoroughfares. No drains or blowoff lines shall be directed into or in proximity to the sewer systems used for other purposes.

(i) LP-gas dispensing devices shall be installed on a concrete foundation or as part of a complete storage and dispensing assembly mounted on a common base, and shall be adequately protected from physical damage.

(ii) LP-gas dispensing devices shall not be installed within a building except that they may be located under a weather shelter or canopy provided this area is not enclosed on more than two sides. If the enclosing sides are adjacent to each other, the area shall be properly ventilated.

(f) The dispensing of LP-gas into the fuel container of a vehicle shall be performed by a competent attendant who shall remain at the LP-gas dispenser during the entire transfer operation.

(12) Additional standards. There shall be no smoking on the driveway of service stations in the dispensing areas or transport truck unloading areas. Conspicuous signs prohibiting smoking shall be posted within sight of the customer being served. Letters on such signs shall be not less than 4 inches high. The motors of all vehicles being fueled shall be shut off during the fueling operations.

(13) Electrical. Electrical equipment and installations shall conform to WAC 296-24-47505 (17) and (18).

(14) Fire protection. Each service station shall be provided with at least one approved portable fire extinguisher having at least an 8-B, C, rating.

[Order 73-5, § 296-24-47517, filed 5/9/73 and Order 73-4, § 296-24-47517, filed 5/7/73.]

PART F-2
STORAGE AND HANDLING OF ANHYDROUS AMMONIA

WAC 296-24-510 Storage and handling of anhydrous ammonia.

[Order 73-5, § 296-24-510, filed 5/9/73 and Order 73-4, § 296-24-510, filed 5/7/73.]

WAC 296-24-51001 Scope. (1) This standard is intended to apply to the design, construction, location, installation, and operation of anhydrous ammonia systems including refrigerated ammonia storage systems.

(2) This standard does not apply to:

(a) Ammonia manufacturing plants.

(b) Refrigeration plants where ammonia is used solely as a refrigerant. Such systems are covered in American National Standard Safety Code for Mechanical Refrigeration, B-9.1. (See Appendix C for availability.) The provisions of ANSI B-9.1 are not appropriate to refrigerated ammonia storage systems as covered in this standard.

(c) Ammonia transportation pipelines.

[Order 73-5, § 296-24-51001, filed 5/9/73 and Order 73-4, § 296-24-51001, filed 5/7/73.]

WAC 296-24-51003 General. (1) The term "anhydrous ammonia" as used in this standard refers to the compound formed by a combination of two gaseous elements, nitrogen and hydrogen, in the proportion of one part nitrogen to three parts hydrogen by volume. Anhydrous ammonia may be in either gaseous or liquid form. It is not to be confused with aqua ammonia which is a solution of ammonia gas in water. Whenever the term "ammonia" appears in this standard, it is understood to mean anhydrous ammonia.

(2) It is important that personnel understand the properties of this gas and that they be thoroughly trained in safe practices for its storage and handling. Some of the important physical properties of ammonia are listed in (4) of this section.

(3) Gaseous ammonia liquefies under pressure at ambient temperature. Advantage of this characteristic is taken by industry and for convenience this commodity is usually shipped and stored under pressure as a liquid. When refrigerated to or below its normal boiling point (-28°F) it may be shipped and stored as a liquid at atmospheric pressure.

(4) Physical properties of ammonia:

Molecular symbol	NH_3
Molecular weight	17.032
Boiling point at one atmosphere (one atmosphere = 14.7 psia)	-28°F
Melting point at one atmosphere	-107.9°F
Critical temperature	271.4°F
Critical pressure	1657 psia
Latent heat at -28°F and one atmosphere	589.3 BTU per pound
Relative density of vapor compared to dry air at 32°F and one atmosphere	0.5970
Vapor density at -28°F and one atmosphere	0.05555 lb. per cu. ft.
Specific gravity of liquid at -28°F compared to water at 39.2°F	0.6819
Liquid density at -28°F and one atmosphere	42.57 lb. per cu. ft.
Specific volume of vapor at 32°F and one atmosphere	20.78 cu. ft. per pound
Flammable limits by volume in air at atmospheric pressure	16% to 25%
Ignition temperature (in a standard quartz container)	1562°F
Specific heat, gas, 15 C, one atm at constant pressure, C_P	0.5232 Btu/lb. degree °F
at constant volume, C_V	0.3995 Btu/lb. degree °F

(5) Experience has shown that ammonia is extremely hard to ignite and under normal conditions is a very stable compound. It takes temperatures of 840-930°F to cause it to dissociate slightly at atmospheric pressure. The flammable limits at atmospheric pressure are 16% to 25% by volume of ammonia in air. Experiments conducted by a nationally recognized laboratory indicated that an ammonia-air mixture in a standard quartz test container does not ignite below 1562°F. Ammonia is classified by the United States Department of Transportation and the U.S. Coast Guard as a nonflammable compressed gas for the purpose of transportation.

(6) Ammonia should be handled only by properly trained personnel. In no case shall ammonia be used in conjunction with chemicals unless the possible reactions have first been adequately investigated. Under some circumstances ammonia and ammonium compounds can form explosive products with other chemicals. For additional information refer to NFPA 491M "Manual on Hazardous Chemical Reactions" (see Appendix C for availability) and CG-388, the "Chemical Data Guide for Bulk Shipment by Water" (1969 Edition).

(7) Ammonia gas irritates the skin and mucous membrane. At 50 ppm its odor is detectable by most people. The maximum allowable concentration for an 8 hour working exposure is specified as 50 PPM by the American Conference of Government Industrial Hygienists. Because it serves as its own warning agent, no person will voluntarily remain in concentrations which are hazardous. At 5000 ppm it is rapidly fatal. Since ammonia gas is lighter than air, adequate ventilation is the best means of preventing any accumulation.

(8) The common metals are not attacked by dry ammonia. Zinc, copper and copper base alloys such as brass are subject to rapid destructive action by ammonia in the presence of water.

[Order 73-5, § 296-24-51003, filed 5/9/73 and Order 73-4, § 296-24-51003, filed 5/7/73.]

WAC 296-24-51005 Definitions. The following definitions are applicable to all sections of this chapter which

include WAC 296-24-510 in the section number and shall be construed to have the meanings below.

(1) "Approved" as used in these standards means:

(a) Listed by a recognized testing laboratory, or

(b) Recommended by the manufacturer as suitable for use with anhydrous ammonia and so marked, or

(c) Accepted by the authority having jurisdiction.

(2) "Appurtenance" refers to all devices such as pumps, compressors, safety relief devices, liquid-level gaging devices, valves and pressure gages.

(3) "Capacity" refers to the total volume of the container measured in U.S. gallons, unless otherwise specified.

(4) "Cylinder" means a container of 1000 pounds water capacity or less constructed in accordance with United States Department of Transportation Specifications.

(5) The "code" refers to the Unfired Pressure Vessel Code of the American Society of Mechanical Engineers (Section VIII of the ASME Boiler Construction Code), 1952, 1956, 1959, 1962, 1965, 1968 and 1971 editions, the joint code of the American Petroleum Institute and the American Society of Mechanical Engineers (API-ASME Code) 1951 edition, and subsequent amendments to or later editions of the same, as adopted.

(6) "Container" includes all vessels, tanks, cylinders or spheres used for transportation, storage or application of anhydrous ammonia.

(7) "Design pressure" is identical to the term "maximum allowable working pressure" used in the code.

(8) An "implement of husbandry" is a farm wagon-type tank vehicle of not over 3000 gallons capacity, used as a field storage "nurse tank" supplying the fertilizer to a field applicator and moved on highways only for bringing the fertilizer from a local source of supply to farms or fields or from one farm or field to another.

(9) "Filling density" means the per cent ratio of the weight of the gas in a container to the weight of water at 60°F that the container will hold. One lb. H^2O = 27.737 cu. in. at 60°F. For determining the weight capacity of the tank in pounds, the weight of a gallon (231 cubic inches) of water at 60°F in air shall be 8.32828 pounds.

(10) "Gas" refers to anhydrous ammonia in either the gaseous or liquefied state.

(11) "Gas mask" refers to gas masks approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH). See American National Standards Institute for Respiratory Protection, Z88.2. (See Appendix C for availability.)

(12) "DOT regulations" refer to hazardous materials regulations of the department of transportation (Title 49—Transportation, Code of Federal Regulations, Parts 171 to 190), including Specifications for Shipping Containers.

(13) "Systems" as used in these standards refers to an assembly of equipment consisting essentially of the container or containers, appurtenances, pumps, compressors, and interconnecting piping.

(14) The abbreviations "psig" and "psia" refer to pounds per square inch gage and pounds per square inch absolute, respectively.

(15) The terms "charging" and "filling" are used interchangeably and have the same meaning.

(16) "Trailer" as used in these standards refers to every vehicle designed for carrying property and for being drawn by a motor vehicle and so constructed that no part of its weight except the towing device rests upon the towing vehicle.

(17) "Tank motor vehicle" means any motor vehicle designed or used for the transportation of anhydrous ammonia in any tank designed to be permanently attached to any motor vehicle or any container not permanently attached to any motor vehicle which by reason of its size, construction or attachment to any motor vehicle must be loaded and/or unloaded without being removed from the motor vehicle.

(18) "Semitrailer" refers to every vehicle designed for carrying property and for being drawn by a motor vehicle and so constructed that some part of its weight and that of its load rests upon or is carried by another vehicle.

(19) "Safety relief valve" refers to an automatic spring loaded or equivalent type pressure activated device for gas or vapor service characterized by pop action upon opening, sometimes referred to as a pop valve. (Refer to American National Standards Institute, Terminology for Pressure Relief Devices, B95.1.)

(20) "Hydrostatic relief valve" refers to an automatic pressure activated valve for liquid service characterized by throttle or slow weep opening (nonpop action). (Refer to American National Standards Institute, Terminology for Pressure Relief Devices, B95.1.)

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-51005, filed 7/20/94, effective 9/20/94; Order 74-27, § 296-24-51005, filed 5/7/74; Order 73-5, § 296-24-51005, filed 5/9/73 and Order 73-4, § 296-24-51005, filed 5/7/73.]

WAC 296-24-51007 Use of water in emergencies. (1) The concentration of ammonia vapor in air can effectively be reduced by the use of adequate volumes of water applied through spray or fog nozzles.

(2) Water should be used on liquid ammonia spills only if sufficient water is available. For the purpose of this section, sufficient water may be taken to be 100 parts of water to one part of ammonia.

(3) If an ammonia container is exposed to fire and cannot be removed, water should be used to cool it.

(4) Under some circumstances ammonia in a container is colder than the available water supply. Under these circumstances water should not be sprayed on the container walls since it would heat the ammonia and aggravate any gas leak.

(5) If it is found necessary to dispose of ammonia, as from a leaking container, liquid ammonia should be discharged into a vessel containing water sufficient to absorb it. Sufficient water may be taken to be ten parts of water per part ammonia. The ammonia should be injected into the water as near the bottom of the vessel as practical.

[Order 73-5, § 296-24-51007, filed 5/9/73 and Order 73-4, § 296-24-51007, filed 5/7/73.]

WAC 296-24-51009 Basic rules. This section applies to all sections of this chapter which include WAC 296-24-510 in the section number unless otherwise noted.

(1) Approval of equipment and systems. Each appurtenance shall be approved in accordance with (a), (b), (c), and (d) of this subsection.

(a) It was installed before February 8, 1973 and was approved and tested, and installed in accordance with either the provisions of the American National Standard for the Storage and Handling of Anhydrous Ammonia, K61.1, or the Fertilizer Institute Standards for the Storage and Handling of Agricultural Anhydrous Ammonia, M-1, in effect at the time of installation; or

(b) It is accepted, or certified, or listed, or labeled, or otherwise determined to be safe by a nationally recognized testing laboratory; or

(c) It is a type which no nationally recognized testing laboratory does, or will undertake to accept, certify, list, label, or determine to be safe; and such equipment is inspected or tested by any federal, state, municipal, or other local authority responsible for enforcing occupational safety provisions of a federal, state, municipal or other local law, code, or regulation pertaining to the storage, handling, transport, and use of anhydrous ammonia, and found to be in compliance with either the provisions of the American National Standard for the Storage and Handling of Anhydrous Ammonia, K61.1, or the Fertilizer Institute Standards for the Storage and Handling of Agricultural Anhydrous Ammonia, M-1, in effect at the time of installation; or

(d) It is a custom-designed and custom-built unit, which no nationally recognized testing laboratory, or federal, state, municipal or local authority responsible for the enforcement of a federal, state, municipal, or local law, code or regulation pertaining to the storage, transportation and use of anhydrous ammonia is willing to undertake to accept, certify, list, label or determine to be safe, and the employer has on file a document attesting to its safe condition following the conduct of appropriate tests. The document shall be signed by a registered professional engineer or other person having special training or experience sufficient to permit him/her to form an opinion as to safety of the unit involved. The document shall set forth the test bases, test data and results, and also the qualifications of the certifying person.

(e) For the purposes of this section the word "listed" means that equipment is of a kind mentioned in a list which is published by a nationally recognized laboratory which makes periodic inspection of the production of such equipment, and states such equipment meets nationally recognized standards or has been tested and found safe for use in a specified manner. "Labeled" means there is attached to it a label, symbol, or other identifying mark of a nationally recognized testing laboratory which makes periodic inspections of the production of such equipment, and whose labeling indicates compliance with nationally recognized standards or tests to determine safe use in a specified manner. "Certified" means it has been tested and found by a nationally recognized testing laboratory to meet nationally recognized standards or to be safe for use in a specified manner, or is of a kind whose production is periodically inspected by a nationally recognized testing laboratory, and it bears a label, tag, or other record of certification.

(f) For purposes of this section, refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(2) Requirements for construction, original test and requalification of not-refrigerated containers.

(a) Containers used with systems covered in WAC 296-24-51011 and 296-24-51017 through 296-24-51021 shall be constructed and tested in accordance with the code except that construction under Table UW - 12 at a basic joint efficiency of under eighty percent is not authorized.

Containers built according to the code do not have to comply with paragraphs UG-125 to UG-128, inclusive, and paragraphs UG-132 and UG-133 of the code.

(b) Containers exceeding thirty-six inches in diameter or two hundred fifty gallons water capacity shall be constructed to comply with one or more of the following:

(i) Containers shall be stress relieved after fabrication in accordance with the code, or

(ii) Cold-formed heads, when used, shall be stress relieved or,

(iii) Hot-formed heads shall be used.

(c) Welding to the shell, head, or any other part of the container subject to internal pressure shall be done in compliance with WAC 296-24-51005(5). Other welding is permitted only on saddle plates, lugs, or brackets attached to the container by the container manufacturer.

(d) Containers used with systems covered by subsection (3)(b)(iv) of this section shall be constructed and tested in accordance with the DOT specifications.

(e) The provisions of (a) of this subsection shall not be construed as prohibiting the continued use or reinstallation of containers constructed and maintained in accordance with the 1949, 1950, 1952, 1956, 1959, 1962, 1965 and 1968 editions of the Unfired Pressure Vessel Code of the ASME or any revisions thereof in effect at the time of fabrication.

(3) Markings on nonrefrigerated containers and systems other than DOT containers.

(a) System nameplates, when required, shall be permanently attached to the system so as to be readily accessible for inspection and shall include markings as prescribed in (b) of this subsection.

(b) Each container or system covered in WAC 296-24-51011, 296-24-51017, 296-24-51019 and 296-24-51021 shall be marked as specified in the following:

(i) With a marking identifying compliance with the rules of the code under which the container is constructed.

(ii) With a notation on the container and system nameplate when the system is designed for underground installation.

(iii) With the name and address of the supplier of the container or the trade name of the container and with the date of fabrication.

(iv) With the water capacity of the container in pounds at 60°F or gallons, United States standard.

(v) With the design pressure in pounds per square inch gage.

(vi) With the wall thickness of the shell and heads.

(vii) With marking indicating the maximum level to which the container may be filled with liquid anhydrous ammonia at temperatures between 20°F and 100°F except on

containers provided with fixed maximum level indicators, such as fixed length dip tubes, or containers that are filled by weight. Markings shall be in increments of not more than 20°F.

(viii) With the outside surface area in square feet.

(ix) With minimum temperature in Fahrenheit for which the container is designed.

(x) Marking specified on container shall be on the container itself or on a nameplate permanently affixed thereto.

(c) All main operating valves on permanently installed containers having a capacity of over three thousand water gallons shall be identified to show whether the valve is in liquid or vapor service. The recommended method of identification may be legend or color code as specified in (c)(i) and (ii) of this subsection:

(i) Legend: The legend **liquid** (or **liquid valve**), **vapor** (or **vapor valve**), as appropriate, shall be placed on or within twelve inches of the valve by means of a stencil tag, or decal.

(ii) Color code: Liquid valves shall be painted orange and vapor valves shall be painted yellow. The legend **orange-liquid, yellow-vapor** shall be displayed in one or more conspicuous places at each permanent storage location. The legend shall have letters at least two inches high and shall be placed against a contrasting background. This is in accordance with American National Standard A13.1 "Schemes for Identification of Piping Systems"—1956, Page 5.

(4) Marking refrigerated containers. (See WAC 296-24-51013(3). Marking refrigerated containers.)

(5) Location of containers.

(a) Consideration shall be given to the physiological effects of ammonia as well as to adjacent fire hazards in selecting the location for a storage container. Containers shall be located outside of buildings or in buildings or sections thereof especially approved for this purpose.

(b) Containers shall be located at least fifty feet from a dug well or other sources of potable water supply, unless the container is a part of a water treatment installation.

(c) The location of permanent storage containers shall be outside densely populated areas.

(d) Container locations shall comply with the following table:

Nominal Capacity of Container	Minimum Distances (feet) from Container to:		
	Line of Adjoining Property Which may be Built upon, Highways & Mainline of Railroad	Place of Public Assembly	Institution Occupancy
Over 500 to 2,000	25	150	250
Over 2,000 to 30,000	50	300	500
Over 30,000 to 100,000	50	450	750
Over 100,000	50	600	1,000

(e) Storage areas shall be kept free of readily ignitable materials such as waste, weeds and long dry grass.

(6) Container appurtenances.

(a) All appurtenances shall be designed for not less than the maximum working pressure of that portion of the system on which they are installed. All appurtenances shall be fabricated from materials proved suitable for anhydrous ammonia service.

(b) All connections to containers except safety relief devices, gaging devices, or those fitted with a No. 54 drill size orifice shall have shutoff valves located as close to the container as practicable.

(c) Excess flow valves where required by these standards shall close automatically at the rated flows of vapor or liquid as specified by the manufacturer. The connections and line including valves and fittings being protected by an excess flow valve shall have a greater capacity than the rated flow of the excess flow valve.

(d) Liquid level gaging devices that require bleeding of the product to the atmosphere and which are so constructed that outward flow will not exceed that passed by a No. 54 drill size opening need not be equipped with excess flow valves.

(e) Openings from container or through fittings attached directly on container to which pressure gage connections are made need not be equipped with excess flow valves if such openings are not larger than No. 54 drill size.

(f) Excess flow and back pressure check valves where required by these standards shall be located inside of the container or at a point outside as close as practicable to where the line enters the container. In the latter case, installation shall be made in such manner that any undue stress beyond the excess flow or back pressure check valve will not cause breakage between the container and the valve.

(g) Excess flow valves shall be designed with a bypass, not to exceed a No. 60 drill size opening to allow equalization of pressures.

(h) Shutoff valves provided with an excess flow valve shall be designed for proper installation in a container connection so that the excess flow valve will close should the shutoff valve break.

(i) All excess flow valves shall be plainly and permanently marked with the name or trademark of the manufacturer, the catalog number, and the rated capacity.

(7) Piping, tubing and fittings.

(a) All piping, tubing and fittings shall be made of material suitable for anhydrous ammonia service.

(b) All piping, tubing and fittings shall be designed for a pressure not less than the maximum pressure to which they may be subjected in service.

(c) All piping shall be well supported and provision shall be made for expansion and contraction. All refrigeration system piping shall conform to the Refrigeration Piping Code (ANSI B31.5 1966 addenda B31.1a-1968), a section of the American Standard Code for Pressure Piping, as it applies to ammonia.

(d) Piping used on nonrefrigerated systems shall be at least ASTM A-53-1969 Grade B Electric Resistance Welded and Electric Flash Welded Pipe or equal. Such pipe shall be at least Schedule 40 when joints are welded, or welded and flanged. Such pipe shall be at least Schedule 80 when joints are threaded. Brass, copper, or galvanized steel pipe or tubing shall not be used.

(e) All metal flexible connections for permanent installations shall have a minimum working pressure of 250 p.s.i.g. (safety factor of 4). For temporary installations, hose meeting the requirement of subsection (8) of this section may be used.

(f) Cast iron fittings shall not be used but this shall not prohibit the use of fittings made specially for ammonia service of malleable or nodular iron such as Specification ASTM A47 or ASTM A395.

(g) Provisions shall be made for expansion, contraction, jarring, vibration, and for settling.

(h) Adequate provisions shall be made to protect all exposed piping from physical damage that might result from moving machinery, the presence of automobiles or trucks, or any other undue strain that may be placed upon the piping.

(i) Joint compounds shall be resistant to ammonia.

(j) After assembly, all piping and tubing shall be tested and proved to be free from leaks at a pressure not less than the normal operating pressure of the system.

(8) Hose specification.

(a) Hose used in ammonia service and subject to container pressure shall conform to the joint Rubber Manufacturers Association and the Fertilizer Institute "Hose Specifications for Anhydrous Ammonia" (see Appendix B).

(b) Hose subject to container pressure shall be designed for a minimum working pressure of 350 p.s.i.g. and a minimum burst pressure of 1750 p.s.i.g. Hose assemblies, when made up, shall be capable of withstanding a test pressure of 500 p.s.i.g.

(c) Hose and hose connections located on the low pressure side of flow control or pressure reducing valves on devices discharging to atmospheric pressure shall be designed for the maximum low side working pressure. All connections shall be designed, constructed, and installed so that there will be no leakage when connected.

(d) Where liquid transfer hose is not drained of liquid upon completion of transfer operations, such hose shall be equipped with an approved shutoff valve at the discharge end. Provision shall be made to prevent excessive hydrostatic pressure in the hose. (See subsection (9)(j) of this section.)

(e) On all hose one-half inch O.D. and larger, used for the transfer of anhydrous ammonia liquid or vapor, there shall be etched, cast, or impressed at five-foot intervals the following information:

"Anhydrous Ammonia"
xxx p.s.i.g. (Maximum working pressure)
Manufacturer's Name or Trademark
Year of Manufacture

(9) Safety relief devices.

(a) Every container used in systems covered by WAC 296-24-51011, 296-24-51017, 296-24-51019 and 296-24-51021 shall be provided with one or more safety relief valves of the spring-loaded or equivalent type. The discharge from safety relief valves shall be vented away from the container, upward and unobstructed to the atmosphere. All safety relief valve discharge openings shall have suitable raincaps that will allow free discharge of the vapor and prevent the entrance of water. Provision shall be made for draining condensate which may accumulate. The rate of the discharge shall be in accordance with the provisions of Appendix A.

(b) Container safety relief valves shall be set to start-to-discharge as follows, with relations to the design pressure of the container.

Containers	Minimum	Maximum*
ASME U-68, U-69	110%	125%
ASME U-200, U-201	95%	100%
ASME 1952, 1956, 1959, 1962, 1965, 1968 or 1971	95%	100%
API-ASME	95%	100%
U.S. Coast Guard (As required by USCG regulations)		
DOT (As required by DOT regulations)		

*Note: A relief valve manufacturer's tolerance of plus ten percent is permitted.

(c) Safety relief devices used in systems covered by WAC 296-24-51011, 296-24-51017, 296-24-51019 and 296-24-51021 shall be constructed to discharge at not less than the rates required in (a) of this subsection before the pressure is in excess of one hundred twenty percent (not including the ten percent tolerance referred to in (b) of this subsection) of the maximum permitted start-to-discharge pressure setting of the device.

(d) Safety relief valves shall be so arranged that the possibility of tampering will be minimized. If the pressure setting adjustment is external, the relief valves shall be provided with means for sealing the adjustment.

(e) Shutoff valves shall not be installed between the safety relief valves and the containers or systems described in WAC 296-24-51011, 296-24-51017, 296-24-51019 and 296-24-51021, except that a shutoff valve may be used where the arrangement of this valve is such as always to afford required capacity flow through the relief valves.

Note: The above exception is made to cover such cases as a three-way valve installed under two safety relief valves, each of which has the required rate of discharge and is so installed as to allow either of the safety relief valves to be closed off, but does not allow both safety valves to be closed off at the same time. Another exception to this may be where two separate relief valves are installed with individual shutoff valves. In this case, the two shutoff valve stems shall be mechanically interconnected in a manner which will allow full required flow of one safety relief valve at all times. Still another exception is a safety relief valve manifold which allows one valve of two, three, four or more to be closed off and the remaining valve or valves will provide not less than the rate of discharge shown on the manifold nameplate.

(f) Safety relief valves shall have direct communication with the vapor space of the container.

(g) Each safety relief valve used with systems described in WAC 296-24-51011, 296-24-51017, 296-24-51019 and 296-24-51021 shall be plainly and permanently marked as follows:

(i) With the letters "AA" or the symbol "NH3."

(ii) The pressure in pounds per square inch gage (p.s.i.g.) at which the valve is set to start-to-discharge.

(iii) The rate of discharge of the valve in cubic feet per minute of air at 60°F and atmospheric pressure (14.7 p.s.i.a.).

(iv) The manufacturer's name and catalog number.

For example, a safety relief valve marked AA-250-4200 (air) would mean that this valve is suitable for use on an anhydrous ammonia container; that it is set to start-to-discharge at 250 p.s.i.g.; and that its rate of discharge (see subsection (8)(a) through (c) of this section) is four thousand two hundred cubic feet per minute of air.

(h) The flow capacity of the safety relief valve shall not be restricted by any connection to it on either the upstream or downstream side.

(i) The manufacturer or supplier of a safety relief valve manifold shall publish complete data showing the flow rating through the combined assembly of the manifold with safety relief valves installed. The manifold flow rating shall be determined by testing the manifold with all but one valve discharging. If one or more openings have restrictions not present in the remaining openings, the restricted opening or openings or those having the lowest flow shall be used to establish the flow rate marked on the manifold nameplate. The marking shall be similar to that required in (g) of this subsection for individual valves.

(j) A hydrostatic relief valve shall be installed between each pair of valves in the liquid ammonia piping or hose where liquid may be trapped so as to relieve into the atmosphere at a safe location.

(k) Discharge from safety relief devices shall not terminate in or beneath any building.

(10) Safety. See CGA Pamphlet G-2, TFI Operational Safety Manual M-2 and MCA Safety Data Sheet SD-8 (see Appendix C for availability).

(a) Personnel required to handle ammonia shall be trained in safe operating practices and the proper action to take in the event of emergencies. Personnel shall be instructed to use the equipment listed in (c) of this subsection in the event of an emergency. (Rev. 1-22-76)

(b) If a leak occurs in an ammonia system, the personnel trained for and designated to act in such emergencies shall:

(i) See that persons not required to deal with an emergency are evacuated from the contaminated area.

(ii) Put on a suitable gas mask.

(iii) Wear gauntlet type plastic or rubber gloves and wear plastic or rubber suits in heavily contaminated atmospheres.

(iv) Shut off the appropriate valves.

(c) All storage systems shall have on hand, as a minimum, the following equipment for emergency and rescue purposes:

*(i) One full face gas mask with anhydrous ammonia refill canisters.

**(ii) One pair of protective gloves.

**(iii) One pair of protective boots.

**(iv) One protective slicker and/or protective pants and jacket.

(v) Easily accessible shower and/or at least fifty gallons of clean water in an open top container.

(vi) Tight fitting vented goggles or one full face shield.

* An ammonia canister is effective for short periods of time in light concentrations of ammonia vapor, generally fifteen minutes in concentrations of three percent and will not protect breathing in heavier concentrations. If ammonia vapors are detected when mask is applied the concentration is too high for safety. The life of a canister in service is controlled by the percentage of vapors to which it is exposed. Canisters must not be opened until ready for use and should be discarded after use. Unopened canisters may be guaranteed for as long as three years. All should be dated when received because of this limited life. In addition to this protection, an independently supplied air mask of the type used by fire departments may be used for severe emergencies.

** Gloves, boots, slickers, jackets and pants shall be made of rubber or other material impervious to ammonia.

(d) Where several persons are usually present, additional safety equipment may be desirable.

(e) Each tank motor vehicle transporting anhydrous ammonia, except farm applicator vehicles, shall carry a container of at least five gallons of water and shall be equipped with a full face gas mask, a pair of tight-fitting goggles or one full face shield. The driver shall be instructed in their use and the proper action to take to provide for his/her safety.

(f) If a leak occurs in transportation equipment and it is not practical to stop the leak, the driver should move the vehicle to an isolated location away from populated communities or heavily traveled highways.

(g) If liquid ammonia contacts the skin or eyes, the affected area should be promptly and thoroughly flushed with water. Do not use neutralizing solutions or ointments on affected areas. A physician shall treat all cases of eye exposure to liquid ammonia.

(11) Filling densities. (See WAC 296-24-51005(9).)

(a) The filling densities for nonrefrigerated containers shall not exceed the following:

	Above ground	Under ground
(i) Uninsulated	56%*	58%
(ii) Insulated	57%	

(iii) DOT containers shall be filled in accordance with DOT regulations.

*This corresponds to 82% by volume at -28°F, 85% by volume at 5°F, 87.5% by volume at 30°F, and 90.6% by volume at 60°F.

(b) The filling density for refrigerated storage tanks temperature corresponding to the vapor pressure at the start-to-discharge pressure setting of the safety relief valve.

(c) If containers are to be filled according to liquid level by any gaging method other than a fixed length dip tube gage, each container should have a thermometer well so that the internal liquid temperature can be easily determined and the amount of liquid and vapor in the container corrected to a 60°F basis.

(12) Transfer of liquids.

(a) Anhydrous ammonia shall always be at a temperature suitable for the material of construction and design of the receiving containers. Ordinary steels are not suitable for refrigerated ammonia. See Appendix R of API Standard 620 "Recommended Rules for Design and Construction of Large Welded Low-Pressure Storage Tanks" for materials for low temperature service.

(b) At least one attendant shall supervise the transfer of liquids from the time the connections are first made until they are finally disconnected.

(c) Flammable gases or gases which will react with ammonia (such as air) shall not be used to unload tank cars or transport trucks.

(d) Containers shall be charged or used only upon authorization of the owner.

(e) Containers shall be gaged and charged only in the open atmosphere or in buildings approved for that purpose.

(f) Pumps used for transferring ammonia shall be recommended and labeled for ammonia service by the manufacturer.

(i) Pumps shall be designed for at least 250 p.s.i.g. working pressure.

(ii) Positive displacement pumps shall have installed, off the discharge port, a constant differential relief valve dis-

charging into the suction port of the pump through a line of sufficient size to carry the full capacity of the pump at relief valve setting, which setting and installation shall be according to pump manufacturer's recommendations.

(iii) On the discharge side of the pump, before the relief valve line, there shall be installed a pressure gage graduated from 0 to 400 p.s.i.g.

(iv) Plant piping shall contain shutoff valves located as close as practical to pump connections.

(g) Compressors used for transferring or refrigerating ammonia shall be recommended and labeled for ammonia service by the manufacturer.

(i) Compressors, except those used for refrigeration, shall be designed for at least 250 p.s.i.g. working pressure. Crank cases of compressors not designed to withstand system pressure shall be protected with a suitable safety relief valve.

(ii) Plant piping shall contain shutoff valves located as close as practical to compressor connections.

(iii) A safety relief valve large enough to discharge the full capacity of the compressor shall be connected to the discharge before any shutoff valve.

(iv) Compressors shall have pressure gages at suction and discharge graduated to at least one and one-half times the maximum pressure that can be developed.

(v) Adequate means, such as drainable liquid trap, may be provided on the compressor suction to minimize the entry of liquid into the compressor.

(vi) Where necessary to prevent contamination, an oil separator shall be provided on the discharge side of the compressor.

(h) Loading and unloading systems shall be protected by suitable devices to prevent emptying of the storage container or the container being loaded or unloaded in the event of severance of the hose. Backflow check valves or properly sized excess flow valves shall be installed where necessary to provide such protection. In the event that such valves are not practical, remotely operated shutoff valves may be installed.

(i) Meters used for the measurement of liquid anhydrous ammonia shall be recommended and labeled for ammonia service by the manufacturer.

(i) Liquid meters shall be designed for a minimum working pressure of 250 p.s.i.g.

(ii) The metering system shall incorporate devices that will prevent the inadvertent measurement of vapor.

(13) Tank car unloading points and operations.

(a) Provisions for unloading tank cars shall conform to the regulations of the department of transportation.

(b) Unloading operations shall be performed by reliable persons properly instructed and made responsible for careful compliance with all applicable procedures.

(c) Caution signs shall be so placed on the track or car as to give necessary warning to persons approaching car from open end or ends of siding and shall be left up until after car is unloaded and disconnected from discharge connections. Signs shall be of metal or other suitable material, at least twelve by fifteen inches in size and bear the words "STOP—Tank car connected" or "STOP—Men at work" the word "STOP," being in letters at least four inches high and the other words in letters at least two inches high. The letters shall be white on a blue background.

(d) The track of a tank car siding shall be substantially level.

(e) Brakes shall be set and wheels blocked on all cars being unloaded.

(f) Tank cars of anhydrous ammonia shall be unloaded only at approved locations meeting the requirements of subsections (9)(c) and (12)(h) of this section.

(14) Liquid level gaging device.

(a) Each container except those filled by weight shall be equipped with an approved liquid level gaging device.

(b) All gaging devices shall be arranged so that the maximum liquid level to which the container is filled is readily determined. (See subsection (4)(b)(vii) of this section.)

(c) Gaging devices that require bleeding of the product to the atmosphere such as the rotary tube, fixed tube, and slip tube devices, shall be designed so that the maximum opening of the bleed valve is not larger than No. 54 drill size unless provided with an excess flow valve. (This requirement does not apply to farm vehicles used for the application of ammonia as covered in WAC 296-24-51021.)

(d) Gaging devices shall have a design pressure equal to or greater than the design pressure of the container on which they are installed.

(e) Fixed liquid level gages shall be so designed that the maximum volume of the container filled by liquid shall not exceed eighty-five percent of its water capacity. The coupling into which the fixed liquid level gage is threaded must be placed at the eighty-five percent level of the container. If located elsewhere, the dip tube of this gage must be installed in such a manner that it cannot be readily removed.

Note: This does not apply to refrigerated storage.

(f) Gage glasses of the columnar type shall be restricted to stationary storage installation. They shall be equipped with shutoff valves having metallic handwheels, with excess-flow valves, and with extra heavy glass adequately protected with a metal housing applied by the gage manufacturer. They shall be shielded against the direct rays of the sun.

(15) Painting of containers. Aboveground uninsulated containers should have a reflective surface maintained in good condition. White is recommended for painted surfaces, but other light reflecting colors are acceptable.

(16) Electrical equipment and wiring.

(a) Electrical equipment and wiring for use in ammonia installations shall be general purpose or weather resistant as appropriate.

(b) Where concentrations of ammonia in air in excess of sixteen percent by volume are likely to be encountered, electrical equipment and wiring shall be of a type specified by and be installed according to chapter 296-24 WAC Part L, for Class I, Group D locations.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-51009, filed 11/22/91, effective 12/24/91; 88-23-054 (Order 88-25), § 296-24-51009, filed 11/14/88. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-51009, filed 11/13/80; Order 76-6, § 296-24-51009, filed 3/1/76; Order 74-27, § 296-24-51009, filed 5/7/74; Order 73-5, § 296-24-51009, filed 5/9/73 and Order 73-4, § 296-24-51009, filed 5/7/73.]

WAC 296-24-51011 Systems utilizing stationary, pier-mounted or skid-mounted aboveground or under-

ground, nonrefrigerated storage. This section applies to stationary, pier-mounted, skid-mounted, aboveground or underground, nonrefrigerated storage installations utilizing containers other than those constructed in accordance with department of transportation specifications. All basic rules of WAC 296-24-51009 apply to this section unless otherwise noted.

(1) Design pressure and construction of containers. The minimum design pressure for nonrefrigerated aboveground containers shall be 250 psig. (See WAC 296-24-51009 (2)(a)(i).)

Note: U-68 and U-69 ASME Code containers with a design pressure of 200 psig are acceptable if recertified to 250 psig and equipped with safety relief valves set at 250 psig as permitted in WAC 296-24-51009 (9)(b).

(2) Container valves and accessories, filling and discharging connections.

(a) Each filling connection shall be provided with combination back-pressure check valve and excess flow valve; one double or two single back-pressure check valves; or a positive shutoff valve in conjunction with either an internal back-pressure check valve or an internal excess flow valve.

(b) All vapor and liquid connections, except safety relief valves and those specifically exempt in WAC 296-24-51009 (6)(d) and (e) shall be equipped with approved excess flow valves; or in lieu thereof, may be fitted with approved quick-closing internal valves which, except during operating periods, shall remain closed.

(c) Each storage container shall be provided with a pressure gage graduated from 0 to 400 psig. Gages shall be designated for use in ammonia service.

(d) All containers shall be equipped with an approved vapor return valve.

(e) All containers shall be equipped with a fixed maximum liquid level gage.

(3) Safety relief devices.

(a) Every container shall be provided with one or more safety relief valves of spring-loaded or equivalent type and shall comply with the following:

(i) The discharge from safety relief valves shall be directed away from the container upward and unobstructed to the open air. Vent pipes shall not be restrictive or smaller in size than the safety relief outlet connection. All safety relief valve discharges shall have suitable rain caps that will allow free discharge of the vapor and prevent the entrance of water. Suitable provision shall be made for draining condensate which may accumulate.

(ii) If desired, vent pipes from two or more safety relief devices located on the same unit, or similar lines from two or more different units, may be run into a common header, provided the cross-sectional area of such header is at least equal to the sum of the cross-sectional areas of the individual vent pipes.

(b) The rate of discharge of spring-loaded safety relief valves installed on underground containers may be reduced to a minimum of 30 percent of the rate of discharge specified in Appendix A. Containers so protected shall not be uncovered after installation until the liquid ammonia has been removed. Containers which may contain liquid ammonia before being installed underground and before being completely covered with earth are to be considered aboveground containers when determining the rate of discharge requirements of the safety relief valves.

(c) On underground installations where there is a probability of the manhole or housing becoming flooded, the discharge from vent lines shall be located above the high water level. All manholes or housings shall be provided with ventilated louvres or their equivalent, the area of such openings equaling or exceeding combined discharge areas of safety relief valves and vent lines which discharge their content into the manhole housing.

(4) Installation of storage containers.

(a) Containers installed aboveground shall be provided with substantial reinforced concrete footings and foundations or structural steel supports mounted on reinforced concrete foundations. In either case, the reinforced concrete foundations or footings shall extend below the established frost line and shall be of sufficient width and thickness to support the total weight of the containers and contents adequately. The foundation shall maintain the lowest point of the tank at not less than 18 inches above the ground. Floating type foundations shall also be acceptable providing the foundations are designed to adequately support the tank, contents and pumping equipment. (See WAC 296-24-51009(7).)

(b) Horizontal aboveground containers shall be mounted on foundations in such a manner as to permit expansion and contraction. Every container shall be supported so as to prevent the concentration of excessive loads on the supporting portion of the shell. The bearing afforded by the saddles shall extend over at least one third of the circumference of the shell. Suitable means for preventing corrosion shall be provided on that portion of the container in contact with the foundations or saddles.

(c) Containers buried underground shall be placed so that the top of the container is at least one foot below the surface of the ground. Should ground conditions make compliance with these requirements impracticable, precautions shall be taken to prevent physical damage to the container. It is not necessary to cover the portion of the container to which a manhole and other connections are affixed when necessary to prevent floating, containers shall be securely anchored or weighted.

(d) Underground containers shall be set on firm foundations (firm earth may be used) and surrounded with soft earth or sand well tamped in place. As a further means of resisting corrosion, the container, prior to being placed underground, shall be given a protective coating satisfactory to the authority having jurisdiction. Such protective coating shall be equivalent to hot dip galvanizing, or to two preliminary coatings of red lead followed by a heavy coating of coal tar or asphalt. The container thus coated shall be lowered into place in such a manner as to prevent abrasion or other damage to the coating.

(e) Distance between aboveground and underground containers of over 1,200 gallons capacity shall be at least five feet.

(f) Secure anchorage or adequate pier height shall be provided against container flotation wherever sufficiently high flood water might occur.

(5) Reinstallation of containers.

(a) Containers once installed underground shall not later be reinstalled aboveground or underground, unless they successfully withstand hydrostatic pressure retests at the pressure specified for the original hydrostatic test as required by the code under which the tank was constructed and show no evidence of serious corrosion.

(b) Where containers are reinstalled underground, the corrosion resistant coating shall be put in good condition; see WAC 296-24-51011 (4)(d). Where containers are reinstalled aboveground, safety relief devices or gaging devices shall comply with WAC 296-24-51009(9) and 296-24-51011(3) respectively for aboveground containers.

(6) Marking of containers. Each container or group of containers shall be marked on at least two sides with the words "anhydrous ammonia" or "caution—ammonia" in sharply contrasting colors with letters not less than four inches high.

(7) Protection of container appurtenances.

(a) Valves and other appurtenances shall be protected against physical damage. Main container shut-off valves shall be kept closed and locked when the installation is unattended. If the facility is protected against tampering by fencing or other suitable means, valve locks are not required.

(b) All connections to underground containers should be located within a substantial dome, housing or manhole fitted with a substantial removable cover. Appurtenances shall also be protected during the transit of containers intended for installation underground.

(c) Storage containers need not be grounded.

(8) Identification. A sign shall be displayed in a conspicuous place stating the name, address, and phone number of the nearest representative, agent, or owner of the storage system.

[Order 76-6, § 296-24-51011, filed 3/1/76; Order 73-5, § 296-24-51011, filed 5/9/73 and Order 73-4, § 296-24-51011, filed 5/7/73.]

WAC 296-24-51013 Refrigerated storage. This section applies specifically to systems utilizing tanks for the storage of anhydrous ammonia under refrigerated conditions. All basic rules of WAC 296-24-51009 apply to this section unless inconsistent with the requirements of this section.

(1) Design of tanks.

(a) Tanks may be designed for any storage pressure desired as determined by economical design of the refrigerated system.

(b) The design temperature shall be the minimum temperature to which the container will be refrigerated and shall be so designated.

(c) Containers with a design pressure exceeding 15 p.s.i.g. shall be constructed in accordance with WAC 296-24-51009(2) and the material shall be selected from those listed in API Standards 620, 4th edition 1970, Recommended Rules for Design and Construction of Large, Welded Low-Pressure Storage Tanks, Tables 2.02, R.2.1, R.2.2, R.2.3 or R.2.4.

(d) Tanks with a design pressure of 15 p.s.i.g. and less shall be constructed in accordance with the general requirements of API Standard 620, 4th edition, 1970, including Appendix R.

(e) When austenitic steels or nonferrous materials are used, the ASME Code shall be used as a guide in selection of materials for use at the design temperature.

(f) The filling density for refrigerated storage containers shall be such that the container will not be liquid full at a liquid temperature corresponding to the vapor pressure at the start-to-discharge pressure setting of the safety-relief valve. (New 1-22-76)

(2) Installation of storage tanks.

(a) Tanks shall be supported on suitable noncombustible foundations designed to accommodate the type of tank being used.

(b) Adequate protection against flotation or other water damage shall be provided wherever high flood water might occur.

(c) Tanks for product storage at less than 32°F shall be supported in such a way, or heat shall be supplied, to prevent the effects of freezing and consequent frost heaving.

(d) The area surrounding a refrigerated tank or group of tanks shall be provided with drainage, or shall be diked to prevent accidental discharge of liquid from spreading to uncontrolled areas.

(e) When drainage is employed, a slope of not less than one percent shall be provided. The drainage system shall terminate in an impounding basin having a capacity as large as the largest tank served.

(f) Provision shall be made for drainage of rain water from the diked or impounding area. Such drainage shall not permit the release of ammonia.

(g) When a dike surrounding the tank is employed, the capacity of the diked enclosure shall be as large as the largest tank served.

(h) The walls of a diked enclosure or the wall of an impounding basin used in a drainage system shall be of earth, steel or concrete designed to be liquid tight and to withstand the hydrostatic pressure and the temperature. Earth walls shall have a flat top at least 2 feet wide. The slope shall be stable and consistent with the angle of repose of the earth used.

(i) The ground in an impounding basin or within a diked enclosure, should be graded so that small spills, or the early part of a large spill, will accumulate at one side or corner contacting a relatively small area of ground and exposing a relatively small surface area for heat gain. Shallow channels in the ground surface or low curbs of earth can help guide the liquid to these low areas without contacting a large ground area.

(3) Marking refrigerated containers.

Each refrigerated container shall be marked with a nameplate on the outer covering in an accessible place as specified in the following:

(a) With the name and address of the builder and the date of fabrication.

(b) With the maximum volume or weight of the product whichever is most meaningful to user.

(c) With the design pressure.

(d) With the minimum temperature in degrees Fahrenheit for which the container was designed.

(e) With the maximum allowable water level to which the container may be filled for the test purposes.

(f) With the density of the product in pounds per cubic foot for which the container was designed.

(g) With the maximum level to which the container may be filled with liquid anhydrous ammonia.

(4) Tank valves, fill pipes and discharge pipes.

(a) Shut-off valves shall be:

(i) Provided for all connections except those with a No. 54 drill size restriction, plugs, safety valves, thermometer wells, and

(ii) Located as close to the tank as practicable.

(b) When operating conditions make it advisable, a check valve shall be installed on the fill connection and a remotely operated shut-off valve on other connections located below the maximum liquid level.

(5) Safety relief devices.

(a) Safety relief valves shall be set to start-to-discharge at a pressure not in excess of the design pressure of the tank and shall have a total relieving capacity sufficient to prevent a maximum pressure in a tank of more than one hundred twenty percent of the design pressure.

(b) The total relieving capacity shall be the larger requirement of (b)(i) or (ii) of this subsection.

(i) Possible refrigeration system upset such as (A) cooling water failure, (B) power failure, (C) instrument air or instrument failure, (D) mechanical failure of any equipment, (E) excessive pumping rates, (F) changing atmospheric conditions.

(ii) Either one of the following formulas for fire exposure, (A) for valve manufacturers who use weight of vapors to be relieved as basis for classifying valves:

$$W = \frac{34{,}500\ F\ A^{0.82}}{L}$$

or (B) for valve manufacturers that classify valves on the basis of air flow:

$$Q_a = \frac{633{,}000\ F\ A^{0.82}}{L\ C}\sqrt{\frac{Z\ T}{M}}$$

Where

- W = weight of vapors to be relieved in pounds/hour at relieving conditions;
- Q_a = air flow in cubic feet per minute at standard conditions (60F and 14.7 psi);
- F = fireproofing credit. Use F = 1.0 except when an approved fireproofing material of recommended thickness is used, then use F = 0.2.
- A = total surface area in square feet up to 25 feet above grade or to the equator of a sphere, whichever is greater;
- Z = compressibility factor of ammonia at relieving conditions (if not known, use Z = 1.0);
- T = temperature in degrees R (460 + temperature in degrees F of gas at relieving conditions);
- M = molecular weight = 17 for ammonia;
- L = latent heat of ammonia at relieving conditions;
- C = constant based on relation of specific heats. (C may be obtained from the following table.)

(If K is not known use C = 315.)

K	C	K	C	K	C
1.00	315	1.26	343	1.52	366
1.02	318	1.28	345	1.54	368
1.04	320	1.30	347	1.56	369
1.06	322	1.32	349	1.58	371
1.08	324	1.34	351	1.60	372
1.10	327	1.36	352	1.62	374
1.12	329	1.38	354	1.64	376
1.14	331	1.40	356	1.66	377
1.16	333	1.42	358	1.68	379
1.18	335	1.44	359	1.70	380
1.20	337	1.46	361	2.00	400
1.22	339	1.48	363	2.20	412
1.24	341	1.50	364		

Where $K = C_p/C_v$ at atmospheric conditions and

C_p = specific heat of vapor at constant pressure.

C_v = specific heat of vapor at constant volume.

(c) Shut-off valves of adequate flow capacity may be provided and used to facilitate inspection and repair of safety relief valves. When a shut-off valve is provided it shall be so arranged that it can be locked or sealed open, and it shall not be closed except by an authorized person who shall remain stationed there while the valve remains closed, and who shall again lock or seal the valve open when leaving the station.

(d) Safety relief devices shall comply with the following:

(i) If stacks are used they shall be suitably designed to prevent obstruction by rain, snow, ice or condensate. The outlet size shall not be smaller than the nominal size of the safety relief valve outlet connection.

(ii) Discharge lines may be used if desired. Multiple safety relief valves on the same storage unit may be run into a common discharge header. The discharge line and header shall be designed to accommodate the maximum flow and a back pressure not exceeding ten percent of the design pressure of the storage container. This back pressure shall be included in the one hundred twenty percent total maximum pressure given in (a) of this subsection. No other container or system shall exhaust into this discharge line or header. The vent lines shall be installed to prevent accumulation of liquid in the lines.

(e) Atmospheric storage shall be provided with vacuum breakers. Ammonia gas may be used to provide a pad.

(6) Protection of container appurtenances. Refrigerated storage containers shall comply with the provisions of WAC 296-24-51011(7).

(7) Reinstallation of containers. Containers of such size as to require field fabrication shall, when moved and reinstalled, be reconstructed and reinspected in complete accordance with the code under which they were constructed. The containers shall be subjected to a pressure retest, and if rerating is necessary, it shall be done in accordance with the applicable code pressures.

(8) Damage from vehicles. Precaution shall be taken to avoid any damage by trucks, tractors, or other vehicles.

(9) Refrigeration load and equipment.

(a) The total refrigeration load shall be computed as the sum of the following:

(i) Load imposed by heat flow into the container caused by the temperature differential between the ambient temperature and the design storage temperature.

(ii) Load imposed by heat flow into the tank caused by maximum sun radiation.

(iii) Maximum load imposed by filling the tank with ammonia warmer than the design storage temperature.

(b) More than one storage tank may be handled by the same refrigeration system.

(c) Compressors. (See also WAC 296-24-51009 (12)(g).)

(i) A minimum of two compressors shall be provided, either of which is of sufficient size to handle the loads listed in (a)(i) and (ii) of this subsection. Where more than two compressors are provided, minimum standby equipment equal to the largest normally operating equipment shall be installed. Compressors required for (a)(iii) of this subsection may be used as standby equipment for compressors required in (a)(i) and (ii) of this subsection.

(ii) Compressors shall be sized to operate with a suction pressure at least ten percent below the minimum setting of the safety relief valve(s) on the storage tank and shall withstand a suction pressure at least equal to one hundred twenty percent of the design pressure of the tank. Discharge pressure will be governed by condensing conditions.

(d) Compressor drives.

(i) Each compressor shall have its individual driving unit.

(ii) Any standard drive consistent with good design may be used.

(iii) An emergency source of power of sufficient capacity to handle the loads listed in (a)(i) and (ii) of this subsection shall be provided, unless facilities are provided to safely dispose of vented vapors while the refrigeration system is not operating.

(e) Automatic control equipment.

(i) The refrigeration system shall be arranged with suitable controls to govern the compressor operation in accordance with the load as evidenced by the pressure in the container(s).

(ii) An emergency alarm system shall be installed to function in the event the pressure in the container(s) rises to the maximum or falls to the minimum allowable operating pressure.

(iii) An emergency alarm and shut-off shall be located in the condenser system to respond to excess discharge pressure caused by failure of the cooling medium.

(iv) All automatic controls shall be installed in a manner to preclude operation of alternate compressors unless the controls will function with the alternate compressors.

(f) Separators.

(i) An entrainment separator of suitable size and design pressure shall be installed in the compressor suction line. The separator shall be equipped with a drain and gaging device.

(ii) An oil separator of suitable size shall be installed in the compressor discharge line. It shall be designed for at least 250 p.s.i.g. and shall be equipped with a gaging device and drain valve.

(g) Condensers. The condenser system may be cooled by air or water or both. The condenser shall be designed for at least 250 p.s.i.g. Provision shall be made for purging noncondensibles either manually or automatically.

(h) Receiver and liquid drain. A receiver shall be provided which is equipped with an automatic float valve to discharge the liquid ammonia to storage or with a high pressure liquid drain trap of suitable capacity. The receiver shall be designed for at least 250 p.s.i.g. operating pressure and be equipped with the necessary connections, safety relief valves and gaging device.

(i) Insulation. Refrigerated containers and pipe lines which are insulated shall be covered with a material of suitable quality and thickness for the temperatures encountered. Insulation shall be suitably supported and protected against the weather. Weatherproofing shall be of a type which will not support flame propagation.

(10) Safety equipment. All refrigerated storage plants shall have on hand the minimum safety equipment required under WAC 296-24-51009 (10)(c).

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-51013, filed 11/14/88. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-51013, filed 11/13/80; Order 76-6, § 296-24-51013, filed 3/1/76; Order 73-5, § 296-24-51013, filed 5/9/73 and Order 73-4, § 296-24-51013, filed 5/7/73.]

WAC 296-24-51015 Systems utilizing portable DOT containers. This section applies specifically to systems utilizing cylinders, portable tanks (DOT-51), or "ton containers" (DOT-106A, DOT-110A), constructed in accordance with department of transportation specifications. All basic rules of WAC 296-24-51009 apply to this section, unless otherwise noted.

(1) Containers.

(a) Containers shall comply with department of transportation specifications and shall be maintained, filled, packaged, marked, labeled and shipped to comply with current DOT regulations and American National Standard Method of Marking Portable Compressed Gas Containers to Identify the Material Contained, Z48.1. (See Appendix C for availability.)

(b) Containers shall be stored in an area free from ignitable debris and in such manner as to prevent external corrosion. (Storage may be indoors or outdoors.)

(c) Containers shall not be buried below ground.

(d) Containers shall be set upon firm foundations or otherwise firmly secured. The possible effect of settling on the outlet piping shall be guarded against by a flexible connection or special fitting.

(e) Containers shall be protected from heat sources such as radiant flame and steam pipes. Do not apply heat directly to containers to raise the pressure.

(f) Containers shall be stored in such manner as to protect them from moving vehicles or external damage.

(g) Any container which is designed to have a valve protection cap shall have the cap securely in place when the container is not in service.

(2) Container valves and regulating equipment.

(a) Container valves and pressure regulating equipment shall be protected against tampering when installed for use.

(b) Container valves shall be protected while in transit, in storage, and while being moved into final utilizations, as follows:

(i) By setting them into a recess of the container, or

(ii) By ventilated cap or collar, fastened to the container, capable of withstanding a blow from any direction equivalent to that of a 30-lb. weight dropped four feet. Construction must be such that a blow will not be transmitted to the valves or other connections.

(c) When containers are not connected for service, the outlet valves shall be kept tightly closed even though containers are considered empty.

(3) Safety relief devices. Containers shall be provided with safety relief devices as required by department of transportation regulations.

[Order 73-5, § 296-24-51015, filed 5/9/73 and Order 73-4, § 296-24-51015, filed 5/7/73.]

WAC 296-24-51017 Systems mounted on trucks, semi-trailers, and trailers for transportation of ammonia. This section applies specifically to systems mounted on trucks, semi-trailers and trailers (other than those covered under WAC 296-24-51019 and 296-24-51021) used for the transportation of ammonia. All basic rules of WAC 296-24-51009 apply to this section unless otherwise noted. Systems for trucks and trailers for transportation of anhydrous ammonia, in addition to complying with the requirements of these standards, shall also comply where required, with the requirements of the department of transportation and those of any other regulatory body which may apply.

(1) Design pressure of containers.

(a) Containers used in intrastate commerce shall be constructed in accordance with WAC 296-24-51009(2) with a minimum design pressure of 250 psig. Containers used in interstate commerce shall meet DOT regulations.

(b) The shell or head thickness of any container shall not be less than 3/16 inch.

(c) All container openings, except safety relief valves, liquid level gaging devices and pressure gages, shall be labeled to designate whether they communicate with liquid or vapor space. Labels may be on valves.

(d) Baffles are not required for cargo tanks.

(2) Mounting containers on truck.

(a) The means of attachment of any container to the cradle, frame or chassis of a vehicle shall be designed on a basis of two "g" loading in either direction, using a safety factor of not less than 4, based on the ultimate strength of the material used. For purposes of this requirement, two "g" of load support is equivalent to three times the static weight of the articles supported; two "g" of loading and bending, acceleration, and torsion is equivalent to twice the static weight support applied horizontally at the road surface.

(b) "Hold-down" devices, when used, shall anchor the container to the cradle, frame or chassis in a suitable and safe manner that will not introduce undue concentration of stresses. These devices shall incorporate positive means for drawing the container down tight, and suitable stops or anchors shall be provided to prevent relative movement between container and framing due to stopping, starting or changes in direction.

(c) Vehicles designed and constructed so that the cargo tanks constitute in whole or in part the stress member used in lieu of the frame shall be supported by external cradles suspending at least 120° of the shell circumference. The design calculation shall include beam stress, shear stress, torsion stress, bending moment and acceleration stress, in addition to those covered by the code under which the cargo tank was designed.

(d) If a liquid withdrawal line is installed in the bottom of a container, the connections thereto, including hose, shall not be lower than the lowest horizontal edge of the trailer axle.

(e) Provisions shall be made to secure both ends of the hose while in transit.

(f) When the cradle and the container are not welded together, suitable material shall be used between them to eliminate metal-to-metal friction.

(3) Container appurtenances.

(a) Nonrecessed container fittings and appurtenances shall be protected against physical damage by either: (i) A protected location, (ii) the vehicle frame or bumper, or (iii) a protective housing. The protective housing, if used, shall comply with the requirements under which the containers are fabricated with respect to design and construction, and shall be designed to withstand static loadings in any direction equal to twice the weight of the container and attachments when filled with the lading using a safety factor of not less than 4, based on the ultimate strength of the material to be used. The protective housing if used shall be protected with a weather cover, if necessary, to insure proper operation of valves and safety relief devices.

(b) All connections to containers, except filling connections (see WAC 296-24-51017 (3)(c)), safety relief devices, and liquid level and pressure gage connections, shall be provided with suitable automatic excess flow valves, or in lieu thereof, may be fitted with quick-closing internal valves, which shall remain closed except during delivery operations. The control mechanism for such valves may be provided with a secondary control remote from the delivery connections and such control mechanism shall be provided with a fusible section (melting point 208F to 220F) which will permit the internal valve to close automatically in case of fire.

(c) Filling connections shall be provided with automatic back-pressure check valves, excess-flow check valves, or quick-closing internal valves, to prevent back-flow in case the filling connection is broken. Where the filling and discharge connect to a common opening in the container shell and that opening is fitted with a quick-closing internal valve as specified in WAC 296-24-51017 (3)(b), the automatic valve shall not be required.

(d) All containers shall be equipped for spray loading (filling in the vapor space) or with an approved vapor return valve of adequate capacity.

(e) All containers shall be equipped with a fixed maximum liquid level gage.

(f) All containers shall be equipped with a pressure-indicating gage having a dial graduated from 0-400 psig.

(4) Piping and fittings.

(a) All piping, tubing and fittings shall be securely mounted and protected against physical damage.

(b) Piping used on nonrefrigerated systems shall be at least ASTM A-53 Grade B electric resistance welded and electric flash welded pipe or equal. Such pipe shall be at least Schedule 40 when joints are welded, or welded and flanged. Such pipe shall be at least Schedule 80 when joints are threaded. Brass, copper, or galvanized steel pipe or tubing shall not be used.

(c) The truck unloading line shall be provided with an excess flow valve at the hose connection unless an approved quick closing internal valve is provided in the container unloading connection. (See WAC 296-24-51017 (3)(b).)

(5) Safety relief devices. The discharge from container safety relief valves shall be vented away from the container upward and unobstructed to the open air in such a manner as to prevent any impingement of escaping gas upon the container; loose fitting rain caps shall be used. Size of discharge lines from safety relief valves shall not be smaller than the nominal size of the safety relief valve outlet connection. Suitable provision shall be made for draining condensate which may accumulate in the discharge pipe.

(6) Marking of container. Every container, whether loaded or empty, shall be conspicuously and legibly marked on each side and rear thereof on a background of sharply contrasting color with the words "COMPRESSED GAS" in letters at least four inches high; or with the words "ANHYDROUS AMMONIA" in letters at least four inches high; or in compliance with department of transportation regulations.

(7) Transfer of liquids.

(a) The content of tank motor vehicle containers shall be determined by weight, by suitable liquid level gaging devices, meters, or other approved methods.

Note: If the content of a container is to be determined by liquid level measurement, the container shall have a thermometer well so that the internal liquid temperature can be easily determined. This volume when converted to weight shall not exceed the filling density specified by the department of transportation regulations.

(b) Pumps or compressors shall be designed and installed in accordance with WAC 296-24-51009(12) and protected against physical damage when mounted upon ammonia tank trucks and trailers.

(c) Tank motor vehicles of greater than 3500 water gallons capacity shall be unloaded only at approved locations meeting the requirements of WAC 296-24-51009 (10)(c) and (12)(h).

(8) Trailers and semi-trailers.

(a) Trailers shall be firmly and securely attached to the vehicle drawing them by means of suitable drawbars, supplemented by suitable safety chain (or chains) or safety cables.

(b) Every trailer and semi-trailer shall be equipped with an emergency braking system to be activated in the event of hitch failure.

(c) Trailers shall be of a type of construction which will prevent the towed vehicle from whipping or swerving dangerously from side to side and which will cause it to follow substantially in the path of the towing vehicle.

(d) Where a fifth wheel is employed on a semi-trailer, it shall be ruggedly designed, securely fastened to both units, and equipped with a positive locking mechanism which will prevent separation of the two units except by manual release.

(e) Every trailer or semi-trailer shall be provided with side lights and a tail light.

(9) Electrical equipment and lighting. Tank trucks, tank trailers, and tank semi-trailers, may not be equipped with any artificial light other than electric light. Electric lighting circuits shall have suitable overcurrent protection (fuses or automatic circuit breakers). The wiring shall have sufficient carrying capacity and mechanical strength, and shall be suitably secured, insulated and protected against physical damage.

(10) Protection against collision. Each tank motor vehicle shall be provided with properly attached bumpers or chassis extensions arranged to protect the tank, piping, valves and fittings from physical damage in case of collision.

(11) Chock blocks. At least two chock blocks shall be provided. These blocks shall be placed to prevent rolling of the vehicle whenever it is parked during loading and unloading operations.

(12) Portable tanks (including skid tanks). When portable tanks are used in lieu of cargo tanks and are permanently mounted on tank motor vehicles for the transportation of ammonia, they shall comply with the requirements of WAC 296-24-51017. Where portable tanks, including those built to DOT Specification 51, 106A or 110A, are used for farm storage they shall comply with WAC 296-24-51011. When portable tanks are used as shipping containers in interstate commerce they shall comply with WAC 296-24-51015.

(13) Safety equipment.

(a) All tank trucks, trailers, and semi-trailers should be equipped with the following for emergency and rescue purposes:

(i) One full face gas mask with anhydrous ammonia refill canisters.

(ii) One pair of protective gloves made of rubber or other material impervious to ammonia.

(iii) Tight-fitting goggles or one full face shield.

(iv) A container of not less than five gallons of readily available clean water.

* An ammonia canister is effective for short periods of time in light concentrations of ammonia vapor, generally 15 minutes in concentrations of 3% and will not protect breathing in heavier concentrations. If ammonia vapors are detected when mask is applied the concentration is too high for safety. The life of a canister in service is controlled by the percentage of vapors to which it is exposed. Canisters must not be opened until ready for use and should be discarded after use. Unopened canisters may be guaranteed for as long as three years. All should be dated when received because of this limited life. In addition to this protection, an independently supplied air mask of the type used by fire departments may be used for severe emergencies.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-51017, filed 11/13/80; Order 76-6, § 296-24-51017, filed 3/1/76; Order 73-5, § 296-24-51017, filed 5/9/73 and Order 73-4, § 296-24-51017, filed 5/7/73.]

WAC 296-24-51019 Systems mounted on farm wagons (implements of husbandry) for the transportation of ammonia. This section applies to containers of 3000 gallons capacity or less and pertinent equipment mounted on farm wagons (implements of husbandry) and used for the transportation of ammonia. All basic rules of WAC 296-24-51009 apply to this section unless otherwise noted.

(1) Design of containers. Containers shall be constructed in accordance with WAC 296-24-51009(2).

(2) Mounting containers.

(a) A suitable "stop" or "stops" shall be mounted on the farm wagon or on the container in such a way that the container shall not be dislodged from its mounting due to farm wagon coming to a sudden stop.

(b) A suitable "hold-down" device shall be provided which will anchor the container to the farm wagon at one or more places on each side of the container.

(c) When containers are mounted on four-wheel farm wagons, care shall be taken to insure that the weight is distributed evenly over both axles.

(d) When the cradle and the container are not welded together, suitable material shall be used between them to eliminate metal-to-metal friction.

(3) Container appurtenances.

(a) All containers shall be equipped with a fixed maximum liquid level gage.

(b) All containers with a capacity exceeding 250 gallons shall be equipped with a pressure gage having a dial graduated from 0-400 psi.

(c) The filling connection shall be fitted with combination back-pressure check valve and excess-flow valve; one double or two single back-pressure check valves; or a positive shut-off valve in conjunction with either an internal back-pressure check valve or an internal excess flow valve.

(d) All containers with a capacity exceeding 250 gallons shall be equipped for spray loading or with an approved vapor return valve.

(e) All vapor and liquid connections, except safety relief valves and those specifically exempt in WAC 296-24-51009 (6)(e), shall be equipped with approved excess flow valves or may be fitted with quick-closing internal valves which, except during operating periods, shall remain closed.

(f) Fittings shall be protected from physical damage by means of a rigid guard designed to withstand static loading in any direction equal to twice the weight of the container and lading using a safety factor of four based upon the ultimate strength of the material used. If the guard is fully enclosed, the safety relief valves shall be properly vented through the guard.

(g) If a liquid withdrawal line is installed in the bottom of a container, the connections thereto, including hose, shall not be lower than the lowest horizontal edge of the farm wagon axle.

(h) Both ends of the hose shall be made secure while in transit.

(4) Marking of container. There shall appear on each side and on the rear end of the container in letters at least four inches high, the words "**anhydrous ammonia**" or, "**caution—ammonia**" or the container shall be marked in accordance with department of transportation regulations.

(5) Farm wagons (implements of husbandry).

(a) Farm wagons (implements of husbandry) shall conform with state regulations.

(b) All farm wagons shall be securely attached to the vehicle drawing them by means of drawbars supplemented by suitable safety chains.

(c) A farm wagon shall be constructed so that it will follow substantially in the path of the towing vehicle and will prevent the towed farm wagon from whipping or swerving dangerously from side to side.

(d) All farm wagons shall have five gallons or more of readily available clean water.

[Order 73-5, § 296-24-51019, filed 5/9/73 and Order 73-4, § 296-24-51019, filed 5/7/73.]

WAC 296-24-51021 Systems mounted on farm equipment (implements of husbandry) for the application of ammonia. This section applies to systems mounted on farm equipment and used for the field application of ammonia. All basic rules of WAC 296-24-51009 apply to this section unless otherwise noted.

(1) Design of containers. The minimum design for containers shall be in accordance with WAC 296-24-51009(2).

(2) Mounting of containers. All containers shall be securely mounted.

(3) Container valves and appurtenances.

(a) Each container shall have a fixed maximum liquid-level gage.

(b) The filling connection shall be fitted with combination back-pressure check valve and excess-flow valve; one double or two single back-pressure check valves; or a positive shut-off valve in conjunction with either an internal back-pressure check valve or an internal excess-flow valve.

(c) An excess-flow valve is not required in the vapor connection, provided the controlling orifice is not in excess of seven-sixteenths of an inch in diameter and the valve is hand-operated (attached hand wheel or equivalent) shut-off valve. To assist in filling applicator tanks, it is permissible to bleed vapors to the open air, providing the preceding requirements are met.

(d) Metering devices may be connected directly to the tank withdrawal valve. A union type connection is permissible between the tank valve and metering device. Remote mounting of metering devices is permissible using hose which meets with specifications set out in Appendix B. When the applicator tank is trailed and the metering device is remotely mounted, such as on the tractor tool bar, an automatic break-a-way type, self-closing, coupling must be used.

(e) No excess-flow valve is required in the liquid withdrawal line provided the controlling orifice between the contents of the container and the outlet of the shut-off valve (see WAC 296-24-51009 (6)(b)) does not exceed 7/16 inch in diameter.

APPENDIX A

Minimum required rate of discharge in cubic feet per minute of air at 120 percent of the maximum permitted start-to-discharge pressure for safety relief valves to be used on containers other than those constructed in accordance with United States Department of Transportation cylinder specifications.

Surface Area sq. ft.	Flow Rate CFM Air
20	258
25	310
30	360
35	408

Surface Area sq. ft.	Flow Rate CFM Air
40	455
45	501
50	547
55	591
60	635
65	678
70	720
75	762
80	804
85	845
90	885
95	925
100	965
105	1,010
110	1,050
115	1,090
120	1,120
125	1,160
130	1,200
135	1,240
140	1,280
145	1,310
150	1,350
155	1,390
160	1,420
165	1,460
170	1,500
175	1,530
180	1,570
185	1,600
190	1,640
195	1,670
200	1,710
210	1,780
220	1,850
230	1,920
240	1,980
250	2,050
260	2,120
270	2,180
280	2,250
290	2,320
300	2,380
310	2,450
320	2,510
330	2,570
340	2,640
350	2,700
360	2,760
370	2,830
380	2,890
390	2,950
400	3,010
450	3,320
500	3,620
550	3,910
600	4,200
650	4,480
700	4,760
750	5,040
800	5,300
850	5,590
900	5,850
950	6,120
1,000	6,380
1,050	6,640
1,100	6,900
1,150	7,160
1,200	7,410
1,250	7,660
1,300	7,910
1,350	8,160
1,400	8,410
1,450	8,650
1,500	8,900
1,550	9,140
1,600	9,380
1,650	9,620
1,700	9,860
1,750	10,090
1,800	10,330
1,850	10,560
1,900	10,800
1,950	11,030
2,000	11,260
2,050	11,490
2,100	11,720
2,150	11,950
2,200	12,180
2,250	12,400
2,300	12,630
2,350	12,850
2,400	13,080
2,450	13,300
2,500	13,520

Surface area = total outside surface area of container in square feet. When the surface area is not stamped on the name plate or when the marking is not legible, the area can be calculated by using one of the following formulas:

(1) Cylindrical container with hemispherical heads

Area = overall length in feet times outside diameter in feet times 3.1416.

(2) Cylindrical container with other than hemispherical heads

Area = (overall length in feet plus 0.3 outside diameter in feet) times outside diameter in feet times 3.1416.

(3) Spherical container

Area = outside diameter in feet squared times 3.1416.

Flow rate — CFM air = cubic feet per minute of air required at standard conditions, 60F and atmospheric pressure (14.7 psia).

The rate of discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater that 2,500 sq. ft., the required flow rate can be calculated using the formula, flow rate CFM air = 22.11 A0.82 where A = outside surface area of the container in square feet.

APPENDIX B

TFI-RMA SPECIFICATION FOR ANHYDROUS AMMONIA HOSE TFI-RMA STANDARD NO. M-5

(1) **Scope.** This specification covers hose and hose assemblies commonly referred to as "pressure transfer hose, " used to convey anhydrous ammonia liquid or to convey anhydrous ammonia gas where the gas is in contact with liquid ammonia. This specification primarily covers hose and hose assemblies which have a minimum burst pressure of 1750 psig, a safety factor of 5, and a maximum working pressure of 350 psig. These figures should not be misconstrued to mean that they are the maximum pressures to which anhydrous ammonia hose and hose assemblies are built, since higher pressure hose and hose assemblies are available for special applications.

(2) **Sizes and tolerances.** Anhydrous ammonia hose shall be made with the following dimensions and tolerances:

RUBBER COVERED HOSE FOR USE WITH TWO-PIECE SCREW TYPE COUPLINGS

I.D.	Tolerance	O.D.	Tolerance
1/2"	± 1/32"	15/16"	± 1/32"
3/4"	± 1/32"	1 1/4"	± 1/32"
1 "	± 1/16"	1 1/2"	± 1/16"

NONRUBBER COVERED AND RUBBER COVERED HOSE FOR USE WITH FULL FLOW COUPLINGS

I.D.	Tolerance	O.D.	Tolerance	Nominal Tubing O.D.
13/32"	+.039" - .015"	49/64"	± .031"	1/2 "
1/2"	+.047" - .015"	59/64"	± .031"	5/8 "
5/8"	+.047" - .015"	1- 5/64"	± .031"	3/4 "
7/8"	+.047" - .015"	1- 15/64"	± .031"	1 "
1 1/8"	+.062" - .015"	1 1/2"	± .047"	1 1/4 "
1 3/8"	+.062" - .015"	1 3/4"	± .047"	1 1/2 "
1- 13/16"	+.062" - .015"	2 7/32"	± .047"	2 "

HOSE FOR USE WITH OTHER TYPES OF COUPLINGS*

I.D.	Tolerance
1/2"	± 1/32"
3/4"	± 1/32"
1 "	± 1/16"
1 1/4"	± 1/16"
1 1/2"	± 1/16"
2 "	± 1/16"

* The O.D. dimension and tolerance were intentionally omitted from this tabulation to provide for developments in both hose and couplings.

(3) **Construction.**

(a) Inner tube. The tube shall be uniform in quality and thickness and free from injurious defects. It shall meet the physical requirements of (4) of Appendix B. The material shall be resistant to hardening or other deterioration due to the action of ammonia.

(b) Reinforcement. The reinforcement shall consist of any material not adversely affected by permeating ammonia. The reinforcement shall be applied evenly and uniformly, and in such a way that it will meet the physical requirements of (4) of Appendix B. In constructions utilizing a ply or plies of wire reinforcement, the composition of the wire shall be a suitable corrosion resistant stainless steel.

(c) Cover. A rubber cover if used shall be uniform in quality and thickness and free from injurious defects. It shall meet the physical requirements of (4) of Appendix B. The cover shall be so compounded or constructed that it will not blister in service, and will be resistant to deterioration due to the action of ammonia. A gas tight cover shall be pricked to relieve pressure build-up between inner tube and cover. The cover shall be resistant to deterioration due to exposure to the elements.

(4) **Physical tests.**

(a) Tension test of tube and cover.

	Tube	Cover
Tensile, psi. min.	800	1200
Elongation, percent, min.	150	200

(b) Adhesion test

	Tube	Ply	Cover
Adhesion lbs./in.	10	8	10

(i) In constructions having braided wire or woven wire filler reinforcing members, only the cover adhesion requirement will apply, as it is impractical to prepare adhesion test specimens except for determining cover adhesion.

(c) Burst test. All sizes have a minimum burst of 1750 psig. (See scope.)

(d) Ammonia performance test. During the conditioning and flexing described in (7)(d) and (7)(d)(ii) of Appendix B there shall be no evidence of cover blistering or leakage. At the conclusion of the conditioning and at the conclusion of the flexing test, the burst must still meet the requirements of (4)(c) of Appendix B. There shall be no evidence of separation of the component parts when the remainder of the samples are examined.

(e) Low temperatures test. The hose shall not fail at minus 40F plus or minus 2°, when tested as described in (7)(e) of Appendix B.

(5) **Types of tests.**

(a) Acceptance inspection. This includes all the test specified, with the exception of the ammonia performance test.

(b) Qualification tests. The qualification tests are intended to establish that the hose is properly designed and constructed to give satisfactory service life. These tests shall be conducted by a recognized independent laboratory. The qualification tests shall consist of all the tests specified herein including the ammonia performance test.

(6) **Method of sampling.**

(a) Acceptance inspection. A 24-inch sample of each size and type hose, representative of the lot, shall be selected from each lot manufactured at one time, or from each 25,000 feet, whichever is smaller.

(b) Qualification test. In addition to the samples specified in (6)(a) of Appendix B, two 12-foot lengths of each size hose shall be selected for the ammonia performance test. Each new hose shall be subjected to a qualification test, and again whenever there has been a design change.

(7) **Methods of testing.**

(a) Tension test of tube and rubber cover. The tension test shall be made in accordance with ASTM D-380.

(b) Friction test. The friction test shall be made in accordance with ASTM D-380.

(c) Burst test. The burst test shall be made in accordance with ASTM D-380 using the method entitled "straight bursting test."

(d) Ammonia performance test. Two 12-foot lengths of hose, to be marked "A" and "B" shall be filled with liquid anhydrous ammonia by connecting to a tank and flushing out with ammonia to remove all the air. One end of each length shall be sealed and the other end left connected to the liquid space of a tank of anhydrous ammonia. The hose shall then be conditioned for 14 days at ambient temperature of 60 to 100F. A valve between the ammonia tank and the hose may be closed providing it is opened at least once each day to completely fill the hose with liquid anhydrous ammonia. The hose shall be examined each day for visible defects. There shall be no evidence of the cover blistering or perceptible leakage. If the hose is valved off at each end when liquid full, a hydrostatic relief valve should be provided between the block valves.

(i) Conditioned hose burst test. A 24-inch sample cut from hose marked "A" shall be subjected to a straight hydrostatic bursting test in accordance with (7)(c) of Appendix B.

(ii) Conditioned hose flexing test.

(A) The 12-foot hose length marked "B" shall be installed in flexing test machine (Fig. 1). One end of the hose is to be connected to the traveling block and the free end passed around two pulleys with diameters as shown in Table 1. A 30-pound weight shall then be attached to the free end.

(B) From the remainder of hose length marked "A", (sizes 1 inch and under only), cut a section to length indicated in Table 1. Connect one end to the vertically traveling block as shown in Fig. 1 and connect the other end to the liquid space of a tank of anhydrous ammonia. Maintain the temperature of hose and ammonia between 70F and 90F. The test on the feeder hose does not apply to sizes over 1 inch. To conduct the flex test on the larger sizes any convenient hose may be used as a feeder hose.

(C) The flexing test shall continue for 72 hours at a rate of approximately 470 cycles per hour with a 42-inch vertical movement of the traveling block. A valve between the ammonia tank and the hose may be closed providing it is opened at least once each day to pressurize the hose. The hose shall be examined each day for visible defect. There shall be no evidence of cover blistering or leakage.

(D) At the conclusion of the flexing period, cut a 24-inch sample from hose "A" and from hose "B" and subject each sample to a straight burst test in accordance with (7)(c) of Appendix B. All samples shall have a minimum burst of 1750 psig.

TABLE 1

Hose Size	Pulley Diameter	Feeder Hose Length
1/2"	14" ± 1/4"	36"
3/4"	14" ± 1/4"	36"
1 "	14" ± 1/4"	36"
1 1/4"	15" ± 1/4"	
1 1/2"	18" ± 1/4"	
2 "	24" ± 1/4"	

(E) Low temperature test. A straight piece of hose at least 24 inches long, conditioned to minus 40F plus or minus 2F for 5 hours, and bent 180° within two seconds around a mandrel 12 times the nominal inside diameter of the hose, shall not break or show cracks in the tube or cover.

(8) **Retests and rejections.** Any hose which fails in one or more tests may be resampled and retested, for which purpose two additional samples shall be selected from the hose for the test that failed to meet the requirements. Failure of either of the retested samples shall be cause for final rejection.

(9) **Hose assemblies.** The couplings must be so designed and constructed, that an assembly shall have sufficient strength that it will reach the minimum burst pressure, as required by (4)(c) of Appendix B, before the end fittings leak or come off when pressure is applied as specified in ASTM D-380 for hydrostatic tests. Fittings must be resistant to the action of anhydrous and aqueous ammonia and in no case may assemblies be supplied with copper alloy fittings.

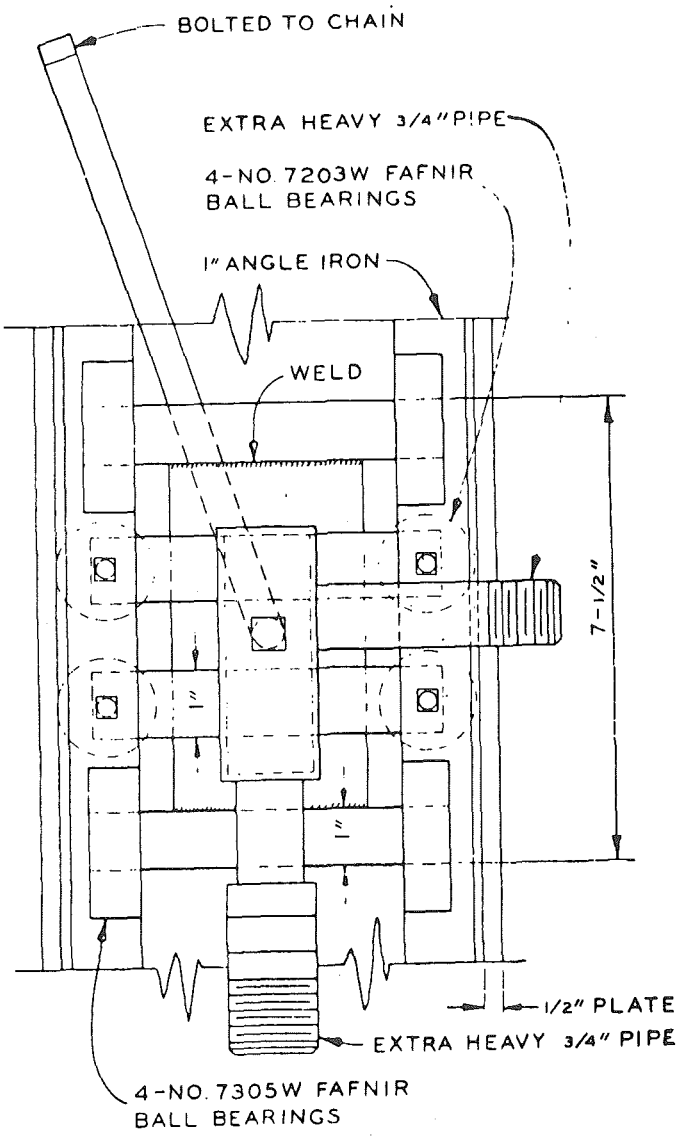
(10) **Markings.** Hose shall be clearly marked at least once every five feet with manufacturer's name or trademark, "anhydrous ammonia, " the maximum working pressure in psig, year of manufacturer, and "TFI-RMA Spec., " for all hose manufactured after January 1, 1964. As indicated in the scope, the maximum working pressure must not be less than 350 psig.

(11) **Packaging.**

(a) Packing. Unless otherwise specified, hose shall be packed in substantial commercial containers of the type, size and kind commonly used for the purpose, so constructed as to insure acceptance and safe delivery to common or other carriers, at the lowest rate, to the point of delivery specified on the order.

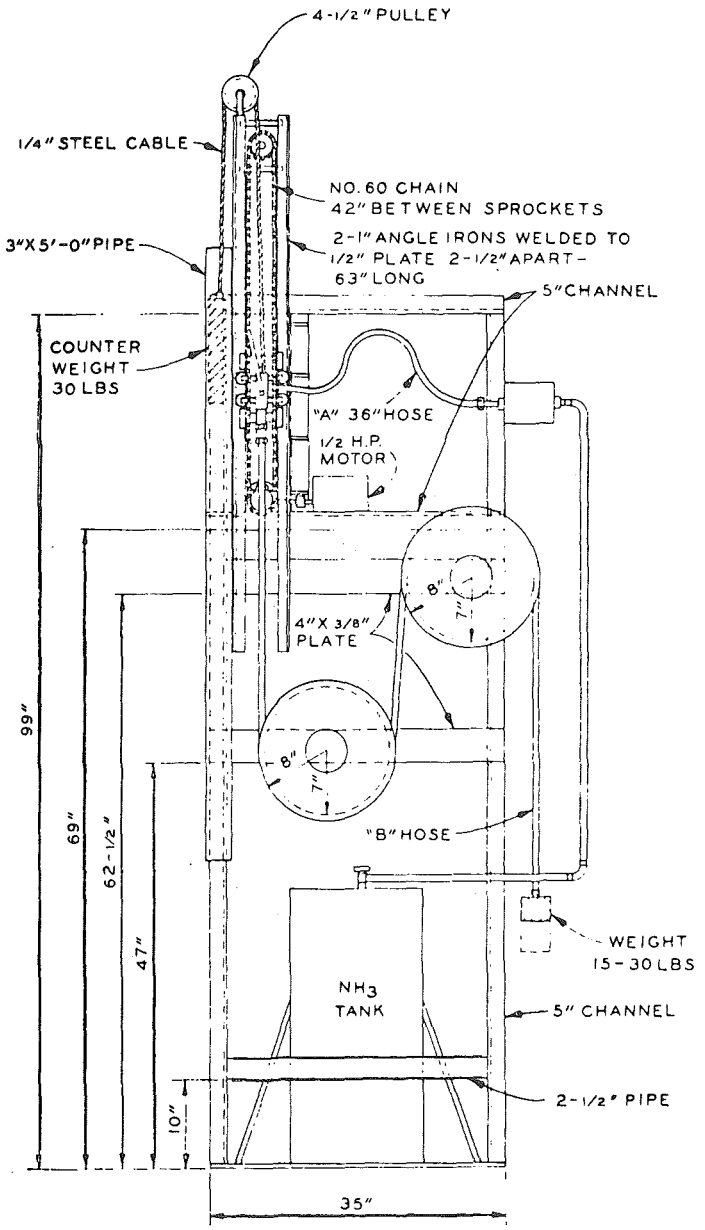
(b) Identification. Unless otherwise specified, shipping containers shall be marked with the size and quantity of hose therein, the name of the manufacturer, and the number of the order.

Figure 1



TROLLEY

Note: 1/2 H.P. electric motor-1750 RPM 20:1 gear reduction unit sprockets-14 teeth.



TYPICAL HOSE FLEXING MACHINE

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-51021, filed 11/13/80; Order 73-5, § 296-24-51021, filed 5/9/73 and Order 73-4, § 296-24-51021, filed 5/7/73.]

WAC 296-24-51099 Appendix C—Availability of reference material.

APPENDIX C

AVAILABILITY OF REFERENCE MATERIAL

American National Standards Institute, Inc. (ANSI) [formerly United States of America Standards Institute (USASI) formerly American Standards Association (ASA)]
11 West 42nd Street
New York, New York 10036

American Petroleum Institute (API)
1220 L Street Northwest
Washington, D.C. 20005

American Society of Mechanical Engineers (ASME)
345 East 47th Street
New York, New York 10017

American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, Pennsylvania 19103-1187

Bureau of Explosives*
50 "F" Street, N.W.
Washington, D.C. 20001

Compressed Gas Association, Incorporated (CGA)
1725 Jefferson Davis Highway
Arlington, Virginia 22202

The Fertilizer Institute (TFI) (formerly Agricultural Nitrogen Institute—National Plant Food Institute)
501 2nd Street Northeast
Washington, D.C. 20002

Chemical Manufacturers Association (CMA)
2501 "M" Street Northwest
Washington, D.C. 20037

National Fire Protection Association (NFPA)
Batterymarch Park
Quincy, Massachusetts 02269

Mine Safety and Health Administration
4015 Wilson Blvd.
Boston Towers, Number 3
Arlington, Virginia 22203

U.S. Government Printing Office*
North Capitol & "H" Streets Northwest
Washington, D.C. 20401

*DOT regulations available at nominal cost.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-51099, filed 7/20/94, effective 9/20/94; Order 76-6, § 296-24-51099, filed 3/1/76.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

PART G-1
MEANS OF EGRESS

WAC 296-24-550 Means of egress. Requirements for means of egress for all new and existing buildings shall be in accordance with specifications of National Fire Code, Volume 5, NFPA 101, Chapter 5, 1985 Ed., which is approved by the American National Standards Institute.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-550, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-550, filed 5/9/73 and Order 73-4, § 296-24-550, filed 5/7/73.]

WAC 296-24-55001 Definitions. (1) Means of egress. A means of egress is a continuous and unobstructed way of exit travel from any point in a building or structure to a public way and consists of three separate and distinct parts: The way of exit access, the exit, and the way of exit discharge. A means of egress comprises the vertical and horizontal ways of travel and shall include intervening room spaces, doorways, hallways, corridors, passageways, balconies, ramps, stairs, enclosures, lobbies, escalators, horizontal exits, courts, and yards.

(2) Exit access. Exit access is that portion of a means of egress which leads to an entrance to an exit.

(3) Exit. Exit is that portion of a means of egress which is separated from all other spaces of the building or structure by construction or equipment as required in these standards to provide a protected way of travel to the exit of discharge.

(4) Exit discharge. Exit discharge is that portion of a means of egress between the termination of an exit and a public way.

(5) Low hazard contents. Low hazard contents shall be classified as those of such low combustibility that no self-propagating fire therein can occur and that consequently the only probable danger requiring the use of emergency exits will be from panic, fumes, or smoke, or fire from some external source.

(6) High-hazard contents. High-hazard contents shall be classified as those which are liable to burn with extreme rapidity or from which poisonous fumes or explosions are to be feared in the event of fire.

(7) Ordinary hazard contents. Ordinary hazard contents shall be classified as those which are liable to burn with moderate rapidity and to give off a considerable volume of smoke but from which neither poisonous fumes nor explosions are to be feared in case of fire.

(8) Approved. For the purposes of chapter 296-24 WAC, Parts G-1, G-2 and G-3, approved shall mean listed or approved equipment by a nationally recognized testing laboratory. Refer to WAC 296-24-58503 (3)(c)(iv)(A) for definition of listed, and federal regulation 29 CFR 1910.7 for nationally recognized testing laboratory.

(9) Emergency action plan. A plan for a workplace, or parts thereof, describing what procedures the employer and employees must take to ensure employee safety from fire or other emergencies.

(10) Emergency escape route. The route that employees are directed to follow in the event they are required to evacuate the workplace or seek a designated refuge area.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-55001, filed 7/20/94, effective 9/20/94; 88-23-054 (Order 88-25), § 296-24-55001, filed 11/14/88. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-55001, filed 12/24/81; Order 73-5, § 296-24-55001, filed 5/9/73 and Order 73-4, § 296-24-55001, filed 5/7/73.]

WAC 296-24-55003 General requirements. (1) Application. WAC 296-24-550 through 296-24-55005 contain general fundamental requirements essential to providing a safe means of egress from fire and like emergencies. Nothing in these standards shall be construed to prohibit a better type of building construction, more exits, or otherwise safer conditions than the minimum requirements specified in these standards. Exits from vehicles, vessels, or other mobile structures are not covered by these standards.

[Order 73-5, § 296-24-55003, filed 5/9/73 and Order 73-4, § 296-24-55003, filed 5/7/73.]

WAC 296-24-55005 Fundamental requirements. (1) Every building or structure, new or old, designed for human occupancy shall be provided with exits sufficient to permit the prompt escape of occupants in case of fire or other emergency. The design of exits and other safeguards shall be such that reliance for safety to life in case of fire or other emergency will not depend solely on any single safeguard; additional safeguards shall be provided for life safety in case any single safeguard is ineffective due to some human or mechanical failure.

(2) Every building or structure shall be so constructed, arranged, equipped, maintained, and operated as to avoid undue danger to the lives and safety of its occupants from fire, smoke, fumes, or resulting panic during the period of time reasonably necessary for escape from the building or structure in case of fire or other emergency.

(3) Every building or structure shall be provided with exits of kinds, numbers, location, and capacity appropriate to the individual building or structure, with due regard to the character of the occupancy, the number of persons exposed, the fire protection available, and the height and type of construction of the building or structure, to afford all occupants convenient facilities for escape.

(4) In every building or structure exits shall be so arranged and maintained as to provide free and unobstructed egress from all parts of the building or structure at all times when it is occupied. No lock or fastening to prevent free escape from the inside of any building shall be installed except in mental, penal, or corrective institutions where supervisory personnel are continually on duty and effective provisions are made to remove occupants in case of fire or other emergency.

(5) Every exit shall be clearly visible or the route to reach it shall be conspicuously indicated in such a manner that every occupant of every building or structure who is physically and mentally capable will readily know the direction of escape from any point, and each path of escape, in its entirety, shall be so arranged or marked that the way to a place of safety outside is unmistakable. Any doorway or passageway not constituting an exit or way to reach an exit, but of such a character as to be subject to being mistaken for an exit, shall be so arranged or marked as to minimize its possible confusion with an exit and the resultant danger of persons endeavoring to escape from fire finding themselves trapped in a dead-end space, such as a cellar or storeroom, from which there is no other way out.

(6) In every building or structure equipped for artificial illumination, adequate and reliable illumination shall be provided for all exit facilities.

(7) In every building or structure of such size, arrangement, or occupancy that a fire may not itself provide adequate warning to occupants, fire alarm facilities shall be provided where necessary to warn occupants of the existence of fire so that they may escape, or to facilitate the orderly conduct of fire exit drills.

(8) Every building or structure, section, or area thereof of such size, occupancy, and arrangement that the reasonable safety of numbers of occupants may be endangered by the blocking of any single means of egress due to fire or smoke, shall have at least two means of egress remote from each other, so arranged as to minimize any possibility that both may be blocked by any one fire or other emergency conditions.

(9) Compliance with WAC 296-24-550 through 296-24-55005 shall not be construed as eliminating or reducing the necessity for other provisions for safety of persons using a structure under normal occupancy conditions, nor shall any provision of these standards be construed as requiring or permitting any condition that may be hazardous under normal occupancy conditions.

(10) Freezer rooms or refrigerated rooms. The opening device on all doors of walk-in refrigerated or freezer rooms must be the type, when locked from the outside with a lock, can be opened from inside.

[Order 74-27, § 296-24-55005, filed 5/7/74; Order 73-5, § 296-24-55005, filed 5/9/73 and Order 73-4, § 296-24-55005, filed 5/7/73.]

WAC 296-24-55007 Protection of employees exposed by construction and repair operations. (1) No building or structure under construction shall be occupied in whole or in part until all exit facilities required for the part occupied are completed and ready for use.

(2) No existing building shall be occupied during repairs or alterations unless all existing exits and any existing fire protection are continuously maintained, or in lieu thereof other measures are taken which provide equivalent safety.

(3) No flammable or explosive substances or equipment for repairs or alterations shall be introduced in a building of normally low or ordinary hazard classification while the building is occupied, unless the condition of use and safeguards provided are such as not to create any additional danger or handicap to egress beyond the normally permissible conditions in the building.

[Order 73-5, § 296-24-55007, filed 5/9/73 and Order 73-4, § 296-24-55007, filed 5/7/73.]

WAC 296-24-55009 Maintenance. (1) Every required exit, way of approach thereto, and way of travel from the exit into the street or open space, shall be continuously maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency.

(2) Every automatic sprinkler system, fire detection and alarm system, exit lighting, fire door, and other item of equipment, where provided, shall be continuously in proper operating condition.

[Order 73-5, § 296-24-55009, filed 5/9/73 and Order 73-4, § 296-24-55009, filed 5/7/73.]

WAC 296-24-565 Means of egress, general.

[Order 73-5, § 296-24-565, filed 5/9/73 and Order 73-4, § 296-24-565, filed 5/7/73.]

WAC 296-24-56501 Permissible exit components. An exit shall consist only of the approved components. Exit components shall be constructed as an integral part of the building or shall be permanently affixed thereto.

[Order 73-5, § 296-24-56501, filed 5/9/73 and Order 73-4, § 296-24-56501, filed 5/7/73.]

WAC 296-24-56503 Protective enclosure of exits. When an exit is protected by separation from other parts of the building the separating construction shall meet the following requirements.

(1) The separation shall have at least a 1-hour fire resistance rating when the exit connects three stories or less. This applies whether the stories connected are above or below the story at which exit discharge begins.

(2) The separation shall have at least a 2-hour fire resistance rating when the exit connects four or more stories, whether above or below the floor of discharge. It shall be constructed of noncombustible materials, and shall be supported by construction having at least a 2-hour fire resistance rating.

(3) Any opening therein shall be protected by an approved self-closing fire door.

(4) Openings in exit enclosures shall be confined to those necessary for access to the enclosure from normally occupied spaces and for egress from the enclosure.

[Order 73-5, § 296-24-56503, filed 5/9/73 and Order 73-4, § 296-24-56503, filed 5/7/73.]

WAC 296-24-56505 Width and capacity of means of egress. (1) The capacity in number of persons per unit of exit width for approved components of means of egress shall be as follows:

(a) Level egress components (including Class A ramps) 100 persons.

(b) Inclined egress components (including Class B ramps) 60 persons.

(c) A ramp shall be designated as Class A or Class B in accordance with the following Table E-1:

TABLE E-1

	Class A	Class B
Width	44 inches and greater.	30 to 44 inches.
Slope	1 to 1 3/16 inches in 12 inches.	1 3/16 to 2 inches in 12 inches.
Maximum height between landings	No limit.	12 feet.

(2) Means of egress shall be measured in units of exit width of 22 inches. Fractions of a unit shall not be counted, except that 12 inches added to one or more full units shall be counted as one-half a unit of exit width.

(3) Units of exit width shall be measured in the clear at the narrowest point of the means of egress except that a handrail may project inside the measured width on each side not more than 5 inches and a stringer may project inside the measured width not more than 1 1/2 inches. An exit or exit access door swinging into an aisle or passageway shall not restrict the effective width thereof at any point during its swing to less than the minimum widths hereafter specified.

[Order 73-5, § 296-24-56505, filed 5/9/73 and Order 73-4, § 296-24-56505, filed 5/7/73.]

WAC 296-24-56507 Egress capacity and occupant load. (1) The capacity of means of egress for any floor, balcony, tier, or other occupied space shall be sufficient for the occupant load thereof. The occupant load shall be the maximum number of persons that may be in the space at any time.

(2) Where exits serve more than one floor, only the occupant load of each floor considered individually need be used in computing the capacity of the exits at that floor, provided that exit capacity shall not be decreased in the direction of exit travel.

[Order 73-5, § 296-24-56507, filed 5/9/73 and Order 73-4, § 296-24-56507, filed 5/7/73.]

WAC 296-24-56509 Arrangement of exits. When more than one exit is required from a story, at least two of the exits shall be remote from each other and so arranged as to minimize any possibility that both may be blocked by any one fire or other emergency condition.

[Order 73-5, § 296-24-56509, filed 5/9/73 and Order 73-4, § 296-24-56509, filed 5/7/73.]

WAC 296-24-56511 Access to exits. (1) Exits shall be so located and exit access shall be so arranged that exits are readily accessible at all times. Where exits are not immediately accessible from an open floor area, safe and continuous passageways, aisles, or corridors leading directly to every exit and so arranged as to provide convenient access for each occupant to at least two exits by separate ways of travel, except as a single exit or limited dead ends are permitted by other provisions of these standards shall be maintained.

(2) A door from a room to an exit or to a way of exit access shall be of the side-hinged, swinging type. It shall swing with exit travel when the room is occupied by more than 50 persons or used for a high hazard occupancy.

(3) In no case shall access to an exit be through a bathroom, or other room subject to locking, except where the exit is required to service only the room subject to locking.

(4) Ways of exit access and the doors to exits to which they lead shall be so designed and arranged as to be clearly recognizable as such. Hangings or draperies shall not be placed over exit doors or otherwise so located as to conceal or obscure any exit. Mirrors shall not be placed on exit doors. Mirrors shall not be placed in or adjacent to any exit in such a manner as to confuse the direction of exit.

(5) Exit access shall be so arranged that it will not be necessary to travel toward any area of high hazard occupancy in order to reach the nearest exit, unless the path of travel is effectively shielded from the high hazard location by suitable partitions or other physical barriers.

(6) The minimum width of any way of exit access shall in no case be less than 28 inches. Where a single way of exit access leads to an exit, its capacity in terms of width shall be at least equal to the required capacity of the exit to which it leads. Where more than one way of exit access leads to an exit, each shall have a width adequate for the number of persons it must accommodate.

[Order 73-5, § 296-24-56511, filed 5/9/73 and Order 73-4, § 296-24-56511, filed 5/7/73.]

WAC 296-24-56513 Exterior ways of exit access. (1) Access to an exit may be by means of any exterior balcony, porch, gallery, or roof that conforms to the requirements of this section.

(2) Exterior ways of exit access shall have smooth, solid floors, substantially level, and shall have guards on the unenclosed sides.

(3) Where accumulation of snow or ice is likely because of the climate, the exterior way of exit access shall be protected by a roof, unless it serves as the sole normal means of access to the rooms or spaces served, in which case it may be assumed that snow and ice will be regularly removed in the course of normal occupancy.

(4) A permanent, reasonably straight path of travel shall be maintained over the required exterior way of exit access. There shall be no obstruction by railings, barriers, or gates that divide the open space into sections appurtenant to individual rooms, apartments, or other uses. Where the director or his/her duly authorized representative finds the required path of travel to be obstructed by furniture or other movable objects, he/she may require that they be fastened out of the way or he/she may require that railings or other permanent barriers be installed to protect the path of travel against encroachment.

(5) An exterior way of exit access shall be so arranged that there are no dead ends in excess of 20 feet. Any unenclosed exit served by an exterior way of exit access shall be so located that no part of the exit extends past a vertical plane 20 feet and one-half the required width of the exit from the end of and at right angles to the way of exit access.

(6) Any gallery, balcony, bridge, porch or other exterior exit access that projects beyond the outside wall of the building shall comply with the requirements of this section as to width and arrangement.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-56513, filed 11/14/88; Order 73-5, § 296-24-56513, filed 5/9/73 and Order 73-4, § 296-24-56513, filed 5/7/73.]

WAC 296-24-56515 Discharge from exits. (1) All exits shall discharge directly to the street, or to a yard, court, or other open space that gives safe access to a public way. The streets to which the exits discharge shall be of width adequate to accommodate all persons leaving the building. Yards, courts, or other open spaces to which exits discharge shall also be of adequate width and size to provide all persons leaving the building with ready access to the street.

(2) Stairs and other exits shall be so arranged as to make clear the direction of egress to the street. Exit stairs that continue beyond the floor of discharge shall be interrupted at the floor of discharge by partitions, doors, or other effective means.

(3) Where a doorway or corner of a building is located near a railroad or trolley track so that a worker is liable to walk upon the track in front of an approaching engine or cars a standard safeguard shall be installed with a warning sign.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-56515, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-56515, filed 5/9/73 and Order 73-4, § 296-24-56515, filed 5/7/73.]

WAC 296-24-56517 Headroom. Means of egress shall be so designed and maintained as to provide adequate headroom, but in no case shall the ceiling height be less than 7 feet 6 inches nor any projection from the ceiling be less than 6 feet 8 inches from the floor.

[Order 73-5, § 296-24-56517, filed 5/9/73 and Order 73-4, § 296-24-56517, filed 5/7/73.]

WAC 296-24-56519 Changes in elevation. Where a means of egress is not substantially level, such differences in elevation shall be negotiated by stairs or ramps.

[Order 73-5, § 296-24-56519, filed 5/9/73 and Order 73-4, § 296-24-56519, filed 5/7/73.]

WAC 296-24-56521 Maintenance and workmanship. (1) Doors, stairs, ramps, passages, signs, and all other components of means of egress shall be of substantial, reliable construction and shall be built or installed in a workmanlike manner.

(2) Means of egress shall be continuously maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency.

(3) Any device or alarm installed to restrict the improper use of an exit shall be so designed and installed that it cannot, even in cases of failure, impede or prevent emergency use of such exit.

[Order 73-5, § 296-24-56521, filed 5/9/73 and Order 73-4, § 296-24-56521, filed 5/7/73.]

WAC 296-24-56523 Furnishings and decorations. (1) No furnishings, decorations, or other objects shall be so place as to obstruct exits, access thereto, egress therefrom, or visibility thereof.

(2) No furnishings or decorations of an explosive or highly flammable character shall be used in any occupancy.

[Order 73-5, § 296-24-56523, filed 5/9/73 and Order 73-4, § 296-24-56523, filed 5/7/73.]

WAC 296-24-56525 Automatic sprinkler systems. All automatic sprinkler systems shall be continuously maintained in reliable operating condition at all times, and such periodic inspections and tests shall be made as are necessary to assure proper maintenance.

[Order 73-5, § 296-24-56525, filed 5/9/73 and Order 73-4, § 296-24-56525, filed 5/7/73.]

WAC 296-24-56527 Fire alarm signaling systems. The employer shall assure that fire alarm signaling systems are maintained and tested in accordance with the requirements of WAC 296-24-63107.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-56527, filed 12/24/81; Order 73-5, § 296-24-56527, filed 5/9/73 and Order 73-4, § 296-24-56527, filed 5/7/73.]

WAC 296-24-56529 Fire retardant paints. Fire retardant paints or solutions shall be renewed at such intervals as necessary to maintain the necessary flame retardant properties.

[Order 73-5, § 296-24-56529, filed 5/9/73 and Order 73-4, § 296-24-56529, filed 5/7/73.]

WAC 296-24-56531 Exit marking. (1) Exits shall be marked by a readily visible sign. Access to exits shall be marked by readily visible signs in all cases where the exit or way to reach it is not immediately visible to the occupants.

(2) Any door, passage, or stairway which is neither an exit nor a way of exit access, and which is so located or arranged as to be likely to be mistaken for an exit, shall be identified by a sign reading "not an exit" or similar designation, or shall be identified by a sign indicating its actual character, such as "to basement, " "storeroom, " "linen closet, " or the like.

(3) Every required sign designating an exit or way of exit access shall be so located and of such size, color, and design as to be readily visible. No decorations, furnishings, or equipment which impair visibility of an exit sign shall be permitted, nor shall there be any brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision to the required exit sign of such a character as to so detract attention from the exit sign that it may not be noticed.

(4) Every exit sign shall be distinctive in color and shall provide contrast with decorations, interior finish, or other signs.

(5) A sign reading "exit, " or similar designation, with an arrow indicating the direction, shall be placed in every location where the direction of travel to reach the nearest exit is not immediately apparent.

(6) Every exit sign shall be suitably illuminated by a reliable light source giving a value of not less than 5-foot candles on the illuminated surface. Artificial lights giving illumination to exit signs other than the internally illuminated types shall have screens, discs, or lenses of not less than 25 square inches area made of translucent material to show red or other specified designating color on the side of the approach.

(7) Each internally illuminated exit sign shall be provided in all occupancies where reduction of normal illumination is permitted.

(8) Every exit sign shall have the word "exit" in plainly legible letters not less than 6 inches high, with the principal strokes of letters not less than three-fourths-inch wide.

[Order 73-5, § 296-24-56531, filed 5/9/73 and Order 73-4, § 296-24-56531, filed 5/7/73.]

WAC 296-24-567 Employee emergency plans and fire prevention plans. (1) Emergency action plan.

(a) Scope and application. This subdivision applies to all emergency action plans required by a particular WISHA standard. The emergency action plan shall be in writing, and shall cover those designated actions employers and employees must take to ensure employee safety from fire and other emergencies.

(b) Elements. The following elements, at a minimum, shall be included in the plan:

(i) Emergency escape procedures and emergency escape route assignments;

(ii) Procedures to be followed by employees who remain to operate critical plant operations before they evacuate;

(iii) Procedures to account for all employees after emergency evacuation has been completed;

(iv) Rescue and medical duties for those employees who are to perform them;

(v) The preferred means of reporting fires and other emergencies; and

(vi) Names or regular job titles of persons or departments who can be contacted for further information or explanation of duties under the plan.

(c) Alarm systems.

(i) The employer shall establish an employee alarm system which complies with WAC 296-24-631.

(ii) If the employee alarm system is used for alerting fire brigade members, or for other purposes, a distinctive signal for each purpose shall be used.

(d) Evacuation. The employer shall establish in the emergency action plan the types of evacuation to be used in emergency circumstances.

(e) Training.

(i) Before implementing the emergency action plan, the employer shall designate and train a sufficient number of persons to assist in the safe and orderly emergency evacuation of employees.

(ii) The employer shall review the plan with each employee covered by the plan at the following times:

(A) Initially when the plan is developed;

(B) Whenever the employee's responsibilities or designated actions under the plan change; and

(C) Whenever the plan is changed.

(iii) The employer shall review with each employee upon initial assignment those parts of the plan which the employee must know to protect the employee in the event of an emergency. The written plan shall be kept at the workplace and made available for employee review.

(2) Fire prevention plan.

(a) Scope and application. This subsection applies to all fire prevention plans required by a particular WISHA standard. The fire prevention plan shall be in writing.

(b) Elements. The following elements, at a minimum, shall be included in the fire prevention plan:

(i) A list of the major workplace fire hazards and their proper handling and storage procedures, potential ignition sources (such as welding, smoking and others) and their control procedures, and the type of fire protection equipment or systems which can control a fire involving them;

(ii) Names or regular job titles of those personnel responsible for maintenance of equipment and systems installed to prevent or control ignitions or fires; and

(iii) Names or regular job titles of those personnel responsible for control of fuel source hazards.

(c) Housekeeping. The employer shall control accumulations of flammable and combustible waste materials and residues so that they do not contribute to a fire emergency. The housekeeping procedures shall be included in the written fire prevention plan.

(d) Training.

(i) The employer shall apprise employees of the fire hazards of the materials and processes to which they are exposed.

(ii) The employer shall review with each employee upon initial assignment those parts of the fire prevention plan which the employee must know to protect the employee in the event of an emergency. The written plan shall be kept in the workplace and made available for employee review.

(e) Maintenance. The employer shall regularly and properly maintain, according to established procedures, equipment and systems installed on heat producing equipment to prevent accidental ignition of combustible materials. The maintenance procedures shall be included in the written fire prevention plan.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-567, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-567, filed 12/24/81.]

WAC 296-24-56701 Appendix. This appendix serves as a nonmandatory guideline to assist employers in complying with the appropriate requirements.

(1) Employee emergency plans. Emergency action plan elements. The emergency action plan should address emergencies that the employer may reasonably expect in the workplace. Examples are: Fire, toxic chemical releases; hurricanes; tornadoes; blizzards; floods; and others. The elements of the emergency action plan presented in WAC 296-24-567 (1)(b) can be supplemented by the following to more effectively achieve employee safety and health in an emergency. The employer should list in detail the procedures to be taken by those employees who have been selected to remain behind to care for essential plant operations until their evacuations become absolutely necessary. Essential plant operations may include the monitoring of plant power supplies, water supplies, and other essential services which cannot be shut down for every emergency alarm. Essential plant operations may also include chemical or manufacturing processes which must be shut down in stages or steps where certain employees must be present to assure that safe shut down procedures are completed.

The use of floor plans or workplace maps which clearly show the emergency escape routes should be included in the emergency action plan. Color coding will aid employees in determining their route assignments.

The employer should also develop and explain in detail what rescue and medical first aid duties are to be performed and by whom. All employees are to be told what actions they are to take in these emergency situations that the employer anticipates may occur in the workplace.

(2) Emergency evacuation. At the time of an emergency, employees should know what type of evacuation is necessary and what their role is in carrying out the plan. In some cases where the emergency is very grave, total and immediate evacuation of all employees is necessary. In other emergencies, a partial evacuation of nonessential employees with a delayed evacuation of others may be necessary for continued plant operation. In some cases, only those employees in the immediate area of the fire may be expected to evacuate or move to a safe area such as when a local application fire suppression system discharge employee alarm is sounded. Employees must be sure that they know what is expected of them in all such emergency possibilities which have been planned in order to provide assurance of their safety from fire or other emergency.

The designation of refuge or safe areas for evacuation should be determined and identified in the plan. In a building divided into fire zones by fire walls, the refuge area may still be within the same building but in a different zone from where the emergency occurs.

Exterior refuge or safe areas may include parking lots, open fields or streets which are located away from the site of the emergency and which provide sufficient space to accommodate the employees. Employees should be instructed to move away from the exit discharge doors of the building, and to avoid congregating close to the building where they may hamper emergency operations.

(3) Emergency action plan training. The employer should assure that an adequate number of employees are available at all times during working hours to act as evacuation wardens so that employees can be swiftly moved from the danger location to the safe areas. Generally, one warden for each twenty employees in the workplace should be able to provide adequate guidance and instruction at the time of a fire emergency. The employees selected or who volunteer to serve as wardens should be trained in the complete workplace layout and the various alternative escape routes from the workplace. All wardens and fellow employees should be made aware of handicapped employees who may need extra assistance, such as using the buddy system, and of hazardous areas to be avoided during emergencies. Before leaving, wardens should check rooms and other enclosed spaces in the workplace for employees who may be trapped or otherwise unable to evacuate the area.

After the desired degree of evacuation is completed, the wardens should be able to account for or otherwise verify that all employees are in the safe areas.

In buildings with several places of employment, employers are encouraged to coordinate their plans with the other employers in the building. A building-wide or standardized plan for the whole building is acceptable provided that the employers inform their respective employees of their duties and responsibilities under the plan. The standardized plan need not be kept by each employer in the multi-employer building provided there is an accessible location within the building where the plan can be reviewed by affected employees. When multi-employer, building-wide plans are not feasible, employers should coordinate their plans with the other employers within the building to assure that conflicts and confusion are avoided during time of emergencies. In multi-story buildings where more than one employer is on a single

floor, it is essential that these employers coordinate their plans with each other to avoid conflicts and confusion.

(4) Fire prevention housekeeping. The standard calls for the control of accumulations of flammable and combustible waste materials.

It is the intent of this standard to assure that hazardous accumulations of combustible waste materials are controlled so that a fast developing fire, rapid spread of toxic smoke, or an explosion will not occur. This does not necessarily mean that each room has to be swept each day. Employers and employees should be aware of the hazardous properties of materials in their workplaces, and the degree of hazard each poses. Certainly, oil soaked rags have to be treated differently than general paper trash in office areas. However, large accumulations of waste paper or corrugated boxes, etc., can pose a significant fire hazard. Accumulations of materials which can cause large fires or generate dense smoke that are easily ignited or may start from spontaneous combustion, are the types of materials with which this standard is concerned. Such combustible materials may be easily ignited by matches, welder's sparks, cigarettes, and similar low level energy ignition sources.

(5) Maintenance of equipment under the fire prevention plan. Certain equipment is often installed in workplaces to control heat sources or to detect fuel leaks. An example is a temperature limit switch often found on deep-fat food fryers found in restaurants. There may be similar switches for high temperature dip tanks, or flame failure and flashback arrester devices on furnaces and similar heat producing equipment. If these devices are not properly maintained or if they become inoperative, a definite fire hazard exists. Again employees and supervisors should be aware of the specific type of control devices on equipment involved with combustible materials in the workplace and should make sure, through periodic inspection or testing, that these controls are operable. Manufacturers' recommendations should be followed to assure proper maintenance procedures.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-56701, filed 12/24/81.]

PART G-2
FIRE PROTECTION

WAC 296-24-585 Fire protection.

[Order 73-5, § 296-24-585, filed 5/9/73 and Order 73-4, § 296-24-585, filed 5/7/73.]

WAC 296-24-58501 Definitions applicable to fire protection. (1) "Class A fires" are fires in ordinary combustible materials, such as wood, cloth, paper, and rubber.

(2) "Class B fires" are fires in flammable liquids, gases, and greases.

(3) "Class C fires" are fires which involve energized electrical equipment where the electrical nonconductivity of the extinguishing media is of importance. (When electrical equipment is deenergized, extinguisher for Class A or B fires may be used safely.)

(4) "Class D fires" are fires in combustible metals, such as magnesium, titanium, zirconium, sodium, and potassium.

(5) Classification of portable fire extinguishers: "Portable fire extinguishers" are classified for use on certain classes of fires and rated for relative extinguishing effectiveness at a temperature of plus 70°F by nationally recognized testing laboratories. This is based upon the preceding classification of fires and the fire extinguishment potentials as determined by fire tests.

Note: The classification and rating system described in this section is that used by Underwriters' Laboratories, Inc. and Underwriters' Laboratories of Canada and is based on extinguishing preplanned fires of determined size and description as follows:

(a) Class A rating—Wood and excelsior fires excluding deep-seated conditions.

(b) Class B rating—Two-inch depth gasoline fires in square pans.

(c) Class C rating—No fire test. Agent must be a nonconductor of electricity.

(d) Class D rating—Special tests on specific combustible metal fires.

(6) A "light hazard" is a situation where the amount of combustibles or flammable liquids present is such that fires of small size may be expected. These may include offices, schoolrooms, churches, assembly halls, telephone exchanges, etc.

(7) An "ordinary hazard" is a situation where the amount of combustibles or flammable liquids present is such that fires of moderate size may be expected. These may include mercantile storage and display, auto showrooms, parking garages, light manufacturing, warehouses not classified as extra hazard, school shop areas, etc.

(8) An "extra hazard" is a situation where the amount of combustibles or flammable liquids present is such that fires of severe magnitude may be expected. These may include woodworking, auto repair, aircraft servicing, warehouses with high-piled (14 feet or higher) combustibles, and processes such as flammable liquid handling, painting, dipping, etc.

(9) Sprinkler system: A "sprinkler system, " for fire protection purposes, is an integrated system of underground and overhead piping designed in accordance with fire protection engineering standards. The system includes a suitable water supply, such as a gravity tank, fire pump, reservoir, or pressure tank and/or connection by underground piping to a city main. The portion of the sprinkler system above ground is a network of specially sized or hydraulically designed piping installed in a building, structure or area, generally overhead, and to which sprinklers are connected in a systematic pattern. The system includes a controlling valve and a device for actuating an alarm when the system is in operation. The system is usually activated by heat from a fire and discharges water over the fire area.

Note: The design and installation of water supply facilities such as gravity tanks, fire pumps, reservoirs, or pressure tanks, and underground piping are covered by NFPA Standards No. 22-1970, Water Tanks for Private Fire Protection; No. 20-1970, Installation of Centrifugal Fire Pumps and No. 24-1970, Outside Protection.

(10) Sprinkler alarms: A "sprinkler alarm" unit is an assembly of apparatus approved for the service and so con-

structed and installed that any flow of water from a sprinkler system equal to or greater than that from a single automatic sprinkler will result in an audible alarm signal on the premises.

(11) Class of service—Standpipe systems: "Standpipe systems" are grouped into three general classes of service for the intended use in the extinguishment of fire.

(a) Class I: For use by fire departments and those trained in handling heavy fire streams (2 1/2- inch hose).

(b) Class II: For use primarily by the building occupants until the arrival of the fire department (small hose).

(c) Class III: For use by either fire departments and those trained in handling heavy hose streams or by the building occupants.

(12) Class I service: "Class I service" is a standpipe system capable of furnishing the effective fire streams required during the more advanced stages of fire on the inside of buildings or for exposure fire.

(13) Class II service: "Class II service" is a standpipe system which affords a ready means for the control of incipient fires by the occupants of buildings during working hours and by watchperson and those present during the night time and holidays.

(14) Class III service: "Class III service" is a standpipe system capable of furnishing the effective fire streams required during the more advanced stages of fire on the inside of buildings as well as providing a ready means for the control of fires by the occupants of the building.

(15) Standpipe system: "Standpipe systems" are usually of the following types:

(a) A wet standpipe system having a supply valve open and water pressure maintained at all times.

(b) A standpipe system so arranged through the use of approved devices as to admit water to the system automatically by opening a hose valve.

(c) A standpipe system arranged to admit water to the system through manual operation of approved remote control devices located at each hose station.

(d) Dry standpipe having no permanent water supply. See also (11) of this section.

(16) Type I storage: "Type I storage" is that in which combustible commodities or noncombustible commodities involving combustible packaging or storage aids are stored over 15 feet but not more than 21 feet high in solid piles or over 12 feet but not more that 21 feet high in piles that contain horizontal channels. Minor quantities of commodities of hazard greater than ordinary combustibles may be included without affecting this general classification.

(17) Type II storage: "Type II storage" is that in which combustible commodities or noncombustible commodities involving combustible packaging or storage aids are stored not over 15 feet high in solid piles or not over 12 feet high in piles that contain horizontal channels. Minor quantities of commodities of hazard greater than ordinary combustibles may be included without affecting this general classification.

(18) Type III storage: "Type III storage" is that in which the stored commodities, packaging, and storage aids are noncombustible or contain only a small concentration of combustibles which are incapable of producing a fire that would cause appreciable damage to the commodities stored or to noncombustible wall, floor or roof construction. Ordinary combustible commodities in completely sealed noncombustible containers may qualify in this classification. General commodity storage that is subject to frequent changing and storage of combustible packaging and storage aids is excluded from this category.

(19) Approved: "Approved" means listed or approved by: (a) At least one of the following nationally recognized testing laboratories: Factory Mutual Engineering Corp.; Underwriters' Laboratories, Inc., or (b) federal agencies such as Mine Safety and Health Administration (MSHA); the National Institute for Occupational Safety and Health (NIOSH); Department of Transportation; or U.S. Coast Guard, which issue approvals for such equipment.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-58501, filed 7/20/94, effective 9/20/94; Order 74-27, § 296-24-58501, filed 5/7/74; Order 73-5, § 296-24-58501, filed 5/9/73 and Order 73-4, § 296-24-58501, filed 5/7/73.]

WAC 296-24-58503 Scope, application and definitions applicable. (1) Scope. This section contains requirements for fire brigades, and all portable and fixed fire suppression equipment, fire detection systems, and fire or employee alarm systems installed to meet the fire protection requirements of this chapter.

(2) Application. This section applies to all employments except for maritime, construction and agriculture.

(3) Definitions applicable to this section.

(a) "After-flame, " means the time a test specimen continues to flame after the flame source has been removed.

(b) "Aqueous film forming foam (AFFF), " means a fluorinated surfactant with a foam stabilizer which is diluted with water to act as a temporary barrier to exclude air from mixing with the fuel vapor by developing an aqueous film on the fuel surface of some hydrocarbons which is capable of suppressing the generation of fuel vapors.

(c) "Approved, " means acceptable to the director under the following criteria:

(i) If it is accepted, or certified, or listed, or labeled or otherwise determined to be safe by a nationally recognized testing laboratory; or

(ii) With respect to an installation or equipment of a kind which no nationally recognized testing laboratory accepts, certifies, lists, labels, or determines to be safe, if it is inspected or tested by another federal agency and found in compliance with the provisions of the applicable National Fire Protection Association Fire Code; or

(iii) With respect to custom-made equipment or related installations which are designed, fabricated for, and intended for use by its manufacturer on the basis of test data which the employer keeps and makes available for inspection to the director; and

(iv) For the purposes of (c) of this subsection:

(A) Equipment is listed if it is of a kind mentioned in a list which is published by a nationally recognized testing laboratory which makes periodic inspections of the production of such equipment and which states that such equipment meets nationally recognized standards or has been tested and found safe for use in a specified manner;

(B) Equipment is labeled if there is attached to it a label, symbol, or other identifying mark of a nationally recognized testing laboratory which makes periodic inspections of the production of such equipment and whose labeling indicates compliance with nationally recognized standards or tests to determine safe use in a specified manner;

(C) Equipment is accepted if it has been inspected and found by a nationally recognized testing laboratory to conform to specified plans or to procedures of applicable codes;

(D) Equipment is certified if it has been tested and found by a nationally recognized testing laboratory to meet nationally recognized standards or to be safe for use in a specified manner or is of a kind whose production is periodically inspected by a nationally recognized testing laboratory, and if it bears a label, tag, or other record of certification; and

(E) Refer to federal regulation 29 CFR 1910.7 for definition of nationally recognized testing laboratory.

(d) "Automatic fire detection device, " means a device designed to automatically detect the presence of fire by heat, flame, light, smoke or other products of combustion.

(e) "Buddy-breathing device, " means an accessory to self-contained breathing apparatus which permits a second person to share the same air supply as that of the wearer of the apparatus.

(f) "Carbon dioxide, " means a colorless, odorless, electrically nonconductive inert gas (chemical formula CO_2) that is a medium for extinguishing fires by reducing the concentration of oxygen or fuel vapor in the air to the point where combustion is impossible.

(g) "Class A fire, " means a fire involving ordinary combustible materials such as paper, wood, cloth, and some rubber and plastic materials.

(h) "Class B fire, " means a fire involving flammable or combustible liquids, flammable gases, greases and similar materials, and some rubber and plastic materials.

(i) "Class C fire, " means a fire involving energized electrical equipment where safety to the employee requires the use of electrically nonconductive extinguishing media.

(j) "Class D fire, " means a fire involving combustible metals such as magnesium, titanium, zirconium, sodium, lithium and potassium.

(k) "Dry chemical, " means an extinguishing agent composed of very small particles of chemicals such as, but not limited to, sodium bicarbonate, potassium bicarbonate, urea-based potassium bicarbonate, potassium chloride, or monoammonium phosphate supplemented by special treatment to provide resistance to packing and moisture absorption (caking) as well as to provide proper flow capabilities. Dry chemical does not include dry powders.

(l) "Dry powder, " means a compound used to extinguish or control Class D fires.

(m) "Education, " means the process of imparting knowledge or skill through systematic instruction. It does not require formal classroom instruction.

(n) "Enclosed structure, " means a structure with a roof or ceiling and at least two walls which may present fire hazards to employees, such as accumulations of smoke, toxic gases and heat similar to those found in buildings.

(o) "Extinguisher classification, " means the letter classification given an extinguisher to designate the class or classes of fire on which an extinguisher will be effective.

(p) "Extinguisher rating, " means the numerical rating given to an extinguisher which indicates the extinguishing potential of the unit based on standardized tests developed by Underwriters' Laboratories, Inc.

(q) "Fire brigade, " (private fire department, industrial fire department) means an organized group of employees who are knowledgeable, trained, and skilled in at least basic fire fighting operations.

(r) "Fixed extinguishing system, " means a permanently installed system that either extinguishes or controls a fire at the location of the system.

(s) "Flame resistance, " is the property of materials, or combinations of component materials, to retard ignition and restrict the spread of flame.

(t) "Foam, " means a stable aggregation of small bubbles which flow freely over a burning liquid surface and form a coherent blanket which seals combustible vapors and thereby extinguishes the fire.

(u) "Gaseous agent, " is a fire extinguishing agent which is in the gaseous state at normal room temperature and pressure. It has low viscosity, can expand or contract with changes in pressure and temperature, and has the ability to diffuse readily and to distribute itself uniformly throughout an enclosure.

(v) "Halon 1211, " means a colorless, faintly sweet smelling, electrically nonconductive liquefied gas (chemical formula $CBrC1F_2$) which is a medium for extinguishing fires by inhibiting the chemical chain reaction of fuel and oxygen. It is also known as bromochlorodifluoromethane.

(w) "Halon 1301, " means a colorless, odorless, electrically nonconductive gas (chemical formula $CBrF_3$) which is a medium for extinguishing fires by inhibiting the chemical chain reaction of fuel and oxygen. It is also known as bromotrifluoromethane.

(x) "Helmet, " is a head protective device consisting of a rigid shell, energy absorption system and chin strap intended to be worn to provide protection for the head or portions thereof, against impact, flying or falling objects, electric shock, penetration, heat and flame.

(y) "Incipient stage fire, " means a fire which is in the initial or beginning stage and which can be controlled or extinguished by portable fire extinguishers, Class II standpipe or small hose systems without the need for protective clothing or breathing apparatus.

(z) "Inspection, " means a visual check of fire protection systems and equipment to ensure that they are in place, charged, and ready for use in the event of a fire.

(aa) "Interior structural fire fighting, " means the physical activity of fire suppression, rescue or both, inside of buildings or enclosed structures which are involved in a fire situation beyond the incipient stage.

(bb) "Lining, " means a material permanently attached to the inside of the outer shell of a garment for the purpose of thermal protection and padding.

(cc) "Local application system, " means a fixed fire suppression system which has a supply of extinguishing agent, with nozzles arranged to automatically discharge extinguish-

ing agent directly on the burning material to extinguish or control a fire.

(dd) "Maintenance, " means the performance of services on fire protection equipment and systems to assure that they will perform as expected in the event of a fire. Maintenance differs from inspection in that maintenance requires the checking of internal fitting, devices and agent supplies.

(ee) "Multipurpose dry chemical, " means a dry chemical which is approved for use on Class A, Class B and Class C fires.

(ff) "Outer shell, " is the exterior layer of material on the fire coat and protective trousers which forms the outermost barrier between the fire fighter and the environment. It is attached to the vapor barrier and liner and is usually constructed with a storm flap, suitable closures, and pockets.

(gg) "Positive-pressure breathing apparatus, " means self-contained breathing apparatus in which the pressure in the breathing zone is positive in relation to the immediate environment during inhalation and exhalation.

(hh) "Predischarge employee alarm, " means an alarm which will sound at a set time prior to actual discharge of an extinguishing system so that employees may evacuate the discharge area prior to system discharge.

(ii) "Quick disconnect valve, " means a device which starts the flow of air by inserting of the hose (which leads from the facepiece) into the regulator of self-contained breathing apparatus, and stops the flow of air by disconnection of the hose from the regulator.

(jj) "Sprinkler alarm, " means an approved device installed so that any waterflow from a sprinkler system equal to or greater than that from single automatic sprinkler will result in an audible alarm signal on the premises.

(kk) "Sprinkler system, " means a system of piping designed in accordance with fire protection engineering standards and installed to control or extinguish fires. The system includes an adequate and reliable water supply, and a network of specially sized piping and sprinklers which are interconnected. The system also includes a control valve and a device for actuating an alarm when the system is in operation.

(ll) "Standpipe systems:"

(i) "Class I standpipe system, " means a two and one-half-inch (6.3 cm) hose connection for use by fire departments and those trained in handling heavy fire streams.

(ii) "Class II standpipe system, " means a one and one-half-inch (3.8 cm) hose system which provides a means for the control or extinguishment of incipient stage fires.

(iii) "Class III standpipe system, " means a combined system of hose which is for the use of employees trained in the use of hose operations and which is capable of furnishing effective water discharge during the more advanced stages of fire (beyond the incipient stage) in the interior of workplaces. Hose outlets are available for both one and one-half-inch (3.8 cm) and two and one-half-inch (6.3 cm) hose.

(iv) "Small hose system, " means a system of hose ranging in diameter from five-eighths-inch (1.6 cm) up to one and one-half-inch (3.8 cm) which is for the use of employees and which provides a means for the control and extinguishment of incipient stage fires.

(mm) "Total flooding system, " means a fixed suppression system which is arranged to automatically discharge a predetermined concentration of agent into an enclosed space for the purpose of fire extinguishment or control.

(nn) "Training, " means the process of making proficient through instruction and hands-on practice in the operation of equipment, including respiratory protection equipment, that is expected to be used in the performance of assigned duties.

(oo) "Vapor barrier, " means that material used to prevent or substantially inhibit the transfer of water, corrosive liquids and steam or other hot vapors from the outside of a garment to the wearer's body.

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-58503, filed 10/20/95, effective 1/16/96. Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-24-58503, filed 3/2/94, effective 3/1/95; 88-23-054 (Order 88-25), § 296-24-58503, filed 11/14/88; 87-24-051 (Order 87-24), § 296-24-58503, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58503, filed 12/24/81.]

WAC 296-24-58505 Fire brigades. Scope and application.

(1) Scope. This section contains requirements for the organization, training and personal protective equipment of fire brigades whenever they are established by an employer.

(2) Application. The requirements of this section apply to fire brigades, industrial fire departments and private or contractual type fire departments. Personal protective equipment requirements apply only to members of fire brigades performing interior structural fire fighting. The requirements of this section do not apply to airport crash rescue or forest fire fighting operations.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58505, filed 12/24/81.]

WAC 296-24-58507 Organization. (1) Organizational statement. The employer shall prepare and maintain a statement or written policy which establishes the existence of a fire brigade; the basic organizational structure; the type, amount, and frequency of training to be provided to fire brigade members; the expected number of members in the fire brigade; and the functions that the fire brigade is to perform at the workplace. The organizational statement shall be available for inspection by the director and by employees or their designated representatives.

(2) Personnel. The employer shall assure that employees who are expected to do interior structural fire fighting are physically capable of performing duties which may be assigned to them during emergencies. The employer shall not permit employees with known heart disease, epilepsy, or emphysema, to participate in fire brigade emergency activities unless a physician's certificate of the employees' fitness to participate in such activities is provided. For employees assigned to fire brigades before September 15, 1980, this section is effective on September 15, 1990. For employees assigned to fire brigades on or after September 15, 1980, this section is effective thirty days after filing with the code reviser.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58507, filed 12/24/81.]

WAC 296-24-58509 Training and education. (1) The employer shall provide training and education for all fire bri-

gade members commensurate with those duties and functions that fire brigade members are expected to perform. Such training and education shall be provided to fire brigade members before they perform fire brigade emergency activities. Fire brigade leaders and training instructors shall be provided with training and education which is more comprehensive than that provided to the general membership of the fire brigade.

(2) The employer shall assure that training and education is conducted frequently enough to assure that each member of the fire brigade is able to perform the member's assigned duties and functions satisfactorily and in a safe manner so as not to endanger fire brigade members or other employees. All fire brigade members shall be provided with training at least annually. In addition, fire brigade members who are expected to perform interior structural fire fighting shall be provided with an education session or training at least quarterly.

(3) The quality of the training an education program for fire brigade members shall be similar to those conducted by such fire training schools as the Maryland Fire and Rescue Institute; Iowa Fire Service Extension; West Virginia Fire Service Extension; Georgia Fire Academy; New York State Department, Fire Prevention and Control; Louisiana State University Firemen Training Program; or Washington State's Fire Service Training Commission for Vocational Education. (For example, for the oil refinery industry, with its unique hazards, the training and education program for those fire brigade members shall be similar to those conducted by Texas A and M University, Lamar University, Reno Fire School, or the Delaware State Fire School.)

(4) The employer shall inform fire brigade members about special hazards such as storage and use of flammable liquids and gases, toxic chemicals, radioactive sources, and water reactive substances, to which they may be exposed during fire and other emergencies. The fire brigade members shall also be advised of any changes that occur in relation to the special hazards. The employer shall develop and make available for inspection by fire brigade members, written procedures that describe the actions to be taken in situations involving the special hazards and shall include these in the training and education program.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58509, filed 12/24/81.]

WAC 296-24-58511 Fire fighting equipment. The employer shall maintain and inspect, at least annually, fire fighting equipment to assure the safe operational condition of the equipment. Portable fire extinguishers and respirators shall be inspected at least monthly. Fire fighting equipment that is in damaged or unserviceable condition shall be removed from service and replaced.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58511, filed 12/24/81.]

WAC 296-24-58513 Protective clothing. The following requirements apply to those employees who perform interior structural fire fighting. The requirements do not apply to employees who use fire extinguishers or standpipe systems to control or extinguish fires only in the incipient stage.

(1) General.

(a) The employer shall provide at no cost to the employee and assure the use of protective clothing which complies with the requirements of this section. The employer shall assure that protective clothing ordered or purchased after January 1, 1982, meets the requirements contained in this section. As the new equipment is provided, the employer shall assure that all fire brigade members wear the equipment when performing interior structural fire fighting. After July 1, 1985, the employer shall assure that all fire brigade members wear protective clothing meeting the requirements of this section when performing interior structural fire fighting.

(b) The employer shall assure that protective clothing protects the head, body, and extremities, and consists of at least the following components: Foot and leg protection; hand protection; body protection; eye, face and head protection.

(2) Foot and leg protection.

(a) Foot and leg protection shall meet the requirements of (b) and (c) of this subsection, and may be achieved by either of the following methods:

(i) Fully extended boots which provide protection for the legs; or

(ii) Protective shoes or boots worn in combination with protective trousers that meet the requirements of subsection (3) of this section.

(b) Protective footwear shall meet the requirements of WAC 296-24-088 for Class 75 footwear. In addition, protective footwear shall be water-resistant for at least five inches (12.7 cm) above the bottom of the heel and shall be equipped with slip-resistant outer soles.

(c) Protective footwear shall be tested in accordance with WAC 296-24-63599(1) Appendix E, and shall provide protection against penetration of the midsole by a size 8D common nail when at least 300 pounds (1330 N) of static force is applied to the nail.

(3) Body protection.

(a) Body protection shall be coordinated with foot and leg protection to ensure full body protection for the wearer. This shall be achieved by one of the following methods:

(i) Wearing of a fire-resistive coat meeting the requirements of (b) of this subsection, in combination with fully extended boots meeting the requirements of subsection (2)(b) and (c) of this section; or

(ii) Wearing of fire-resistive coat in combination with protective trousers both of which meet the requirements of (b) of this subsection.

(b) The performance, construction, and testing of fire-resistive coats and protective trousers shall be at least equivalent to the requirements of the National Fire Protection Association (NFPA) standard NFPA No. 1971-1975, "Protective Clothing for Structural Fire Fighting, " (see WAC 296-24-63499, Appendix D) with the following permissible variations from those requirements:

(i) Tearing strength of the outer shell shall be a minimum of eight pounds (35.6 N) in any direction when tested in accordance with WAC 296-24-63599(2), Appendix E; and

(ii) The outer shell may discolor but shall not separate or melt when placed in a forced air laboratory oven at a temperature of 500°F (260°C) for a period of five minutes. After cooling to ambient temperature and using the test method

specified in WAC 296-24-63599(3) Appendix E, char length shall not exceed 4.0 inches (10.2 cm) and after-flame shall not exceed 2.0 seconds.

(4) Hand protection.

(a) Hand protection shall consist of protective gloves or glove system which will provide protection against cut, puncture, and heat penetration. Gloves or glove system shall be tested in accordance with the test methods contained in the National Institute for Occupational Safety and Health (NIOSH) 1976 publication, "The Development of Criteria for Fire Fighter's Gloves; Vol. II, Part II: Test Methods, " (see WAC 296-24-63499, Appendix D—Availability of publications incorporated by references in WAC 296-24-58505—Fire brigades) and shall meet the following criteria for cut, puncture, and heat penetration:

(i) Materials used for gloves shall resist surface cut by a blade with an edge having a 60 degree included angle and a .001 inch (.0025 cm.) radius, under an applied force of 16 lbf (72N) and at a slicing velocity of greater or equal to 60 in/min. (2.5 cm/sec);

(ii) Materials used for the palm and palm side of the fingers shall resist puncture by a penetrometer (simulating a 4d lath nail), under an applied force of 13.2 lbf (60N) and at a velocity greater or equal to 20 in/min. (.85 cm/sec); and

(iii) The temperature inside the palm and gripping surface of the fingers of gloves shall not exceed 135°F (57°C) when gloves or glove system are exposed to 932°F (500°C) for five seconds at 4 psi (28 kPa) pressure.

(b) Exterior materials of gloves shall be flame resistant and shall be tested in accordance with WAC 296-24-63599(3) Appendix E. Maximum allowable after-flame shall be 2.0 seconds, and the maximum char length shall be 4.0 inches (10.2 cm).

(c) When design of the fire-resistive coat does not otherwise provide protection for the wrists, protective gloves shall have wristlets of at least 4.0 inches (10.2 cm) in length to protect the wrist area when the arms are extended upward and outward from the body.

(5) Head, eye and face protection.

(a) Head protection shall consist of a protective head device with ear flaps and chin strap which meet the performance, construction, and testing requirements of the National Fire Safety and Research Office of the National Fire Prevention and Control Administration, United States Department of Commerce (now known as the United States Fire Administration), which are contained in, "Model Performance Criteria for Structural Fire Fighters' Helmets, " (August 1977) (see WAC 296-24-63499, Appendix D).

(b) Protective eye and face devices which comply with WAC 296-24-078 shall be used by fire brigade members when performing operations where the hazards of flying or falling materials which may cause eye and face injuries are present. Protective eye and face devices provided as accessories to protective head devices (face shields) are permitted when such devices meet the requirements of WAC 296-24-078.

(c) Full facepieces, helmets, or hoods of breathing apparatus which meet the requirements of WAC 296-62-071 and 296-24-58515, shall be acceptable as meeting the eye and face protection requirements of (b) of this subsection.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-58513, filed 7/20/94, effective 9/20/94; 92-23-017 (Order 92-13), § 296-24-58513, filed 11/10/92, effective 12/18/92; 90-03-029 (Order 89-20), § 296-24-58513, filed 1/11/90, effective 2/26/90; 88-14-108 (Order 88-11), § 296-24-58513, filed 7/6/88; 87-24-051 (Order 87-24), § 296-24-58513, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58513, filed 12/24/81.]

WAC 296-24-58515 Respiratory protection devices. (1) General requirements.

(a) The employer shall provide at no cost to the employee and assure the use of respirators which comply with the requirements of this section. The employer shall assure that respiratory protective devices worn by brigade members meet the requirements contained in WAC 296-62-071, and the requirements contained in this section, and are certified under 30 CFR Part II.

(b) Approved self-contained breathing apparatus with full-facepiece, or with approved helmet or hood configuration, shall be provided to and worn by fire brigade members while working inside buildings or confined spaces where toxic products of combustion or an oxygen deficiency may be present. Such apparatus shall also be worn during emergency situations involving toxic substances.

(c) Approved self-contained breathing apparatus may be equipped with either a "buddy-breathing" device or a quick disconnect valve, even if these devices are not certified by NIOSH. If these accessories are used, they shall not cause damage to the apparatus, or restrict the air flow of the apparatus, or obstruct the normal operation of the apparatus.

(d) Approved self-contained compressed air breathing apparatus may be used with approved cylinders from other approved self-contained compressed air breathing apparatus provided that such cylinders are of the same capacity and pressure rating. All compressed air cylinders used with self-contained breathing apparatus shall meet DOT and NIOSH criteria.

(e) Self-contained breathing apparatus shall have a minimum service life rating of thirty minutes in accordance with the methods and requirements of the mine safety and health administration (MSHA) and NIOSH, except for escape self-contained breathing apparatus (ESCBA) used only for emergency escape purposes.

(f) Self-contained breathing apparatus shall be provided with an indicator which automatically sounds an audible alarm when the remaining service life of the apparatus is reduced to within a range of twenty to twenty-five percent of its rated service time.

(2) Positive-pressure breathing apparatus.

(a) The employer shall assure that self-contained breathing apparatus ordered or purchased after January 1, 1982, for use by fire brigade members performing interior structural fire fighting operations, are of the pressure-demand or other positive-pressure type. Effective July 1, 1983, only pressure-demand or other positive-pressure self-contained breathing apparatus shall be worn by fire brigade members performing interior structural fire fighting.

(b) This section does not prohibit the use of a self-contained breathing apparatus where the apparatus can be switched from a demand to a positive-pressure mode. However, such apparatus shall be in the positive-pressure mode

when fire brigade members are performing interior structural fire fighting operations.

(c) Negative-pressure self-contained breathing apparatus with a rated service life of more than two hours and which have a minimum protection factor of 5,000, as determined by an acceptable quantitative fit test performed on each individual, is acceptable for use only during those interior structural fire fighting situations for which the employer demonstrates that long duration breathing apparatus is necessary. Quantitative fit test procedures shall be available for inspection by the director or authorized representative. Such negative-pressure breathing apparatus will continue to be acceptable for eighteen months after a positive-pressure breathing apparatus with the same or longer rated service life is certified by NIOSH. After this eighteen-month period, all self-contained breathing apparatus used for these long duration situations shall be of the positive-pressure type.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-58515, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58515, filed 12/24/81.]

WAC 296-24-58517 Appendix A—Fire brigades. (1) Scope. This section does not require an employer to organize a fire brigade. However, if an employer does decide to organize a fire brigade, the requirements of this section apply.

(2) Prefire planning. It is suggested that prefire planning be conducted by the local fire department and/or the workplace fire brigade in order for them to be familiar with the workplace and process hazards. Involvement with the local fire department or fire prevention bureau is encouraged to facilitate coordination and cooperation between members of the fire brigade and those who might be called upon for assistance during a fire emergency.

(3) Organizational statement. In addition to the information required in the organizational statement, WAC 296-24-58507(1), it is suggested that the organizational statement also contain the following information: A description of the duties that the fire brigade members are expected to perform; the line authority of each fire brigade officer; the number of the fire brigade officers and number of training instructors; and a list and description of the types of awards or recognition that brigade members may be eligible to receive.

(4) Physical capability. The physical capability requirement applies only to those fire brigade members who perform interior structural fire fighting. Employees who cannot meet the physical capability requirement may still be members of the fire brigade as long as such employees do not perform interior structural fire fighting. It is suggested that fire brigade members who are unable to perform interior structural fire fighting be assigned less stressful and physically demanding fire brigade duties, e.g., certain types of training, recordkeeping, fire prevention inspection and maintenance, and fire pump operations.

Physically capable can be defined as being able to perform those duties specified in the training requirements of WAC 296-24-58509. Physically capable can also be determined by physical performance tests or by a physical examination when the examining physician is aware of the duties that the fire brigade member is expected to perform.

It is also recommended that fire brigade members participate in a physical fitness program. There are many benefits which can be attributed to being physically fit. It is believed that physical fitness may help to reduce the number of sprain and strain injuries as well as contributing to the improvement of the cardiovascular system.

(5) Training and education. The section on training and education does not contain specific training and education requirements because the type, amount, and frequency of training and education will be as varied as are the purposes for which fire brigades are organized. However, the section does require that training and education be commensurate with those functions that the fire brigade is expected to perform; i.e., those functions specified in the organizational statement. Such a performance requirement provides the necessary flexibility to design a training program which meets the needs of individual fire brigades.

At a minimum, hands-on training is required to be conducted annually for all fire brigade members. However, for those fire brigade members who are expected to perform interior structural fire fighting, some type of training or education session must be provided at least quarterly.

In addition to the required hands-on training, it is strongly recommended that fire brigade members receive other types of training and education such as: Classroom instruction, review of emergency action procedures, prefire planning, review of special hazards in the workplace, and practice in the use of self-contained breathing apparatus.

It is not necessary for the employer to duplicate the same training or education that a fire brigade member receives as a member of a community volunteer fire department, rescue squad, or similar organization. However, such training or education must have been provided to the fire brigade member within the past year and it must be documented that the fire brigade member has received the training or education. For example: There is no need for a fire brigade member to receive another training class in the use of positive-pressure self-contained breathing apparatus if the fire brigade member has recently completed such training as a member of a community fire department. Instead, the fire brigade member should receive training or education covering other important equipment or duties of the fire brigade as they relate to the workplace hazards, facilities and processes.

It is generally recognized that the effectiveness of fire brigade training and education depends upon the expertise of those providing the training and education as well as the motivation of the fire brigade members. Fire brigade training instructors must receive a higher level of training and education than the fire brigade members they will be teaching. This includes being more knowledgeable about the functions to be performed by the fire brigade and the hazards involved. The instructors should be qualified to train fire brigade members and demonstrate skills in communication, methods of teaching, and motivation. It is important for instructors and fire brigade members alike to be motivated toward the goal of the fire brigade and be aware of the importance of the service that they are providing for the protection of other employees and the workplace.

It is suggested that publications from the International Fire Service Training Association, the National Fire Protec-

tion Association (NFPA-1041), the International Society of Fire Service Instructors and other fire training sources be consulted for recommended qualifications of fire brigade training instructors.

In order to be effective, fire brigades must have competent leadership and supervision. It is important for those who supervise the fire brigade during emergency situations, e.g., fire brigade chiefs, leaders, etc., to receive the necessary training and education for supervising fire brigade activities during these hazardous and stressful situations. These fire brigade members with leadership responsibilities should demonstrate skills in strategy and tactics, fire suppression and prevention techniques, leadership principles, prefire planning, and safety practices. It is again suggested that fire service training sources be consulted for determining the kinds of training and education which are necessary for those with fire brigade leadership responsibilities.

It is further suggested that fire brigade leaders and fire brigade instructors receive more formalized training and education on a continuing basis by attending classes provided by such training sources as universities and university fire extension services.

The following recommendations should not be considered to be all of the necessary elements of a complete comprehensive training program, but the information may be helpful as a guide in developing a fire brigade training program.

All fire brigade members should be familiar with exit facilities and their location, emergency escape routes for handicapped workers, and the workplace "emergency action plan."

In addition, fire brigade members who are expected to control and extinguish fires in the incipient stage should, at a minimum, be trained in the use of fire extinguishers, standpipes, and other fire equipment they are assigned to use. They should also be aware of first aid medical procedures and procedures for dealing with special hazards to which they may be exposed. Training and education should include both classroom instruction and actual operation of the equipment under simulated emergency conditions. Hands-on type training must be conducted at least annually but some functions should be reviewed more often.

In addition to the above training, fire brigade members who are expected to perform emergency rescue and interior structural fire fighting should, at a minimum, be familiar with the proper techniques in rescue and fire suppression procedures. Training and education should include fire protection courses, classroom training, simulated fire situations including "wet drills" and, when feasible, extinguishment of actual mock fires. Frequency of training or education must be at least quarterly, but some drills or classroom training should be conducted as often as monthly or even weekly to maintain the proficiency of fire brigade members.

There are many excellent sources of training and education that the employer may want to use in developing a training program for the workplace fire brigade. These sources include publications, seminars, and courses offered by universities.

There are also excellent fire school courses by such facilities as Texas A and M University, Delaware State Fire School, Lamar University, and Reno Fire School, that deal with those unique hazards which may be encountered by fire brigades in the oil and chemical industry. These schools, and others, also offer excellent training courses which would be beneficial to fire brigades in other types of industries. These courses should be a continuing part of the training program, and employers are strongly encouraged to take advantage of these excellent resources.

It is also important that fire brigade members be informed about special hazards to which they may be exposed during fire and other emergencies. Such hazards as storage and use areas of flammable liquids and gases, toxic chemicals, water-reactive substances, etc., can pose difficult problems. There must be written procedures developed that describe the actions to be taken in situations involving special hazards. Fire brigade members must be trained in handling these special hazards as well as keeping abreast of any changes that occur in relation to these special hazards.

(6) Fire fighting equipment. It is important that fire fighting equipment that is in damaged or unserviceable condition be removed from service and replaced. This will prevent fire brigade members from using unsafe equipment by mistake.

Fire fighting equipment, except portable fire extinguishers and respirators, must be inspected at least annually. Portable fire extinguishers and respirators are required to be inspected at least monthly.

(7) Protective clothing.

(a) General. WAC 296-24-58513 does not require all fire brigade members to wear protective clothing. It is not the intention of these standards to require employers to provide a full ensemble of protective clothing for every fire brigade member without consideration given to the types of hazardous environments to which the fire brigade member might be exposed. It is the intention of these standards to require adequate protection for those fire brigade members who might be exposed to fires in an advanced stage, smoke, toxic gases, and high temperatures. Therefore, the protective clothing requirements only apply to those fire brigade members who perform interior structural fire fighting operations.

Additionally, the protective clothing requirements do not apply to the protective clothing worn during outside fire fighting operations (brush and forest fires, crash crew operations) or other special fire fighting activities. It is important that the protective clothing to be worn during these types of fire fighting operations reflect the hazards which are expected to be encountered by fire brigade members.

(b) Foot and leg protection. WAC 296-24-58513 permits an option to achieve foot and leg protection.

The section recognizes the interdependence of protective clothing to cover one or more parts of the body. Therefore, an option is given so that fire brigade members may meet the foot and leg requirements by either wearing long fire-resistive coats in combination with fully extended boots, or by wearing shorter fire-resistive coats in combination with protective trousers and protective shoes or shorter boots.

(c) Body protection. WAC 296-24-58513(3) provides an option for fire brigade members to achieve body protection. Fire brigade members may wear a fire-resistive coat in combination with fully extended boots, or they may wear a fire-resistive coat in combination with protective trousers.

Fire-resistive coats and protective trousers meeting all of the requirements contained in NFPA 1971-1975, "Protective Clothing for Structural Fire Fighters, " are acceptable as meeting the requirements of this standard.

The lining is required to be permanently attached to the outer shell. However, it is permissible to attach the lining to the outer shell material by stitching in one area such as at the neck. Fastener tape or snap fasteners may be used to secure the rest of the lining to the outer shell to facilitate cleaning. Reference to permanent lining does not refer to a winter liner which is a detachable extra lining used to give added protection to the wearer against the effects of cold weather and wind.

(d) Hand protection. The requirements of WAC 296-24-58513(4) on hand protection may be met by protective gloves or a glove system. A glove system consists of a combination of different gloves. The usual components of a glove system consist of a pair of gloves, which provide thermal insulation to the hand, worn in combination with a second pair of gloves which provide protection against flame, cut and puncture.

It is suggested that protective gloves provide dexterity and a sense of feel for objects. Criteria and test methods for dexterity are contained in the NIOSH publications, "The Development of Criteria for Firefighters' Gloves; Vol. I: Glove Requirements, " and "Vol. II: Glove Criteria and Test Methods." These NIOSH publications also contain a permissible modified version of Federal Test Method 191, Method 5903, (WAC 296-24-63599(3) Appendix E) for flame resistance when gloves, rather than glove material, are tested for flame resistance.

(e) Head, eye and face protection. Head protective devices which meet the requirements contained in NFPA No. 1972 are acceptable as meeting the requirements of this standard for head protection.

Head protective devices are required to be provided with ear flaps so that the ear flaps will be available if needed. It is recommended that ear protection always be used while fighting interior structural fires.

Many head protective devices are equipped with face shields to protect the eyes and face. These face shields are permissible as meeting the eye and face protection requirements of this section as long as such face shields meet the requirements of WAC 296-24-078 of the general safety and health standards.

Additionally, full facepieces, helmets or hoods of approved breathing apparatus which meet the requirements of WAC 296-62-071 and 296-24-58515 are also acceptable as meeting the eye and face protection requirements.

It is recommended that a flame resistant protective head covering such as a hood or snood, which will not adversely affect the seal of a respirator facepiece, be worn during interior structural fire fighting operations to protect the sides of the face and hair.

(8) Respiratory protective devices. Respiratory protection is required to be worn by fire brigade members while working inside buildings or confined spaces where toxic products of combustion or an oxygen deficiency is likely to be present; respirators are also to be worn during emergency situations involving toxic substances. When fire brigade members respond to emergency situations, they may be exposed to unknown contaminants in unknown concentrations. Therefore, it is imperative that fire brigade members wear proper respiratory protective devices during these situations. Additionally, there are many instances where toxic products of combustion are still present during mop-up and overhaul operations. Therefore, fire brigade members should continue to wear respirators during these types of operations.

Self-contained breathing apparatus are not required to be equipped with either buddy-breathing device or a quick disconnect valve. However, these accessories may be very useful and are acceptable as long as such accessories do not cause damage to the apparatus, restrict the air flow of the apparatus, or obstruct the normal operation of the apparatus.

Buddy-breathing devices are useful for emergency situations where a victim or another fire brigade member can share the same air supply with the wearer of the apparatus for emergency escape purposes.

The employer is encouraged to provide fire brigade members with an alternative means of respiratory protection to be used only for emergency escape purposes if the self-contained breathing apparatus becomes inoperative. Such alternative means of respiratory protection may be either a buddy-breathing device or an escape self-contained breathing apparatus (ESCBA). The ESCBA is a short-duration respiratory protective device which is approved for only emergency escape purposes. It is suggested that if ESCBA units are used, that they be of at least five minutes service life.

Quick disconnect valves are devices which start the flow of air by insertion of the hose (which leads to the facepiece) into the regulator of self-contained breathing apparatus, and stop the flow of air by disconnecting the hose from the regulator. These devices are particularly useful for those positive-pressure self-contained breathing apparatus which do not have the capability of being switched from the demand to the positive-pressure mode.

The use of a self-contained breathing apparatus where the apparatus can be switched from a demand to a positive-pressure mode is acceptable as long as the apparatus is in the positive-pressure mode when performing interior structural fire fighting operations. Also acceptable are approved respiratory protective devices which have been converted to the positive-pressure type when such modification is accomplished by trained and experienced persons using kits or parts approved by NIOSH and provided by the manufacturer and by following the manufacturer's instructions.

There are situations which require the use of respirators which have a duration of two hours or more. Presently, there are no approved positive-pressure apparatus with a rated service life of more than two hours. Consequently, negative-pressure self-contained breathing apparatus with a rated service life of more than two hours and which have a minimum protection factor of 5,000 as determined by an acceptable quantitative fit test performed on each individual, will be acceptable for use during situations which require long duration apparatus. Long duration apparatus may be needed in such instances as working in tunnels, subway systems, etc. Such negative-pressure breathing apparatus will continue to be acceptable for a maximum of eighteen months after a positive-pressure apparatus with the same or longer rated service life of more than two hours is certified by NIOSH/MSHA.

After this eighteen-month phase-in period, all self-contained breathing apparatus used for these long duration situations will have to be of the positive-pressure type.

Protection factor (sometimes called fit factor) is defined as the ratio of the contaminant concentrations outside of the respirator to the contaminant concentrations inside the facepiece of the respirator.

$$PF = \frac{\text{Concentration outside respirator}}{\text{Concentration inside facepiece}}$$

Protection factors are determined by quantitative fit tests. An acceptable quantitative fit test should include the following elements:

(a) A fire brigade member who is physically and medically capable of wearing respirators, and who is trained in the use of respirators, dons a self-contained breathing apparatus equipped with a device that will monitor the concentration of a contaminant inside the facepiece.

(b) The fire brigade member then performs a qualitative fit test to assure the best face-to-facepiece seal as possible. A qualitative fit test can consist of a negative-pressure test, positive-pressure test, isoamyl acetate vapor (banana oil) test, or an irritant smoke test. For more details on respirator fitting see the NIOSH booklet entitled, "A Guide to Industrial Respiratory Protection, " June 1976, and HHS publication No. (NIOSH) 76-189.

(c) The wearer should then perform physical activity which reflects the level of work activity which would be expected during fire fighting activities. The physical activity should include simulated fire-ground work activity or physical exercise such as running-in-place, a step test, etc.

(d) Without readjusting the apparatus, the wearer is placed in a test atmosphere containing a nontoxic contaminant with a known, constant concentration.

The protection factor is then determined by dividing the known concentration of the contaminant in the test atmosphere by the concentration of the contaminant inside the facepiece when the following exercises are performed:

(i) Normal breathing with head motionless for one minute;

(ii) Deep breathing with head motionless for thirty seconds;

(iii) Turning head slowly from side to side while breathing normally, pausing for at least two breaths before changing direction. Continue for at least one minute;

(iv) Moving head slowly up and down while breathing normally, pausing for at least two breaths before changing direction. Continue for at least two minutes;

(v) Reading from a prepared text, slowly and clearly, and loudly enough to be heard and understood. Continue for one minute; and

(vi) Normal breathing with head motionless for at least one minute.

The protection factor which is determined must be at least 5,000. The quantitative fit test should be conducted at least three times. It is acceptable to conduct all three tests on the same day. However, there should be at least one hour between tests to reflect the protection afforded by the apparatus during different times of the day.

The above elements are not meant to be a comprehensive, technical description of a quantitative fit test protocol. However, quantitative fit test procedures which include these elements are acceptable for determining protection factors. Procedures for a quantitative fit test are required to be available for inspection by the director or authorized representative.

Organizations such as Los Alamos National Laboratory, Lawrence Livermore Laboratory, NIOSH, and American National Standards Institute (ANSI) are excellent sources for additional information concerning qualitative and quantitative fit testing.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-58517, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-58517, filed 12/24/81.]

PART G-3
FIRE SUPPRESSION EQUIPMENT

WAC 296-24-592 Portable fire extinguishers. All sections of this chapter which include WAC 296-24-592 in the section number apply to portable fire extinguishers.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-592, filed 12/24/81.]

WAC 296-24-59201 Scope and application. The requirements of this section apply to the placement, use, maintenance, and testing of portable fire extinguishers provided for the use of employees. WAC 296-24-59207 does not apply to extinguishers provided for employee use on the outside of workplace buildings or structures. Where extinguishers are provided but are not intended for employee use and the employer has an emergency action plan and a fire prevention plan which meet the requirements of WAC 296-24-567, then only the requirements of WAC 296-24-59209 and 296-24-59211 apply.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59201, filed 12/24/81.]

WAC 296-24-59203 Exemptions. (1) Where the employer has established and implemented a written fire safety policy which requires the immediate and total evacuation of employees from the workplace upon the sounding of a fire alarm signal and which includes an emergency action plan and a fire prevention plan which meet the requirements of WAC 296-24-567, and when extinguishers are not available in the workplace, the employer is exempt from all requirements of this section unless a specific standard in chapter 296-24 WAC requires that a portable fire extinguisher be provided.

(2) Where the employer has an emergency action plan meeting the requirements of WAC 296-24-567, which designates certain employees to be the only employees authorized to use the available portable fire extinguishers, and which requires all other employees in the fire area to immediately evacuate the affected work area upon the sounding of the fire alarm, the employer is exempt from the distribution requirements in WAC 296-24-59207.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59203, filed 12/24/81.]

WAC 296-24-59205 General requirements. (1) The employer shall provide portable fire extinguishers and shall mount, locate and identify them so that they are readily accessible to employees without subjecting the employees to possible injury.

(2) Only approved portable fire extinguishers shall be used to meet the requirements of this section.

(3) The employer shall not provide or make available in the workplace portable fire extinguishers using carbon tetrachloride or chlorobromomethane extinguishing agents.

(4) The employer shall assure that portable fire extinguishers are maintained in a fully charged and operable condition and kept in their designated places at all times except during use.

(5) The employer shall permanently remove from service by January 1, 1982, all soldered or riveted shell self-generating soda acid or self-generating foam or gas cartridge water type portable fire extinguishers which are operated by inverting the extinguisher to rupture the cartridge or to initiate an uncontrollable pressure generating chemical reaction to expel the agent.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59205, filed 12/24/81.]

WAC 296-24-59207 Selection and distribution. (1) Portable fire extinguishers shall be provided for employee use and selected and distributed based on the classes of anticipated workplace fires and on the size and degree of hazard which would affect their use.

(2) The employer shall distribute portable fire extinguishers for use by employees on Class A fires so that the travel distance for employees to any extinguisher is 75 feet (22.9 m) or less.

(3) The employer may use uniformly spaced standpipe systems or hose stations connected to a sprinkler system installed for emergency use by employees instead of Class A portable fire extinguishers, provided that such systems meet the respective requirements of WAC 296-24-602 or 296-24-607, that they provide total coverage of the area to be protected, and that employees are trained at least annually in their use.

(4) The employer shall distribute portable fire extinguishers for use by employees on Class B fires so that the travel distance from the Class B hazard area to any extinguisher is 50 feet (15.2 m) or less.

(5) The employer shall distribute portable fire extinguishers used for Class C hazards on the basis of the appropriate pattern for the existing Class A or Class B hazards.

(6) The employer shall distribute portable fire extinguishers or other containers of Class D extinguishing agent for use by employees so that the travel distance from the combustible metal working area to an extinguishing agent is 75 feet (22.9 m) or less. Portable fire extinguishers for Class D hazards are required in those combustible metal working areas where combustible metal powders, flakes, shavings, or similarly sized products are generated at least once every two weeks.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59207, filed 12/24/81.]

WAC 296-24-59209 Inspection, maintenance and testing. (1) The employer shall be responsible for the inspection, maintenance and testing of all portable fire extinguishers in the workplace.

(2) Portable extinguishers or hose used in lieu thereof under WAC 296-24-59207(3) shall be visually inspected monthly.

(3) The employer shall assure that portable fire extinguishers are subjected to an annual maintenance check. Stored pressure extinguishers do not require an internal examination. The employer shall record the annual maintenance date and retain this record for one year after the last entry or the life of the shell, whichever is less. The record shall be available to the director upon request.

(4) The employer shall assure that stored-pressure dry chemical extinguishers that require a twelve-year hydrostatic test are emptied and subjected to applicable maintenance procedures every six years. Dry chemical extinguishers having nonrefillable disposable containers are exempt from this requirement. When recharging or hydrostatic testing is performed, the six-year requirement begins from that date.

(5) The employer shall assure that alternate equivalent protection is provided when portable fire extinguishers are removed from service for maintenance and recharging.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59209, filed 12/24/81.]

WAC 296-24-59211 Hydrostatic testing. (1) The employer shall assure that hydrostatic testing is performed by trained persons with suitable testing equipment and facilities.

(2) The employer shall assure that portable extinguishers are hydrostatically tested at the intervals listed in Table I of this section, except under any of the following conditions:

(a) When the unit has been repaired by soldering, welding, brazing, or use of patching compounds;

(b) When the cylinder or shell threads are damaged;

TABLE I

Type of Extinguishers	Test Interval (Years)
Soda acid (soldered brass shells) (until January 1, 1982)	(1)
Soda acid (stainless steel shell)	5
Cartridge operated water and/or antifreeze	5
Stored pressure water and/or antifreeze	5
Wetting agent	5
Foam (soldered brass shells) (until January 1, 1982)	(1)
Foam (stainless steel shell)	5
Aqueous film forming form (AFFF)	5
Loaded stream	5
Dry chemical with stainless steel	5
Carbon dioxide	5
Dry chemical, stored pressure, with mild steel, brazed brass or aluminum shells	12
Dry chemical, cartridge or cylinder operated, with mild steel shells	12
Halon 1211	12
Halon 1301	12

Type of Extinguishers	Test Interval (Years)
Dry powder, cartridge or cylinder operated, with mild steel shell	12

(1) Extinguishers having shells constructed of copper or brass joined by soft solder or rivets shall not be hydrostatically tested and shall be removed from service by January 1, 1982. (Not permitted.)

(c) When there is corrosion that has caused pitting, including corrosion under removable name plate assemblies;

(d) When the extinguisher has been burned in a fire; or

(e) When a calcium chloride extinguishing agent has been used in a stainless steel shell.

(3) In addition to an external visual examination, the employer shall assure that an internal examination of cylinders and shells to be tested is made prior to the hydrostatic tests.

(4) The employer shall assure that portable fire extinguishers are hydrostatically tested whenever they show new evidence of corrosion or mechanical injury, except under the conditions listed in subsection (2)(a) through (e) of this section.

(5) The employer shall assure that hydrostatic tests are performed on extinguisher hose assemblies which are equipped with a shut-off nozzle at the discharge end of the hose. The test interval shall be the same as specified for the extinguisher on which the hose is installed.

(6) The employer shall assure that carbon dioxide hose assemblies with a shut-off nozzle are hydrostatically tested at 1,250 psi (8,620 kPa).

(7) The employer shall assure that dry chemical and dry powder hose assemblies with a shut-off nozzle are hydrostatically tested at 300 psi (2,070 kPa).

(8) Hose assemblies passing a hydrostatic test do not require any type of recording or stamping.

(9) The employer shall assure that hose assemblies for carbon dioxide extinguishers that require a hydrostatic test are tested within a protective cage device.

(10) The employer shall assure that carbon dioxide extinguishers and nitrogen or carbon dioxide cylinders used with wheeled extinguishers are tested every five years at 5/3 of the service pressure as stamped into the cylinder. Nitrogen cylinders which comply with 29 CFR 173.34(e)(15) may be hydrostatically tested every ten years.

(11) The employer shall assure that all stored pressure and Halon 1211 types of extinguishers are hydrostatically tested at the factory test pressure not to exceed two times the service pressure.

(12) The employer shall assure that acceptable self-generating type soda acid and foam extinguishers are tested at 350 psi (2, 410 kPa).

(13) Air or gas pressure may not be used for hydrostatic testing.

(14) Extinguisher shells, cylinders, or cartridges which fail a hydrostatic pressure test, or which are not fit for testing shall be removed from service and from the workplace.

(15)(a) The equipment for testing compressed gas type cylinders shall be of the water-jacket type. The equipment shall be provided with an expansion indicator which operates with an accuracy within one percent of the total expansion or 0.1 cc (.1 mL) of liquid.

(b) The equipment for testing noncompressed gas type cylinders shall consist of the following:

(i) A hydrostatic test pump, hand or power operated, capable of producing not less than one hundred fifty percent of the test pressure, which shall include appropriate check valves and fittings;

(ii) A flexible connection for attachment to fittings to test through the extinguisher nozzle, test bonnet, or hose outlet, as is applicable; and

(iii) A protective cage or barrier for personal protection of the tester, designed to provide visual observation of the extinguisher under test.

(16) The employer shall maintain and provide upon request to the director evidence that the required hydrostatic testing of fire extinguishers has been performed at the time intervals shown in Table I. Such evidence shall include the date of test, the test pressure used, the serial number, or other identifier of the fire extinguisher that was tested, and the person or agency performing the test. Such records shall be kept until the extinguisher is hydrostatically retested at the time interval specified in Table I, or until the extinguisher is taken out of service, whichever is less.

[Statutory Authority: Chapter 49.17 RCW. 92-23-017 (Order 92-13), § 296-24-59211, filed 11/10/92, effective 12/18/92; 87-24-051 (Order 87-24), § 296-24-59211, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59211, filed 12/24/81.]

WAC 296-24-59213 Training and education. (1) Where the employer has provided portable fire extinguishers for employee use in the workplace, the employer shall also provide an educational program to familiarize employees with the general principles of fire extinguisher use and the hazards involved with incipient stage fire fighting.

(2) The employer shall provide the education required in subsection (1) of this section upon initial employment and at least annually thereafter.

(3) The employer shall provide employees who have been designated to use fire fighting equipment as part of an emergency action plan with training in the use of the appropriate equipment.

(4) The employer shall provide the training required in subsection (3) of this section upon initial assignment to the designated group of employees and at least annually thereafter.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59213, filed 12/24/81.]

WAC 296-24-59215 Appendix A—Portable fire extinguishers. (1) Scope and application. The scope and application of this section is written to apply to three basic types of workplaces. First, there are those workplaces where the employer has chosen to evacuate all employees from the workplace at the time of a fire emergency. Second, there are those workplaces where the employer has chosen to permit certain employees to fight fires and to evacuate all other nonessential employees at the time of a fire emergency. Third, there are those workplaces where the employer has chosen to

permit all employees in the workplace to use portable fire extinguishers to fight fires.

The section also addresses two kinds of work areas. The entire workplace can be divided into outside (exterior) work areas and inside (interior) work areas. This division of the workplace into two areas is done in recognition of the different types of hazards employees may be exposed to during fire fighting operations. Fires in interior workplaces, pose a greater hazard to employees; they can produce greater exposure to quantities of smoke, toxic gases, and heat because of the capability of a building or structure to contain or entrap these products of combustion until the building can be ventilated. Exterior work areas, normally open to the environment, are somewhat less hazardous, because the products of combustion are generally carried away by the thermal column of the fire. Employees also have a greater selection of evacuation routes if it is necessary to abandon fire fighting efforts.

In recognition of the degree of hazard present in the two types of work areas, the standards for exterior work areas are somewhat less restrictive in regards to extinguisher distribution. WAC 296-24-59201 explains this by specifying which sections apply.

(2) Portable fire extinguisher exemptions. In recognition of the three options given to employers in regard to the amount of employee evacuation to be carried out, the standards permit certain exemptions based on the number of employees expected to use fire extinguishers.

Where the employer has chosen to totally evacuate the workplace at the time of a fire emergency and when fire extinguishers are not provided, the requirements of this section do not apply to that workplace.

Where the employer has chosen to partially evacuate the workplace or the effected area at the time of a fire emergency and has permitted certain designated employees to remain behind to operate critical plant operations or to fight fires with extinguishers, then the employer is exempt from the distribution requirements of this section. Employees who will be remaining behind to perform incipient fire fighting or members of a fire brigade must be trained in their duties. The training must result in the employees becoming familiar with the locations of fire extinguishers. Therefore, the employer must locate the extinguishers in convenient locations where the employees know they can be found. For example, they could be mounted in the fire truck or cart that the fire brigade uses when it responds to a fire emergency. They can also be distributed as set forth in the National Fire Protection Association's Standard No. 10, "Portable Fire Extinguishers."

Where the employer has decided to permit all employees in the workplace to use fire extinguishers, then the entire WISHA standard applies.

(3) Portable fire extinguisher mounting. Previous standards for mounting fire extinguishers have been criticized for requiring specific mounting locations. In recognition of this criticism, the standard has been rewritten to permit as much flexibility in extinguisher mounting as is acceptable to assure that fire extinguishers are available when needed and that employees are not subjected to injury hazards when they try to obtain an extinguisher.

It is the intent of WISHA to permit the mounting of extinguishers in any location that is accessible to employees without the use of portable devices such as a ladder. This limitation is necessary because portable devices can be moved or taken from the place where they are needed and, therefore, might not be available at the time of an emergency.

Employers are given as much flexibility as possible to assure that employees can obtain extinguishers as fast as possible. For example, an acceptable method of mounting extinguishers in areas where fork lift trucks or tow-motors are used is to mount the units on retractable board which, by means of counterweighting, can be raised above the level where they could be struck by vehicular traffic. When needed, they can be lowered quickly for use. This method of mounting can also reduce vandalism and unauthorized use of extinguishers. The extinguishers may also be mounted as outlined in the National Fire Protection Association's Standard No. 10, "Portable Fire Extinguishers."

(4) Selection and distribution. The employer is responsible for the proper selection and distribution of fire extinguishers and the determination of the necessary degree of protection. The selection and distribution of fire extinguishers must reflect the type and class of fire hazards associated with a particular workplace.

Extinguishers for protecting Class A hazards may be selected from the following types: Water, foam, loaded stream, or multipurpose dry chemical. Extinguishers for protecting Class B hazards may be selected from the following types: Halon 1301, Halon 1211, carbon dioxide, dry chemicals, foam, or loaded stream. Extinguishers for Class C hazards may be selected from the following types: Halon 1301, Halon 1211, carbon dioxide, or dry chemical.

Combustible metal (Class D hazards) fires pose a different type of fire problem in the workplace. Extinguishers using water, gas, or certain dry chemicals cannot extinguish or control this type of fire. Therefore, certain metals have specific dry powder extinguishing agents which can extinguish or control this type of fire. Those agents which have been specifically approved for use on certain metal fires provide the best protection; however, there are also some "universal" type agents which can be used effectively on a variety of combustible metal fires if necessary. The "universal" type agents include: Foundry flux, Lith-X powder, TMB liquid, pyromet powder, TEC powder, dry talc, dry graphite powder, dry sand, dry sodium chloride, dry soda ash, lithium chloride, zirconium silicate, and dry dolomite.

Water is not generally accepted as an effective extinguishing agent for metal fires. When applied to hot burning metal, water will break down into its basic atoms of oxygen and hydrogen. This chemical breakdown contributes to the combustion of the metal. However, water is also a good universal coolant and can be used on some combustible metals, but only under proper conditions and application, to reduce the temperature of the burning metal below the ignition point. For example, automatic deluge systems in magnesium plants can discharge such large quantities of water on burning magnesium that the fire will be extinguished. The National Fire Protection Association has specific standards for this type of automatic sprinkler system. Further information on the control of metal fires with water can be found in the National Fire Protection Association's *Fire Protection Handbook.*

An excellent source of selection and distribution criteria is found in the National Fire Protection Association's Standard No. 10. Other sources of information include the National Safety Council and the employer's fire insurance carrier.

(5) Substitution of standpipe systems for portable fire extinguishers. The employer is permitted to substitute acceptable standpipe systems for portable fire extinguishers under certain circumstances. It is necessary to assure that any substitution will provide the same coverage that portable units provide. This means that fire hoses, because of their limited portability, must be spaced throughout the protected area so that they can reach around obstructions such as columns, machinery, etc., and so that they can reach into closets and other enclosed areas.

(6) Inspection, maintenance and testing. The ultimate responsibility for the inspection, maintenance and testing of portable fire extinguishers lies with the employer. The actual inspection, maintenance, and testing may, however, be conducted by outside contractors with whom the employer has arranged to do the work. When contracting for such work, the employer should assure that the contractor is capable of performing the work that is needed to comply with this standard.

If the employer should elect to perform the inspection, maintenance, and testing requirements of this section inhouse, then the employer must make sure that those persons doing the work have been trained to do the work and to recognize problem areas which could cause an extinguisher to be inoperable. The National Fire Protection Association provides excellent guidelines in its standard for portable fire extinguishers. The employer may also check with the manufacturer of the unit that has been purchased and obtain guidelines on inspection, maintenance, and testing. Hydrostatic testing is a process that should be left to contractors or individuals using suitable facilities and having the training necessary to perform the work.

Any time the employer has removed an extinguisher from service to be checked or repaired, alternate equivalent protection must be provided. Alternate equivalent protection could include replacing the extinguisher with one or more units having equivalent or equal ratings, posting a fire watch, restricting the unprotected area from employee exposure, or providing a hose system ready to operate.

(7) Hydrostatic testing. As stated before, the employer may contract for hydrostatic testing. However, if the employer wishes to provide the testing service, certain equipment and facilities must be available. Employees should be made aware of the hazards associated with hydrostatic testing and the importance of using proper guards and water pressures. Severe injury can result if extinguisher shells fail violently under hydrostatic pressure.

Employers are encouraged to use contractors who can perform adequate and reliable service. Firms which have been certified by the Materials Transportation Board (MTB) of the United States Department of Transportation (DOT), or state licensed extinguisher servicing firms, or recognized by the National Association of Fire Equipment Distributors in Chicago, Illinois, are generally acceptable for performing this service.

(8) Training and education. This part of the standard is of the utmost importance to employers and employees if the risk of injury or death due to extinguisher use is to be reduced. If an employer is going to permit an employee to fight a workplace fire of any size, the employer must make sure that the employee knows everything necessary to assure the employee's safety.

Training and education can be obtained through many channels. Often, local fire departments in larger cities have fire prevention bureaus or similar organizations which can provide basic fire prevention training programs. Fire insurance companies will have data and information available. The National Fire Protection Association and the National Safety Council will provide, at a small cost, publications that can be used in a fire prevention program.

Actual fire fighting training can be obtained from various sources in the country. The Texas A and M University, the University of Maryland's Fire and Rescue Institute, West Virginia University's Fire Service Extension, Iowa State University's Fire Service Extension and other state training schools and land grant colleges have fire fighting programs directed to industrial applications. Some manufacturers of extinguishers, such as the Ansul Company and Safety First, conduct fire schools for customers in the proper use of extinguishers. Several large corporations have taken time to develop their own on-site training programs which expose employees to the actual "feeling" of fire fighting. Simulated fires for training of employees in the proper use of extinguishers are also an acceptable part of a training program.

In meeting the requirements of this section, the employer may also provide educational materials, without classroom instruction, through the use of employee notice campaigns using instruction sheets or flyers or similar types of informal programs. The employer must make sure that employees are trained and educated to recognize not only what type of fire is being fought and how to fight it, but also when it is time to get away from it and leave fire suppression to more experienced fire fighters.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-59215, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-59215, filed 12/24/81.]

WAC 296-24-602 Standpipe and hose systems. This section establishes design and installation criteria for standpipe systems.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-602, filed 12/24/81.]

WAC 296-24-60201 Scope and application. (1) Scope. This section applies to all small hose, Class II and Class III standpipe systems installed to meet the requirements of a particular WISHA standard.

(2) Exception. This section does not apply to Class I standpipe systems.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60201, filed 12/24/81.]

WAC 296-24-60203 Protection of standpipes. The employer shall assure that standpipes are located or otherwise

protected against mechanical damage. Damaged standpipes shall be repaired promptly.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60203, filed 12/24/81.]

WAC 296-24-60205 Equipment. (1) Reels and cabinets. Where reels or cabinets are provided to contain fire hose, the employer shall assure that they are designed to facilitate prompt use of the hose valves, the hose, and other equipment at the time of a fire or other emergency. The employer shall assure that the reels and cabinets are conspicuously identified and used only for fire equipment.

(2) Hose outlets and connections.

(a) The employer shall assure that hose outlets and connections are located high enough above the floor to avoid being obstructed and to be accessible to employees.

(b) The employer shall standardize screw threads or provide appropriate adapters throughout the system and assure that the hose connections are compatible with those used on the supporting fire equipment.

(3) Hose.

(a) The employer shall assure that every one and one-half inch (3.8 cm) or smaller hose outlet used to meet this standard is equipped with hose connected and ready for use. In extremely cold climates where such installation may result in damaged equipment, the hose may be stored in another location provided it is readily available and can be connected when needed.

(b) Standpipe systems installed after July 1, 1982, for use by employees, shall be equipped with lined hose. Unlined hose may remain in use on existing systems. However, after the effective date of this standard, unlined hose which becomes unserviceable shall be replaced with lined hose.

(c) Beginning July 1, 1982, the employer shall provide hose of such length that friction loss resulting from water flowing through the hose will not decrease the pressure at the nozzle below 30 psi (210 kPa). The dynamic pressure at the nozzle shall be within the range of 30 psi (210 kPa) to 125 psi (860 kPa).

(4) Nozzles. Beginning July 1, 1982, the employer shall assure that standpipe hose is equipped with shut-off type nozzles.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60205, filed 12/24/81.]

WAC 296-24-60207 Water supply. The minimum water supply for standpipe and hose systems, which are provided for the use of employees, shall be sufficient to provide 100 gallons per minute (6.3 l/s) for a period of at least thirty minutes.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60207, filed 12/24/81.]

WAC 296-24-60209 Tests and maintenance. (1) Acceptance tests.

(a) The employer shall assure that the piping of Class II and Class III systems installed after July 1, 1982, including yard piping, is hydrostatically tested for a period of at least two hours at not less than 200 psi (1, 380 kPa), or at least 50 psi (340 kPa) in excess of normal pressure when such pressure is greater than 150 psi (1,030 kPa).

(b) The employer shall assure that hose on all standpipe systems installed after July 1, 1982, is hydrostatically tested with couplings in place, at a pressure of not less than 200 psi (1, 380 kPa), before it is placed in service. This pressure shall be maintained for at least fifteen seconds and not more than one minute during which time the hose shall not leak nor shall any jacket thread break during the test.

(2) Maintenance.

(a) The employer shall assure that water supply tanks are kept filled to the proper level except during repairs. When pressure tanks are used, the employer shall assure that proper pressure is maintained at all times except during repairs.

(b) The employer shall assure that valves in the main piping connections to the automatic sources of water supply are kept fully open at all times except during repair.

(c) The employer shall assure that hose systems are inspected at least annually and after each use to assure that all of the equipment and hose are in place, available for use, and in serviceable condition.

(d) When the system or any portion thereof is found not to be serviceable, the employer shall remove it from service immediately and replace it with equivalent protection such as extinguishers and fire watches.

(e) The employer shall assure that hemp or linen hose on existing systems is unracked, physically inspected for deterioration, and reracked using a different fold pattern at least annually. The employer shall assure that defective hose is replaced in accordance with WAC 296-24-60205 (3)(b).

(f) The employer shall designate trained persons to conduct all inspections required under this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60209, filed 12/24/81.]

WAC 296-24-60299 Appendix A—Standpipe and hose systems. (1) Scope and application. This section has been written to provide adequate coverage of those standpipe and hose systems that an employer may install in the workplace to meet the requirements of a particular WISHA standard. For example, WISHA permits the substitution of hose systems for portable fire extinguishers in WAC 296-24-592. If an employer chooses to provide hose systems instead of portable Class A fire extinguishers, then those hose systems used for substitution would have to meet the applicable requirements of WAC 296-24-592. All other standpipe and hose systems not used as a substitute would be exempt from these requirements.

The section specifically exempts Class I large hose systems. By large hose systems, WISHA means those two and one-half inch hose lines that are usually associated with fire departments of the size that provide their own water supply through fire apparatus. When the fire gets to the size that outside protection of that degree is necessary, WISHA believes that in most industries employees will have been evacuated from the fire area and the "professional" fire fighters will take control.

(2) Protection of standpipes. Employers must make sure that standpipes are protected so that they can be relied upon during a fire emergency. This means protecting the pipes

from mechanical and physical damage. There are various means for protecting the equipment such as, but not limited to, enclosing the supply piping in the construction of the building, locating the standpipe in an area which is inaccessible to vehicles, or locating the standpipe in a stairwell.

(3) Hose covers and cabinets. The employer should keep fire protection hose equipment in cabinets or inside protective covers which will protect it from the weather elements, dirt or other damaging sources. The use of protective covers must be easily removed or opened to assure that hose and nozzle are accessible. When the employer places hose in a cabinet, the employer must make sure that the hose and nozzle are accessible to employees without subjecting them to injury. In order to make sure that the equipment is readily accessible, the employer must also make sure that the cabinets used to store equipment are kept free of obstructions and other equipment which may interfere with the fast distribution of the fire hose stored in the cabinet.

(4) Hose outlets and connections. The employer must assure that employees who use standpipe and hose systems can reach the hose rack and hose valve without the use of portable equipment such as ladders. Hose reels are encouraged for use because one employee can retrieve the hose, charge it, and place it into service without much difficulty.

(5) Hose. When the employer elects to provide small hose in lieu of portable fire extinguishers, those hose stations being used for the substitution must have hose attached and ready for service. However, if more than the necessary amount of small hose outlets are provided, hose does not have to be attached to those outlets that would provide redundant coverage. Further, where the installation of hose on outlets may expose the hose to extremely cold climates, the employer may store the hose in houses or similar protective areas and connect it to the outlet when needed.

There is approved lined hose available that can be used to replace unlined hose which is stored on racks in cabinets. The lined hose is constructed so that it can be folded and placed in cabinets in the same manner as unlined hose.

Hose is considered to be unserviceable when it deteriorates to the extent that it can no longer carry water at the required pressure and flow rates. Dry rotted linen or hemp hose, cross threaded couplings, and punctured hose are examples of unserviceable hose.

(6) Nozzles. Variable stream nozzles can provide useful variations in water flow and spray patterns during fire fighting operations and they are recommended for employee use. It is recommended that 100 psi nozzle pressure be used to provide good flow patterns for variable stream nozzles. The most desirable attribute for nozzles is the ability of the nozzle person to shut off the water flow at the nozzle when it is necessary. This can be accomplished in many ways. For example, a shut-off nozzle with a lever or rotation of the nozzle to stop flow would be effective, but in other cases a simple globe valve placed between a straight stream nozzle and the hose could serve the same purpose. For straight stream nozzles, 50 psi nozzle pressure is recommended. The intent of the standard is to protect the employee from "run-away" hoses if it becomes necessary to drop a pressurized hose line and retreat from the fire front and other related hazards.

(7) Design and installation. Standpipe and hose systems designed and installed in accordance with NFPA Standard No. 14-1976, "Standpipe and Hose Systems, " are considered to be in compliance with this standard.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60299, filed 12/24/81.]

WAC 296-24-607 Automatic sprinkler systems. The design and installation criteria for automatic sprinkler systems is contained in this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-607, filed 12/24/81.]

WAC 296-24-60701 Scope and application. (1) The requirements of this section apply to all automatic sprinkler systems installed to meet a particular WISHA standard.

(2) For automatic sprinkler systems used to meet WISHA requirements and installed prior to the effective date of this standard, compliance with the National Fire Protection Association (NFPA) or the National Board of Fire Underwriters (NBFU) standard in effect at the time of the system's installation will be acceptable as compliance with this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60701, filed 12/24/81.]

WAC 296-24-60703 Exemptions. Automatic sprinkler systems installed in workplaces, but not required by WISHA are exempt from the requirements of this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60703, filed 12/24/81.]

WAC 296-24-60705 General requirements. (1) Design.

(a) All automatic sprinkler designs used to comply with this standard shall provide the necessary discharge patterns, densities, and water flow characteristics for complete coverage in a particular workplace or zoned subdivision of the workplace.

(b) The employer shall assure that only approved equipment and devices are used in the design and installation of automatic sprinkler systems used to comply with this standard.

(2) Maintenance. The employer shall properly maintain an automatic sprinkler system installed to comply with this section. The employer shall assure that a main drain flow test is performed on each system annually. The inspector's test valve shall be opened at least every two years to assure that the sprinkler system operates properly.

(3) Acceptance tests. The employer shall conduct proper acceptance tests on sprinkler systems installed for employee protection after July 1, 1982, and record the dates of such tests. Proper acceptance tests include the following:

(a) Flushing of underground connections;

(b) Hydrostatic tests of piping in system;

(c) Air tests in dry-pipe systems;

(d) Dry-pipe valve operation; and

(e) Test of drainage facilities.

(4) Water supplies. The employer shall assure that every automatic sprinkler system is provided with at least one auto-

matic water supply capable of providing design water flow for at least thirty minutes. An auxiliary water supply or equivalent protection shall be provided when the automatic water supply is out of service, except for systems of twenty or fewer sprinklers.

(5) Hose connections for fire fighting use. The employer may attach hose connections for fire fighting use to wet pipe sprinkler systems provided that the water supply satisfies the combined design demand for sprinklers and standpipes.

(6) Protection of piping. The employer shall assure that automatic sprinkler system piping is protected against freezing and exterior surface corrosions.

(7) Drainage. The employer shall assure that all dry sprinkler pipes and fittings are installed so that the systems may be totally drained.

(8) Sprinklers.

(a) The employer shall assure that only approved sprinklers are used on systems.

(b) The employer may not use older style sprinklers to replace standard sprinklers without a complete engineering review of the altered part of the system.

(c) The employer shall assure that sprinklers are protected from mechanical damage.

(9) Sprinkler alarms. On all sprinkler systems having more than twenty sprinklers, the employer shall assure that a local water-flow alarm is provided which sounds an audible signal on the premises upon water flow through the system equal to the flow from a single sprinkler.

(10) Sprinkler spacing. The employer shall assure that sprinklers are spaced to provide a maximum protection area per sprinkler, a minimum of interference to the discharge pattern by building or structural members or building contents and suitable sensitivity to possible fire hazards. The minimum vertical clearance between sprinklers and material below shall be eighteen inches.

(11) Hydraulically designed systems. The employer shall assure that hydraulically designed automatic sprinkler systems or portions thereof are identified and that the location, number of sprinklers in the hydraulically designed section, and the basis of the design is indicated. Central records may be used in lieu of signs at sprinkler valves provided the records are available for inspection and copying by the director.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60705, filed 12/24/81.]

WAC 296-24-60799 Appendix A—Automatic sprinkler systems. (1) Scope and application. This section contains the minimum requirements for design, installation and maintenance of sprinkler systems that are needed for employee safety. The occupational safety and health administration is aware of the fact that the National Board of Fire Underwriters is no longer an active organization, however, sprinkler systems still exist that were designed and installed in accordance with that organization's standards. Therefore, WISHA will recognize sprinkler systems designed to, and maintained in accordance with, NBFU and earlier NFPA standards.

(2) Exemptions. In an effort to assure that employers will continue to use automatic sprinkler systems as the primary fire protection system in workplaces, WISHA is exempting from coverage those systems not required by a particular WISHA standard and which have been installed in workplaces solely for the purpose of protecting property. Many of these types of systems are installed in areas or buildings with little or no employee exposure. An example is those warehouses where employees may enter occasionally to take inventory or move stock. Some employers may choose to shut down those systems which are not specifically required by WISHA rather than upgrade them to comply with the standards. WISHA does not intend to regulate such systems. WISHA only intends to regulate those systems which are installed to comply with a particular WISHA standard.

(3) Design. There are two basic types of sprinkler system design. Pipe schedule designed systems are based on pipe schedule tables developed to protect hazards with standard sized pipe, number of sprinklers, and pipe lengths. Hydraulic designed systems are based on an engineered design of pipe size which will produce a given water density or flow rate at any particular point in the system. Either design can be used to comply with this standard.

The National Fire Protection Association's Standard No. 13, "Automatic Sprinkler Systems, " contains the tables needed to design and install either type of system. Minimum water supplies, densities, and pipe sizes are given for all types of occupancies.

The employer may check with a reputable fire protection engineering consultant or sprinkler design company when evaluating existing systems or designing a new installation.

With the advent of new construction materials for the manufacture of sprinkler pipe, materials, other than steel, have been approved for use as sprinkler pipe. Selection of pipe material should be made on the basis of the type of installation and the acceptability of the material to local fire and building officials where such systems may serve more than one purpose.

Before new sprinkler systems are placed into service, an acceptance test is to be conducted. The employer should invite the installer, designer, insurance representative, and a local fire official to witness the test. Problems found during the test are to be corrected before the system is placed into service.

(4) Maintenance. It is important that any sprinkler system maintenance be done only when there is minimal employee exposure to the fire hazard. For example, if repairs or changes to the system are to be made, they should be made during those hours when employees are not working or are not occupying that portion of the workplace protected by the portion of the system which has been shut down.

The procedures for performing a flow test via a main drain test or by the use of an inspector's test valve can be obtained from the employer's fire insurance company or from the National Fire Protection Association's Standard No. 13A, "Sprinkler System, Maintenance."

(5) Water supplies. The water supply to a sprinkler system is one of the most important factors an employer should consider when evaluating a system. Obviously, if there is no water supply, the system is useless. Water supplies can be lost for various reasons such as improperly closed valves, excessive demand, broken water mains, and broken fire

pumps. The employer must be able to determine if or when this type of condition exists either by performing a main drain test or visual inspection. Another problem may be an inadequate water supply. For example, a light hazard occupancy may, through rehabilitation or change in tenants, become an ordinary or high hazard occupancy. In such cases, the exiting water supply may not be able to provide the pressure or duration necessary for proper protection. Employers must assure that proper design and tests have been made to assure an adequate water supply. These tests can be arranged through the employer's fire insurance carrier or through a local sprinkler maintenance company or through the local fire prevention organization.

Any time the employer must shut down the primary water supply for a sprinkler system, the standard requires that equivalent protection be provided. Equivalent protection may include a fire watch with extinguishers or hose lines in place and manned, or a secondary water supply such as a tank truck and pump, or a tank or fire pond with fire pumps, to protect the areas where the primary water supply is limited or shut down. The employer may also require evacuation of the workplace and have an emergency action plan which specifies such action.

(6) Protection of piping. Piping which is exposed to corrosive atmospheres, either chemical or natural, can become defective to the extent that it is useless. Employers must assure that piping is protected from corrosion by its material of construction, e.g., stainless steel, or by a protective coating, e.g., paint.

(7) Sprinklers. When an employer finds it necessary to replace sprinkler system components or otherwise change a sprinkler's design, employer should make a complete fire protection engineering survey of that part of the system being changed. This review should assure that the changes to the system will not alter the effectiveness of the system as it is presently designed. Water supplies, densities and flow characteristics should be maintained.

(8) Protection of sprinklers. All components of the system must be protected from mechanical impact damage. This can be achieved with the use of mechanical guards or screens or by locating components in areas where physical contact is impossible or limited.

(9) Sprinkler alarms. The most recognized sprinkler alarm is the water-motor gong or bell that sounds when water begins to flow through the system. This is not however, the only type of acceptable water flow alarm. Any alarm that gives an indication that water is flowing through the system is acceptable. For example, a siren, a whistle, a flashing light, or similar alerting device which can transmit a signal to the necessary persons would be acceptable. The purpose of the alarm is to alert persons that the system is operating, and that some type of planned action is necessary.

(10) Sprinkler spacing. For a sprinkler system to be effective there must be an adequate discharge of water spray from the sprinkler head. Any obstructions which hinder the designed density or spray pattern of the water may create unprotected areas which can cause fire to spread. There are some sprinklers that, because of the system's design, are deflected to specific areas. This type of obstruction is acceptable if the system's design takes it into consideration in providing adequate coverage.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-60799, filed 12/24/81.]

WAC 296-24-617 Fixed extinguishing systems, general. This section applies to criteria required for fixed extinguisher systems and all sections of this chapter having number WAC 296-24-617 in the section number shall apply.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-617, filed 12/24/81.]

WAC 296-24-61701 Scope and application. (1) This section applies to all fixed extinguishing systems installed to meet a particular WISHA standard except for automatic sprinkler systems which are covered by WAC 296-24-607.

(2) This section also applies to fixed systems not installed to meet a particular WISHA standard, but which, by means of their operation, may expose employees to possible injury, death, or adverse health consequences caused by the extinguishing agent. Such systems are only subject to the requirements of WAC 296-24-61703 (4) through (7) and 296-24-61705.

(3) Systems otherwise covered in subsection (2) of this section which are installed in areas with no employee exposure are exempted from the requirements of this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-61701, filed 12/24/81.]

WAC 296-24-61703 General requirements. (1) Fixed extinguishing system components and agents shall be designed and approved for use on the specific fire hazards they are expected to control or extinguish.

(2) If for any reason a fixed extinguishing system becomes inoperable, the employer shall notify employees and take the necessary temporary precautions to assure their safety until the system is restored to operating order. Any defects or impairments shall be properly corrected by trained personnel.

(3) The employer shall provide a distinctive alarm or signaling system which complies with WAC 296-24-631, and is capable of being perceived above ambient noise or light levels, on all extinguishing systems in those portions of the workplace covered by the extinguishing system to indicate when the extinguishing system is discharging. Discharge alarms are not required on systems where discharge is immediately recognizable.

(4) The employer shall provide effective safeguards to warn employees against entry into discharge areas where the atmosphere remains hazardous to employee safety or health.

(5) The employer shall post hazard warning or caution signs at the entrance to, and inside of, areas protected by fixed extinguishing systems which use agents in concentrations known to be hazardous to employee safety and health.

(6) The employer shall assure that fixed systems are inspected annually by a person knowledgeable in the design and function of the system to assure that the system is maintained in good operating condition.

(7) The employer shall assure that the weight and pressure of refillable containers is checked at least semiannually.

If the container shows a loss in net content or weight of more than five percent, or a loss in pressure of more than ten percent, it shall be subjected to maintenance.

(8) The employer shall assure that factory charged nonrefillable containers which have no means of pressure indication are weighed at least semiannually. If a container shows a loss in net weight of more than five percent it shall be replaced.

(9) The employer shall assure that inspection and maintenance dates are recorded on the container, on a tag attached to the container, or in a central location. A record of the last semiannual check shall be maintained until the container is checked again or for the life of the container, whichever is less.

(10) The employer shall train employees designated to inspect, maintain, operate, or repair fixed extinguishing systems and annually review their training to keep them up-to-date in the functions they are to perform.

(11) The employer shall not use chlorobromomethane or carbon tetrachloride as an extinguishing agent where employees may be exposed.

(12) The employer shall assure that systems installed in the presence of corrosive atmospheres are constructed of noncorrosive material or otherwise protected against corrosion.

(13) Automatic detection equipment shall be approved, installed and maintained in accordance with WAC 296-24-629.

(14) The employer shall assure that all systems designed for and installed in areas with climatic extremes shall operate effectively at the expected extreme temperatures.

(15) The employer shall assure that at least one manual station is provided for discharge activation of each fixed extinguishing system.

(16) The employer shall assure that manual operating devices are identified as to the hazard against which they will provide protection.

(17) The employer shall provide and assure the use of the personal protective equipment needed for immediate rescue of employees trapped in hazardous atmospheres created by an agent discharge.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-61703, filed 12/24/81.]

WAC 296-24-61705 Total flooding systems with potential health and safety hazards to employees. (1) The employer shall provide an emergency action plan in accordance with WAC 296-24-567 for each area within a workplace that is protected by a total flooding system which provides agent concentrations exceeding the maximum safe levels.

(2) Systems installed in areas where employees cannot enter during or after the system's operation are exempt from the requirements of this section.

(3) On all total flooding systems the employer shall provide a predischarge employee alarm which complies with WAC 296-24-631, and is capable of being perceived above ambient light or noise levels before the system discharges, which will give employees time to safely exit from the discharge area prior to system discharge.

(4) The employer shall provide automatic actuation of total flooding systems by means of an approved fire detection device installed and interconnected with a predischarge employee alarm system to give employees time to safely exit from the discharge area prior to system discharge.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-61705, filed 12/24/81.]

WAC 296-24-61799 Appendix A—Fixed extinguishing systems, general. (1) Scope and application. This section contains the general requirements that are applicable to all fixed extinguishing systems installed to meet WISHA standards. It also applies to those fixed extinguishing systems, generally total flooding, which are not required by WISHA, but which, because of the agent's discharge, may expose employees to hazardous concentrations of extinguishing agents or combustion byproducts. Employees who work around fixed extinguishing systems must be warned of the possible hazards associated with the system and its agent. For example, fixed dry chemical extinguishing systems may generate a large enough cloud of dry chemical particles that employees may become visually disoriented. Certain gaseous agents can expose employees to hazardous byproducts of combustion when the agent comes into contact with hot metal or other hot surface. Some gaseous agents may be present in hazardous concentrations when the system has totally discharged because an extra rich concentration is necessary to extinguish deep-seated fires. Certain local application systems may be designed to discharge onto the flaming surface of a liquid, and it is possible that the liquid can splatter when hit with the discharging agent. All of these hazards must be determined before the system is placed into operation, and must be discussed with employees.

Based on the known toxicological effects of agents such as carbon tetrachloride and chlorobromomethane, WISHA is not permitting the use of these agents in areas where employees can be exposed to the agent or its side effects. However, chlorobromomethane has been accepted and may be used as an explosion suppression agent in unoccupied spaces. WISHA is permitting the use of this agent only in areas where employees will not be exposed.

(2) Distinctive alarm signals. A distinctive alarm signal is required to indicate that a fixed system is discharging. Such a signal is necessary on those systems where it is not immediately apparent that the system is discharging. For example, certain gaseous agents make a loud noise when they discharge. In this case, no alarm signal is necessary. However, where systems are located in remote locations or away from the general work area and where it is possible that a system could discharge without anyone knowing that it is doing so, then a distinctive alarm is necessary to warn employees of the hazards that may exist. The alarm can be a bell, gong, whistle, horn, flashing light, or any combination of signals as long as it is identifiable as a discharge alarm.

(3) Maintenance. The employer is responsible for the maintenance of all fixed systems, but this responsibility does not preclude the use of outside contractors to do such work. New systems should be subjected to an acceptance test before placed in service. The employer should invite the installer, designer, insurance representative and others to witness the

test. Problems found during the test need to be corrected before the system is considered operational.

(4) Manual discharge stations. There are instances, such as for mechanical reasons and others, where the standards call for a manual backup activation device. While the location of this device is not specified in the standard, the employer should assume that the device should be located where employees can easily reach it. It could, for example, be located along the main means of egress from the protected area so that employees could activate the system as they evacuate the work area.

(5) Personal protective equipment. The employer is required to provide the necessary personal protective equipment to rescue employees who may be trapped in a totally flooded environment which may be hazardous to their health. The equipment would normally include a positive-pressure self-contained breathing apparatus and any necessary first aid equipment. In cases where the employer can assure the prompt arrival of the local fire department or plant emergency personnel which can provide the equipment, this can be considered as complying with the standards.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-61799, filed 12/24/81.]

WAC 296-24-622 Fixed extinguishing systems, dry chemical. The design and installation requirements specifically applicable to fixed extinguishing systems, using dry chemical as the extinguishing agent, are contained in this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-622, filed 12/24/81.]

WAC 296-24-62201 Scope and application. This section applies to all fixed extinguishing systems using dry chemical as the extinguishing agent, installed to meet a particular WISHA standard. These systems shall also comply with WAC 296-24-617.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62201, filed 12/24/81.]

WAC 296-24-62203 Specific requirements. (1) The employer shall assure that dry chemical agents are compatible with any foams or wetting agents with which they are used.

(2) The employer may not mix together dry chemical extinguishing agents of different compositions. The employer shall assure that dry chemical systems are refilled with the chemical stated on the approval nameplate or an equivalent compatible material.

(3) When dry chemical discharge may obscure vision, the employer shall provide a predischarge employee alarm which complies with WAC 296-24-631, and which will give employees time to safely exit from the discharge area prior to system discharge.

(4) The employer shall sample the dry chemical supply of all but stored pressure systems at least annually to assure that the dry chemical supply is free of moisture which may cause the supply to cake or form lumps.

(5) The employer shall assure that the rate of application of dry chemicals is such that the designed concentration of the system will be reached within thirty seconds of initial discharge.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62203, filed 12/24/81.]

WAC 296-24-62299 Appendix A—Fixed extinguishing systems, dry chemical. (1) Scope and application. The requirements of this section apply only to dry chemical systems. These requirements are to be used in conjunction with the requirements of WAC 296-24-617.

(2) Maintenance. The employer is responsible for assuring that dry chemical systems will operate effectively. To do this, periodic maintenance is necessary. One test that must be conducted during the maintenance check is one which will determine if the agent has remained free of moisture. If an agent absorbs any moisture, it may tend to cake and thereby clog the system. An easy test for acceptable moisture content is to take a lump of dry chemical from the container and drop it from a height of four inches. If the lump crumbles into fine particles, the agent is acceptable.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62299, filed 12/24/81.]

WAC 296-24-623 Fixed extinguishing systems, gaseous agent. This section contains the design and installation requirements for fixed extinguishing systems using gaseous agents.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-623, filed 12/24/81.]

WAC 296-24-62301 Scope and application. (1) Scope. This section applies to all fixed extinguishing systems, using a gas as the extinguishing agent, installed to meet a particular WISHA standard. These systems shall also comply with WAC 296-24-617. In some cases, the gas may be in a liquid state during storage.

(2) Application. The requirements of WAC 296-24-61703 (2) and (4) through (7) shall apply only to total flooding systems.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62301, filed 12/24/81.]

WAC 296-24-62303 Specific requirements. (1) Agents used for initial supply and replenishment shall be of the type approved for the system's application. Carbon dioxide obtained by dry ice conversion to liquid is not acceptable unless it is processed to remove excess water and oil.

(2) Except during overhaul, the employer shall assure that the designed concentration of gaseous agents is maintained until the fire has been extinguished or is under control.

(3) The employer shall assure that employees are not exposed to toxic levels of gaseous agent or its decomposition products.

(4) The employer shall assure that the designed extinguishing concentration is reached within thirty seconds of initial discharge except for Halon systems which must achieve design concentration within ten seconds.

(5) The employer shall provide a distinctive predischarge employee alarm capable of being perceived above ambient light or noise levels when agent design concentra-

tions exceed the maximum safe level for employee exposure. A predischarge employee alarm for alerting employees before system discharge shall be provided on Halon 1211 and carbon dioxide systems with a design concentration of four percent or greater, and for Halon 1301 systems with a design concentration of ten percent or greater. The predischarge employee alarm shall provide employees time to safely exit the discharge area prior to system discharge.

(6)(a) Where egress from an area cannot be accomplished within one minute, the employer shall not use Halon 1301 in concentrations greater than seven percent.

(b) Where egress takes greater than thirty seconds but less than one minute, the employer shall not use Halon 1301 in a concentration greater than ten percent.

(c) Halon 1301 concentrations greater than ten percent are only permitted in areas not normally occupied by employees provided that any employee in the area can escape within thirty seconds. The employer shall assure that no unprotected employees enter the area during agent discharge.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62303, filed 12/24/81.]

WAC 296-24-62399 Appendix A—Fixed extinguishing systems, gaseous agent. (1) Scope and application. This section applies only to those systems which use gaseous agents. The requirements of WAC 296-24-617 also apply to the gaseous agent systems covered in this section.

(2) Design concentrations. Total flooding gaseous systems are based on the volume of gas which must be discharged in order to produce a certain designed concentration of gas in an enclosed area. The concentration needed to extinguish a fire depends on several factors including the type of fire hazard and the amount of gas expected to leak away from the area during discharge. At times it is necessary to "supersaturate" a work area to provide for expected leakage from the enclosed area. In such cases, employers must assure that the flooded area has been ventilated before employees are permitted to reenter the work area without protective clothing and respirators.

(3) Toxic decomposition. Certain halogenated hydrocarbons will break down or decompose when they are combined with high temperatures found in the fire environment. The products of the decomposition can include toxic elements or compounds. For example, when Halon 1211 is placed into contact with hot metal it will break down and form bromide or fluoride fumes. The employer must find out which toxic products may result from decomposition of a particular agent from the manufacturer, and take the necessary precautions to prevent employee exposure to the hazard.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62399, filed 12/24/81.]

WAC 296-24-627 Fixed extinguishing systems, water spray and foam. This section contains the design and installation requirements for extinguishing systems using water or foam solution as the extinguishing agent.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-627, filed 12/24/81.]

WAC 296-24-62701 Scope and application. This section applies to all fixed extinguishing systems, using water or foam solution as the extinguishing agent, installed to meet a particular WISHA standard. These systems shall also comply with WAC 296-24-617. This section does not apply to automatic sprinkler systems which are covered under WAC 296-24-607.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62701, filed 12/24/81.]

WAC 296-24-62703 Specific requirements. (1) The employer shall assure that foam and water spray systems are designed to be effective in at least controlling fire in the protected area or on protected equipment.

(2) The employer shall assure that drainage of water spray systems is directed away from areas where employees are working and that no emergency egress is permitted through the drainage path.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62703, filed 12/24/81.]

WAC 296-24-62799 Appendix A—Fixed extinguishing systems, water spray and foam. (1) Scope and application. This section applies to those systems that use water spray or foam. The requirements of WAC 296-24-617 also apply to this type of system.

(2) Characteristics of foams. When selecting the type of foam for a specific hazard, the employer should consider the following limitations of some foams.

(a) Some foams are not acceptable for use on fires involving flammable gases and liquefied gases with boiling points below ambient workplace temperatures. Other foams are not effective when used on fires involving polar solvent liquids.

(b) Any agent using water as part of the mixture should not be used on fire involving combustible metals unless it is applied under proper conditions to reduce the temperature of burning metal below the ignition temperature. The employer should use only those foams that have been tested and accepted for this application by a recognized independent testing laboratory.

(c) Certain types of foams may be incompatible and break down when they are mixed together.

(d) For fires involving water miscible solvents, employers should use only those foams tested and approved for such use. Regular protein foams may not be effective on such solvents.

Whenever employers provide a foam or water spray system, drainage facilities must be provided to carry contaminated water or foam overflow away from the employee work area and egress routes. This drainage system should drain to a central impounding area where it can be collected and disposed of properly. Other government agencies may have regulations concerning environmental considerations.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62799, filed 12/24/81.]

WAC 296-24-629 Fire detection systems. The requirements for installation, restoration, maintenance, testing and

protection of fire detection systems and the criteria for response time can be found in this section.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-629, filed 12/24/81.]

WAC 296-24-62901 Scope and application. This section applies to all automatic fire detection systems installed to meet the requirements of a particular WISHA standard.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62901, filed 12/24/81.]

WAC 296-24-62903 Installation and restoration. (1) The employer shall assure that all devices and equipment constructed and installed to comply with this standard are approved for the purpose for which they are intended.

(2) The employer shall restore all fire detection systems and components to normal operating condition as promptly as possible after each test or alarm. Spare detection devices and components which are normally destroyed in the process of detecting fires shall be available on the premises or from a local supplier in sufficient quantities and locations for prompt restoration of the system.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62903, filed 12/24/81.]

WAC 296-24-62905 Maintenance and testing. (1) The employer shall maintain all systems in an operable condition except during repairs or maintenance.

(2) The employer shall assure that fire detectors and fire detection systems are tested and adjusted as often as needed to maintain proper reliability and operating condition except that factory calibrated detectors need not be adjusted after installation.

(3) The employer shall assure that pneumatic and hydraulic operated detection systems installed after July 1, 1982, are equipped with supervised systems.

(4) The employer shall assure that the servicing, maintenance and testing of fire detection systems, including cleaning and necessary sensitivity adjustments are performed by a trained person knowledgeable in the operations and functions of the system.

(5) The employer shall also assure that fire detectors that need to be cleaned of dirt, dust, or other particulates in order to be fully operational are cleaned at regular periodic intervals.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62905, filed 12/24/81.]

WAC 296-24-62907 Protection of fire detectors. (1) The employer shall assure that fire detection equipment installed outdoors or in the presence of corrosive atmospheres be protected from corrosion. The employer shall provide a canopy, hood, or other suitable protection for detection equipment requiring protection from the weather.

(2) The employer shall locate or otherwise protect detection equipment so that it is protected from mechanical or physical impact which might render it inoperable.

(3) The employer shall assure that detectors are supported independently of their attachment to wires or tubing.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62907, filed 12/24/81.]

WAC 296-24-62909 Response time. (1) The employer shall assure that fire detection systems installed for the purpose of actuating fire extinguishment or suppression systems shall be designed to operate in time to control or extinguish a fire.

(2) The employer shall assure that fire detection systems installed for the purpose of employee alarm and evacuation be designed and installed to provide a warning for emergency action and safe escape of employees.

(3) The employer shall not delay alarms or devices initiated by fire detector actuation for more than thirty seconds unless such delay is necessary for the immediate safety of employees. When such delay is necessary, it shall be addressed in an emergency action plan meeting the requirements of WAC 296-24-567.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62909, filed 12/24/81.]

WAC 296-24-62911 Number, location and spacing of detecting devices. The employer shall assure that the number, spacing and location of fire detectors is based upon design data obtained from field experience, or tests, engineering surveys, the manufacturer's recommendations, or a recognized testing laboratory listing.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62911, filed 12/24/81.]

WAC 296-24-62999 Appendix A—Fire detection systems. (1) Installation and restoration. Fire detection systems must be designed by knowledgeable engineers or other professionals, with expertise in fire detection systems and when the systems are installed, there should be an acceptance test performed on the system to insure it operates properly. The manufacturer's recommendations for system design should be consulted. While entire systems may not be approved, each component used in the system is required to be approved. Custom fire detection systems should be designed by knowledgeable fire protection or electrical engineers who are familiar with the workplace hazards and conditions. Some systems may only have one or two individual detectors for a small workplace, but good design and installation is still important. An acceptance test should be performed on all systems, including these smaller systems.

WISHA has a requirement that spare components used to replace those which may be destroyed during an alarm situation be available in sufficient quantities and locations for prompt restoration of the system. This does not mean that the parts or components have to be stored at the workplace. If the employer can assure that the supply of parts is available in the local community or the general metropolitan area of the workplace, then the requirements for storage and availability have been met. The intent is to make sure that the alarm system is fully operational when employees are occupying the workplace, and that when the system operates it can be returned to full service the next day or sooner.

(2) Supervision. Fire detection systems should be supervised. The object of supervision is detection of any failure of

the circuitry, and the employer should use any method that will assure that the system's circuits are operational. Electrically operated sensors for air pressure, fluid pressure, or electrical circuits, can provide effective monitoring and are the typical types of supervision.

(3) Protection of fire detectors. Fire detectors must be protected from corrosion either by protective coating, by being manufactured from noncorrosive materials or by location. Detectors must also be protected from mechanical impact damage, either by suitable cages or metal guards where such hazards are present, or by locating them above or out of contact with materials or equipment which may cause damage.

(4) Number, location, and spacing of detectors. This information can be obtained from the approval listing for detectors or NFPA standards. It can also be obtained from fire protection engineers or consultants or manufacturers of equipment who have access to approval listing and design methods.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-62999, filed 12/24/81.]

WAC 296-24-631 Employee alarm systems. This section contains requirements for the design, installation, restoration and manual actuation of all types of emergency employee alarm systems.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-631, filed 12/24/81.]

WAC 296-24-63101 Scope and application. (1) This section applies to all emergency employee alarms installed to meet a particular WISHA standard. This section does not apply to those discharge or supervisory alarms required on various fixed extinguishing systems or to supervisory alarms on fire suppression, alarm or detection systems unless they are intended to be employee alarm systems.

(2) The requirements in this section that pertain to maintenance, testing and inspection shall apply to all local fire alarm signaling systems used for alerting employees regardless of the other functions of the system.

(3) All predischarge employee alarms installed to meet a particular WISHA standard shall meet the requirements of WAC 296-24-63103 (1) through (4) and 296-24-63107(1).

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63101, filed 12/24/81.]

WAC 296-24-63103 General requirements. (1) The employee alarm system shall provide warning for necessary emergency action as called for in the emergency action plan, or for reaction time for safe escape of employees from the workplace or the immediate work area, or both.

(2) The employee alarm shall be capable of being perceived above ambient noise or light levels by all employees in the affected portions of the workplace. Tactile devices may be used to alert those employees who would not otherwise be able to recognize the audible or visual alarm.

(3) The employee alarm shall be distinctive and recognizable as a signal to evacuate the work area or to perform actions designated under the emergency action plan.

(4) The employer shall explain to each employee the preferred means of reporting emergencies, such as manual pull box alarms, public address systems, radio or telephones. The employer shall post emergency telephone numbers near telephones, or employee notice boards, and other conspicuous locations when telephones serve as a means of reporting emergencies. Where a communication system also serves as the employee alarm system, all emergency messages shall have priority over all nonemergency messages.

(5) The employer shall establish procedures for sounding emergency alarms in the workplace. For those employers with ten or fewer employees in a particular workplace, direct voice communication is an acceptable procedure for sounding the alarm provided all employees can hear the alarm. Such workplaces need not have a back-up system.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63103, filed 12/24/81.]

WAC 296-24-63105 Installation and restoration. (1) The employer shall assure that all devices, components, combinations of devices or systems constructed and installed to comply with this standard are approved. Steam whistles, air horns, strobe lights or similar lighting devices, or tactile devices meeting the requirements of this section are considered to meet this requirement for approval.

(2) The employer shall assure that all employee alarm systems are restored to normal operating condition as promptly as possible after each test or alarm. Spare alarm devices and components subject to wear or destruction shall be available in sufficient quantities and locations for prompt restoration of the system.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63105, filed 12/24/81.]

WAC 296-24-63107 Maintenance and testing. (1) The employer shall assure that all employee alarm systems are maintained in operating condition except when undergoing repairs or maintenance.

(2) The employer shall assure that a test of the reliability and adequacy of nonsupervised employee alarm systems is made every two months. A different actuation device shall be used in each test of a multi-actuation device system so that no individual device is used for two consecutive tests.

(3) The employer shall maintain or replace power supplies as often as is necessary to assure a fully operational condition. Back-up means of alarm, such as employee runners or telephones, shall be provided when systems are out of service.

(4) The employer shall assure that employee alarm circuitry installed after July 1, 1982, which is capable of being supervised is supervised and that it will provide positive notification to assigned personnel whenever a deficiency exists in the system. The employer shall assure that all supervised employee alarm systems are tested at least annually for reliability and adequacy.

(5) The employer shall assure that the servicing, maintenance and testing of employee alarms are done by persons trained in the designed operation and functions necessary for reliable and safe operation of the system.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63107, filed 12/24/81.]

WAC 296-24-63109 Manual operation. The employer shall assure that manually operated actuation devices for use in conjunction with employee alarms are unobstructed, conspicuous and readily accessible.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63109, filed 12/24/81.]

WAC 296-24-63199 Appendix A—Employee alarm systems. (1) Scope and application. This section is intended to apply to employee alarm systems used for all types of employee emergencies except those which occur so quickly and at such a rapid rate (e.g., explosions) that any action by the employee is extremely limited following detection.

In small workplaces with ten or less employees the alarm system can be by direct voice communication (shouting) where any one individual can quickly alert all other employees. Radio may be used to transmit alarms from remote workplaces where telephone service is not available, provided that radio messages will be monitored by emergency services, such as fire, police or others, to insure alarms are transmitted and received.

(2) Alarm signal alternatives. In recognition of physically impaired individuals, WISHA is accepting various methods of giving alarm signals. For example, visual, tactile or audible alarm signals are acceptable methods for giving alarms to employees. Flashing lights or vibrating devices can be used in areas where the employer has hired employees with hearing or vision impairments. Vibrating devices, air fans, or other tactile devices can be used where visually and hearing impaired employees work. Employers are cautioned that certain frequencies of flashing lights have been claimed to initiate epileptic seizures in some employees and that this fact should be considered when selecting an alarm device. Two-way radio communications would be most appropriate for transmitting emergency alarms in such workplaces which may be remote or where telephones may not be available.

(3) Reporting alarms. Employee alarms may require different means of reporting, depending on the workplace involved. For example, in small workplaces, a simple shout throughout the workplace may be sufficient to warn employees of a fire or other emergency. In larger workplaces, more sophisticated equipment is necessary so that entire plants or high-rise buildings are not evacuated for one small emergency. In remote areas, such as pumping plants, radio communication with a central base station may be necessary. The goal of this standard is to assure that all employees who need to know that an emergency exists can be notified of the emergency. The method of transmitting the alarm should reflect the situation found at the workplace.

Personal radio transmitters, worn by an individual, can be used where the individual may be working, such as in a remote location. Such personal radio transmitters shall send a distinct signal and should clearly indicate who is having an emergency, the location, and the nature of the emergency. All radio transmitters need a feedback system to assure that the emergency alarm is sent to the people who can provide assistance.

For multistory buildings or single-story buildings with interior walls for subdivisions, the more traditional alarm systems are recommended for these types of workplaces. Supervised telephone or manual fire alarm or pull box stations with paging systems to transmit messages throughout the building is the recommended alarm system. The alarm box stations should be available within a travel distance of 200 feet. Water flow detection on a sprinkler system, fire detection systems (guard's supervisory station) or tour signal (watchman's service), or other related systems may be part of the overall system. The paging system may be used for nonemergency operations provided the emergency messages and uses will have precedence over all other uses of the system.

(4) Supervision. The requirements for supervising the employee alarm system circuitry and power supply may be accomplished in a variety of ways. Typically, electrically operated sensors for air pressure, fluid pressure, steam pressure, or electrical continuity of circuitry may be used to continuously monitor the system to assure it is operational and to identify trouble in the system and give a warning signal.

[Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63199, filed 12/24/81.]

WAC 296-24-63299 Appendix B—National consensus standards. The following table contains a cross-reference listing of those current national consensus standards which contains information and guidelines that would be considered acceptable in complying with requirements in the specific sections.

Section	National Consensus Standard
WAC 296-24-58505 . .	ANSI/NFPA No. 1972, Structural Fire Fighter's Helmets. ANSI Z88.5 American National Standard, Practice for Respirator Protection for the Fire Service. ANSI/NFPA No. 1971, Protective Clothing for Structural Fire Fighters. NFPA No. 1041, Fire Service Instructor Professional Qualifications.
WAC 296-24-592 . .	ANSI/NFPA No. 10, Portable Fire Extinguishers.
WAC 296-24-602 . .	ANSI/NFPA No. 18, Wetting Agents. ANSI/NFPA No. 20, Centrifugal Fire Pumps. NFPA No. 21, Steam Fire Pumps. ANSI/NFPA No. 22, Water Tanks. NFPA No. 24, Outside Protection. NFPA No. 26, Supervision of Valves. NFPA No. 13E, Fire Department Operations in Properties Protected by Sprinkler, Standpipe Systems. ANSI/NFPA No. 194, Fire Hose Connections. NFPA No. 197, Initial Fire Attack, Training for. NFPA No. 1231, Water Supplies for Suburban and Rural Fire Fighting.
WAC 296-24-607 . .	ANSI/NFPA No. 13, Sprinkler Systems. NFPA No. 13A, Sprinkler Systems, Maintenance. ANSI/NFPA No. 18, Wetting Agents. ANSI/NFPA No. 20, Centrifugal Fire Pumps. ANSI/NFPA No. 22, Water Tanks. NFPA No. 24, Outside Protection. NFPA No. 26, Supervision of Valves.

Section	National Consensus Standard
	ANSI/NFPA No. 72B, Auxiliary Signaling Systems.
	NFPA No. 1231, Water Supplies for Suburban and Rural Fire Fighting.
WAC 296-24-617 . .	ANSI/NFPA No. 11, Foam Systems.
	ANSI/NFPA No. 11A, High Expansion Foam Extinguishing Systems.
	ANSI/NFPA No. 11B, Synthetic Foam and Combined Agent Systems. ANSI/NFPA No. 12, Carbon Dioxide Systems. ANSI/NFPA No. 12A, Halon 1301 Systems. ANSI/NFPA No. 12B, Halon 1211 Systems. ANSI/NFPA No. 15, Water Spray Systems. ANSI/NFPA No. 16, Foam-Water Spray Systems. ANSI/NFPA No. 17, Dry Chemical Systems.
	ANSI/NFPA No. 69, Explosion Suppression Systems.
WAC 296-24-622 . .	ANSI/NFPA No. 11B, Synthetic Foam and Combined Agent Systems. ANSI/NFPA No. 17, Dry Chemical Systems.
WAC 296-24-623 . .	ANSI/NFPA No. 12, Carbon Dioxide Systems. ANSI/NFPA No. 12A, Halon 1211 Systems. ANSI/NFPA No. 12B, Halon 1301 Systems.
	ANSI/NFPA No. 69, Explosion Suppression Systems.
WAC 296-24-627 . .	ANSI/NFPA No. 11, Foam Extinguishing Systems.
	ANSI/NFPA No. 11A, High Expansion Foam Extinguishing Systems.
	ANSI/NFPA No. 11B, Synthetic Foam and Combined Agent Systems. ANSI/NFPA No. 15, Water Spray Fixed Systems. ANSI/NFPA No. 16, Foam-Water Spray Systems. ANSI/NFPA No. 18, Wetting Agents. NFPA No. 26, Supervision of Valves.
WAC 296-24-629 . .	ANSI/NFPA No. 71, Central Station Signaling Systems.
	ANSI/NFPA No. 72A, Local Protective Signaling Systems.
	ANSI/NFPA No. 72B, Auxiliary Signaling Systems.
	ANSI/NFPA No. 72D, Proprietary Protective Signaling Systems. ANSI/NFPA No. 72E, Automatic Fire Detectors. ANSI/NFPA No. 101, Life Safety Code.
WAC 296-24-631 . .	ANSI/NFPA No. 71, Central Station Signaling Systems.
	ANSI/NFPA No. 72A, Local Protective Signaling Systems.
	ANSI/NFPA No. 72B, Auxiliary Protective Signaling Systems.
	ANSI/NFPA No. 72C, Remote Station Protective Signaling Systems.
	ANSI/NFPA No. 72D, Proprietary Protective Signaling Systems. ANSI/NFPA No. 101, Life Safety Code.
Metric Conversion . .	ANSI/ASTM NSo. E380, American National Standard for Metric Practice.

NFPA standards are available from the National Fire Protection Association; Batterymarch Park, Quincy, MA 02269-9101.

ANSI Standards are available from the American National Standards Institute; 11 West 42nd Street; New York, NY 10036.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-63299, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63299, filed 12/24/81.]

WAC 296-24-63399 Appendix C—Fire protection references for further information. (1) Appendix general references. The following references provide information which can be helpful in understanding the requirements contained in all of the sections of Part G:

(a) Fire Protection Handbook, National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(b) Accident Prevention Manual for Industrial Operations, National Safety Council, 444 North Michigan Avenue, Chicago, IL 60611.

(c) Various associations also publish information which may be useful in understanding these standards. Examples of these associations are: Fire Equipment Manufacturers Association (FEMA) of Cleveland, OH 44115-2851, and the National Association of Fire Equipment Distributors (NAFED) of Chicago, IL 60611-4267.

(2) Appendix references applicable to individual sections. The following references are grouped according to individual sections contained in Part G. These references provide information which may be helpful in understanding and implementing the standards of each section of Part G.

(a) WAC 296-24-58505 - Fire brigades:

(i) Private Fire Brigades, NFPA 27; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Initial Fire Attack, Training Standard On, NFPA 197; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Fire Fighter Professional Qualifications, NFPA 1001; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Organization for Fire Services, NFPA 1201; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) Organization of a Fire Department, NFPA 1202; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Protective Clothing for Structural Fire Fighting, ANSI/NFPA 1971; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) American National Standards Institute for Men's Safety-Toe Footwear, ANSI Z41.1; American National Standards Institute, New York, NY 10036.

(viii) American National Standards Institute for Occupational and Educational Eye and Face Protection, ANSI Z87.1; American National Standards Institute, New York, NY 10036.

(ix) American National Standards Institute, Safety Requirements for Industrial Head Protection, ANSI Z89.1;

American National Standards Institute, New York, NY 10036.

(x) Specifications for Protective Headgear for Vehicular Users, ANSI Z90.1; American National Standards Institute, New York, NY 10036.

(xi) Testing Physical Fitness; Davis and Santa Maria, Fire Command, April 1975.

(xii) Development of a Job-Related Physical Performance Examination for Fire Fighters; Dotson and Others. A summary report for the National Fire Prevention and Control Administration, Washington, D.C., March 1977.

(xiii) Proposed Sample Standards for Fire Fighters' Protective Clothing and Equipment; International Association of Fire Fighters, Washington, D.C. 20006-5395.

(xiv) A Study of Facepiece Leakage of Self-Contained Breathing Apparatus by DOP Man Tests; Los Alamos National Laboratory, Los Alamos, N.M.

(xv) The Development of Criteria for Fire Fighters' Gloves; Vol. II: Glove Criteria and Test Methods; National Institute for Occupational Safety and Health, Cincinnati, Ohio, 1976.

(xvi) Model Performance Criteria for Structural Fire Fighters' Helmets; National Fire Prevention and Control Administration, Washington, D.C., 1977.

(xvii) Fire Fighters; Job Safety and Health Magazine, Occupational Safety and Health Administration, Washington, D.C., June 1978.

(xviii) Eating Smoke—The Dispensable Diet; Utech, H.P. The Fire Independent, 1975.

(xix) Project Monoxide—A Medical Study of an Occupational Hazard of Fire Fighters; International Association of Fire Fighters, Washington, D.C. 20006-5395.

(xx) Occupational Exposures to Carbon Monoxide in Baltimore Fire Fighters; Radford Baltimore, MD. Journal of Occupational Medicine, September, 1976.

(xxi) Fire Brigades; National Safety Council, Chicago, IL 60611, 1966.

(xxii) American National Standards Institute, Practice for Respiratory Protection for the Fire Service, ANSI Z88.5; American National Standards Institute, New York, NY 10036.

(xxiii) Respirator Studies for the Nuclear Regulatory Commission; October 1, 1977—September 30, 1978. Evaluation and Performance of Open-Circuit Breathing Apparatus. NUREG/CR-1235. Los Alamos National Laboratory; Los Alamos, NM 87545, January, 1980.

(b) WAC 296-24-592 - Portable fire extinguishers:

(i) Standard for Portable Fire Extinguishers, ANSI/NFPA 10; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

(ii) Methods for Hydrostatic Testing of Compressed-Gas Cylinders, C-1; Compressed Gas Association, 1725 Jefferson Davis Highway, Arlington, VA 22202-4100.

(iii) Recommendations for the Disposition of Unserviceable Compressed-Gas Cylinders, C-2; Compressed Gas Association, 1725 Jefferson Davis Highway, Arlington, VA 22202-4100.

(iv) Standard for Visual Inspection of Compressed-Gas Cylinders, C-6; Compressed Gas Association, 1725 Jefferson Davis Highway, Arlington, VA 22202-4100.

(v) Portable Fire Extinguisher Selection Guide, National Association of Fire Equipment Distributors, 401 North Michigan Avenue Chicago, IL 60611-4267.

(c) WAC 296-24-602 - Standpipe and hose systems:

(i) Standard for the Installation of Sprinkler Systems, ANSI/NFPA 13; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard of the Installation of Standpipe and Hose Systems, ANSI/NFPA 14; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard for the Installation of Centrifugal Fire Pumps, ANSI/NFPA 20; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard for Water Tanks for Private Fire Protection, ANSI/NFPA 22; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) Standard for Screw Threads and Gaskets for Fire Hose Connections, ANSI/NFPA 194; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Standard for Fire Hose, NFPA 196; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) Standard for the Care of Fire Hose, NFPA 198; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(d) WAC 296-24-607 - Automatic sprinkler systems:

(i) Standard of the Installation of Sprinkler Systems, ANSI/NFPA 13; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard for the Care and Maintenance of Sprinkler Systems, ANSI/NFPA 13A; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard for the Installation of Standpipe and Hose Systems, ANSI/NFPA 14; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard for the Installation of Centrifugal Fire Pumps, ANSI/NFPA 20; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) Standard for Water Tanks for Private Fire Protection, ANSI/NFPA 22; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Standard for Indoor General Storage, ANSI/NFPA 231; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) Standard for Rack Storage of Materials, ANSI/NFPA 231C; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(e) WAC 296-24-617 - Fixed extinguishing systems, general information:

(i) Standard for Foam Extinguishing Systems, ANSI/NFPA 11; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard for Hi-Expansion Foam Systems, ANSI/NFPA 11A; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard on Synthetic Foam and Combined Agent Systems, ANSI/NFPA 11B; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard on Carbon Dioxide Extinguishing Systems, ANSI/NFPA 12; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) Standard on Halon 1301, ANSI/NFPA 12A; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Standard on Halon 1211, ANSI/NFPA 12B; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) Standard for Water Spray Systems, ANSI/NFPA 15; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(viii) Standard for Foam-Water Sprinkler Systems and Foam-Water Spray Systems, ANSI/NFPA 16; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ix) Standard for Dry Chemical Extinguishing Systems, ANSI/NFPA 17; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(f) WAC 296-24-622 - Fixed extinguishing systems, dry chemical:

(i) Standard for Dry Chemical Extinguishing Systems, ANSI/NFPA 17; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) National Electrical Code, ANSI/NFPA 70; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard for the Installation of Equipment for the Removal of Smoke and Grease-Laden Vapor from Commercial Cooling Equipment, NFPA 96; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(g) WAC 296-24-623 - Fixed extinguishing systems, gaseous agents:

(i) Standard on Carbon Dioxide Extinguishing Systems, ANSI/NFPA 12; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard on Halon 1301, ANSI/NFPA 12B; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard on Halon 1211, ANSI/NFPA 12B; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard on Explosion Prevention Systems, ANSI/NFPA 69; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) National Electrical Code, ANSI/NFPA 70; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Standard on Automatic Fire Detectors, ANSI/NFPA 72E; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) Determination of Halon 1301/1211 Threshold Extinguishing Concentrations Using the Cup Burner Method, Riley and Olson, Ansul Report AL-530-A.

(h) WAC 296-24-627 - Fixed extinguishing systems, water spray and foam agents:

(i) Standard for Foam Extinguisher Systems, ANSI/NFPA 11; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard for High-Expansion Foam Systems, ANSI/NFPA 11A; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard for Water Spray Fixed Systems for Fire Protection, ANSI/NFPA 15; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard for the Installation of Foam-Water Sprinkler Systems and Foam-Water Spray Systems, ANSI/NFPA 16; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(i) WAC 296-24-629 - Fire detection systems:

(i) National Electrical Code, ANSI/NFPA 70; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard for Central Station Signaling Systems, ANSI/NFPA 71; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard on Automatic Fire Detectors, ANSI/NFPA 72E; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(j) WAC 296-24-631 - Employee alarm systems:

(i) National Electrical Code, ANSI/NFPA 70; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(ii) Standard for Central Station Signaling Systems, ANSI/NFPA 71; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iii) Standard for Local Protective Signaling Systems, ANSI/NFPA 72A; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(iv) Standard for Auxiliary Protective Signaling Systems, ANSI/NFPA 72B; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(v) Standard for Remote Station Protective Signaling Systems, ANSI/NFPA 72C; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vi) Standard for Proprietary Protective Signaling Systems, ANSI/NFPA 72D; National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.

(vii) Vocal Emergency Alarms in Hospitals and Nursing Facilities: Practice and Potential, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, July, 1977.

(viii) Fire Alarm and Communication Systems, National Institute of Standards and Technology, Quince Orchard and Clopper Roads, Gaithersburg, MD 20899-0011, April, 1976.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-63399, filed 7/20/94, effective 9/20/94; 92-23-017 (Order 92-13), § 296-24-63399, filed 11/10/92, effective 12/18/92; 88-14-108 (Order 88-11), § 296-24-63399, filed 7/6/88; 87-24-051 (Order 87-24), § 296-24-63399, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63399, filed 12/24/81.]

WAC 296-24-63499 Appendix D—Availability of publications incorporated by references in WAC 296-24-58505—Fire brigades. The final standard for fire brigades, WAC 296-24-585, contains provisions which incorporate certain publications by reference. The publications provide criteria and test methods for protective clothing worn by those fire brigade members who are expected to perform interior structural fire fighting. The standard references the pub-

lications as the chief sources of information for determining if the protective clothing affords the required level of protection.

It is appropriate to note that the final standard does not require employers to purchase a copy of the referenced publications. Instead, employers can specify (in purchase orders to the manufacturers) that the protective clothing meet the criteria and test methods contained in the referenced publications and can rely on the manufacturers assurances of compliance. Employers, however, may desire to obtain a copy of the referenced publications for their own information.

The section designation of the standard where the referenced publications appear, the title of the publications, and the availability of the publications are as follows:

Section Designation	Referenced Publication	Available From
WAC 296-24-58513 (3)(b)	"Protective Clothing for Structural Fire Fighting." NFPA	National Fire Protection Association, Batterymarch Park, Quincy, MA 02269-9101.
WAC 296-24-58513 (4)(a)	"Development of Criteria for Fire Fighter's Gloves; Vol. II, Part II: Test Methods"(1976)	U.S. Government Printing Office, Washington, D.C. 20401. Stock No. for Vol. II is: 071-033-021-1.
WAC 296-24-58513 (5)(a)	"Model Performance Criteria for Structural Fire fighter's Helmets" (1977)	U.S. Fire Administration, National Fire Safety and Research Office, 16825 South Seton Avenue, Emmitsburg, Maryland 21727.

The referenced publications (or a microfiche of the publications) are available for review at many universities and public libraries throughout the country. These publications may also be examined at the OSHA Technical Data Center, Room N2439-Rear, United States Department of Labor, 200 Constitution Avenue Northwest, Washington, D.C. 20210 (202-523-9700), or at any OSHA Regional Office (see telephone directories under United States Government-Labor Department).

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-63499, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63499, filed 12/24/81.]

WAC 296-24-63599 Appendix E—Test methods for protective clothing. This appendix contains test methods which must be used to determine if protective clothing affords the required level of protection as specified in WAC 296-24-58505 - fire brigades.

(1) Puncture resistance test method for foot protection.

(a) Apparatus. The puncture resistance test shall be performed on a testing machine having a movable platform adjusted to travel at one-quarter-inch per minute (0.1 cm/sec). Two blocks of hardwood, metal, or plastic shall be prepared as follows: The blocks shall be of such size and thickness as to insure a suitable rigid test ensemble and allow for at least one-inch of the pointed end of an 8D nail to be exposed for the penetration. One block shall have a hole drilled to hold an 8D common nail firmly at an angle of 98°. The second block shall have a maximum one-half inch (1.3 cm) diameter hole drilled through it so that the hole will allow free passage of the nail after it penetrates the insole during the test.

(b) Procedure. The test ensemble consisting of the sample unit, the two prepared blocks, a piece of leather outsole ten to eleven irons thick and a new 8D nail, shall be placed as follows: The 8D nail in the hole, the sample of outsole stock superimposed above the nail, the area of the sole plate to be tested placed on the outsole, and the second block with hole so placed as to allow for free passage of the nail after it passes through the outsole stock and sole plate in that order. The machine shall be started and the pressure, in pounds required for the nail to completely penetrate the outsole and sole plate, recorded to the nearest five pounds. Two determinations shall be made on each sole plate and the results averaged. A new nail shall be used for each determination.

(c) Source. These test requirements are contained in "Military Specification For Fireman's Boots, " MIL-B-2885D (1973 and amendment dated 1975) and are reproduced for your convenience.

(2) Test method for determining the strength of cloth by tearing: Trapezoid method.

(a) Test specimen. The specimen shall be a rectangle of cloth three-inches by six-inches (7.6 cm by 15.2 cm). The long dimension shall be parallel to the warp for warp tests and parallel to the filling for filling tests. No two specimens for warp tests shall contain the same warp yarns, nor shall any two specimens for filling tests contain the same filling yarns. The specimen shall be taken no nearer the selvage than 1/10 the width of the cloth. An isosceles trapezoid having an altitude of three inches (7.6 cm) and bases of one inch (2.5 cm) and four inches (10.2 cm) in length, respectively, shall be marked on each specimen, preferably with the aid of a template. A cut approximately three-eighths inch (1 cm) in length shall then be made in the center of a perpendicular to the one inch (2.5 cm) edge.

(b) Apparatus.

(i) Six-ounce (.17 kg) weight tension clamps shall be used so designed that the six ounces (.17 kg) of weight are distributed evenly across the complete width of the sample.

(ii) The machine shall consist of three main parts: Straining mechanism, clamps for holding specimen, and load and elongation recording mechanisms.

(iii) A machine wherein the specimen is held between two clamps and strained by a uniform movement of the pulling clamp shall be used.

(iv) The machine shall be adjusted so that the pulling clamp shall have a uniform speed of 12 ± 10.5 inches per minute (0.5 ± .02 cm/sec).

(v) The machine shall have two clamps with two jaws on each clamp. The design of the two clamps shall be such that one gripping surface or jaw may be an integral part of the rigid frame of the clamp or be fastened to allow a slight vertical movement, while the other gripping surface or jaw shall be completely moveable. The dimension of the immovable jaw of each clamp parallel to the application of the load shall measure one inch, and the dimension of the jaw perpendicular to this direction shall measure three inches or more. The

face of the moveable jaw of each clamp shall measure one inch by three inches.

Each jaw face shall have a flat, smooth, gripping surface. All edges which might cause a cutting action shall be rounded to a radius of not over 1/64 inch (.04 cm). In cases where a cloth tends to slip when being tested, the jaws may be faced with rubber or other material to prevent slippage. The distance between the jaws (gage length) shall be one inch at the start of the test.

(vi) Calibrated dial; scale or chart shall be used to indicate applied load and elongation. The machine shall be adjusted or set, so that the maximum load required to break the specimen will remain indicated on the calibrated dial or scale after the test specimen has ruptured.

(vii) The machine shall be of such capacity that the maximum load required to break the specimen shall be not greater than eighty-five percent or less than fifteen percent of the rated capacity.

(viii) The error of the machine shall not exceed two percent up to and including a fifty-pound load (22.6 kg) and one percent over a fifty-pound load (22.6 kg) at any reading within its loading range.

(ix) All machine attachments for determining maximum loads shall be disengaged during this test.

(c) Procedure.

(i) The specimen shall be clamped in the machine along the nonparallel sides of the trapezoid so that these sides lie along the lower edge of the upper clamp and the upper edge of the lower clamp with the cut halfway between the clamps. The short trapezoid base shall be held taut and the long trapezoid base shall lie in the folds.

(ii) The machine shall be started and the force necessary to tear the cloth shall be observed by means of an autographic recording device. The speed of the pulling clamp shall be 12 inches ± 0.5-inch per minute (0.5 ± .02 cm/sec).

(iii) If a specimen slips between the jaws, breaks in or at the edges of the jaws, or if for any reason attributable to faulty technique, an individual measurement falls markedly below the average test results for the sample unit, such result shall be discarded and another specimen shall be tested.

(iv) The tearing strength of the specimen shall be the average of the five highest peak loads of resistance registered for three inches (7.6 cm) of separation of the tear.

(d) Report.

(i) Five specimens in each of the warp and filling direction shall be tested from each sample unit.

(ii) The tearing strength of the sample unit shall be the average of the result obtained from the specimens tested in each of the warp and filling directions and shall be reported separately to the nearest 0.1 pound (.05 kg).

(e) Source. These test requirements are contained in "Federal Test Method Standard 191, Method 5136, " and are reproduced for your convenience.

(3) Test method for determining flame resistance of cloth; vertical.

(a) Test specimen. The specimen shall be a rectangle of cloth two and three-quarter inches (7.0 cm) by twelve inches (30.5 cm) with the long dimension parallel to either the warp or filling direction of the cloth. No two warp specimens shall contain the same warp yarns, and no two filling specimens shall contain the same filling yarn.

(b) Number of determinations. Five specimens from each of the warp and filling directions shall be tested from each sample unit.

(c) Apparatus.

(i) Cabinet. A cabinet and accessories shall be fabricated in accordance with the requirements specified in Figures L-1, L-2, and L-3. Galvanized sheet metal or other suitable metal shall be used. The entire inside back wall of the cabinet shall be painted black to facilitate the viewing of the test specimen and pilot flame.

(ii) Burner. The burner shall be equipped with a variable orifice to adjust the flame height, a barrel having a three-eighth inch (9.5 mm) inside diameter and a pilot light.

(A) The burner may be constructed by combining a three-eighth inch (1 cm) inside diameter barrel 3 ± 1/4-inches (7.6 ± .6 cm) long from a fixed orifice burner with a base from a variable orifice burner.

(B) The pilot light tube shall have a diameter of approximately one-sixteenth inch (.2 cm) and shall be spaced one-eighth inch (.3 cm) away from the burner edge with a pilot flame one-eighth inch (.3 cm) long.

(C) The necessary gas connections and the applicable plumbing shall be as specified in Figure L-4 except that a solenoid valve may be used in lieu of the stopcock valve to which the burner is attached. The stopcock valve or solenoid valve, whichever is used, shall be capable of being fully opened or fully closed in 0.1 second.

(D) On the side of the barrel of the burner, opposite the pilot light there shall be a metal rod of approximately one-eighth inch (.3 cm) diameter spaced one-half inch (1.3 cm) from the barrel and extending above the burner. The rod shall have two five-sixteenth inch (.8 cm) prongs marking the distances of three-quarters inch (1.9 cm), and one and one-half inches (3.8 cm) above the top of the burner.

(E) The burner shall be fixed in a position so that the center of the barrel of the burner is directly below the center of the specimen.

(iii) There shall be a control valve system with a delivery rate designed to furnish gas to the burner under a pressure of 2-1/2 ± 1/4 (psi) (17.5 ± 1.8 kPa) at the burner inlet. The manufacturer's recommended delivery rate for the valve system shall be included in the required pressure.

(iv) A synthetic gas mixture shall be of the following composition within the following limits (analyzed at standard conditions): 55 ± 3 percent hydrogen, 24 ± 1 percent methane, 3 ± 1 percent ethane, and 18 ± 1 percent carbon monoxide which will give a specific gravity of 0.365 ± 0.018 (air= 1) and a B.T.U. content of 540 ± 20 per cubic foot (20.1 ± 3.7 kJL) (dry basis) at 69.8 F (21 C).

(v) There shall be metal hooks and weights to produce a series of total loads to determine length of char. The metal hooks shall consist of No. 19 gage steel wire or equivalent and shall be made from three inch (7.6 cm) lengths of wire and bent one-half inch (1.3 cm) from one end to a 45-degree hook. One end of the hook shall be fastened around the neck of the weight to be used.

(vi) There shall be a stop watch or other device to measure the burning time 0.2 second.

(vii) There shall be a scale, graduated in 0.1 inch (.3 cm) to measure the length of char.

(d) Procedure.

(i) The material undergoing test shall be evaluated for the characteristics of after-flame time and char length on each specimen.

(ii) All specimens to be tested shall be at moisture equilibrium under standard atmospheric conditions in accordance with subsection (3)(c) of this appendix. Each specimen to be tested shall be exposed to the test flame within twenty seconds after removal from the standard atmosphere. In case of dispute, all testing will be conducted under standard atmospheric conditions in accordance with subsection (3)(c) of this appendix.

(iii) The specimen in its holder shall be suspended vertically in the cabinet in such a manner that the entire length of the specimen is exposed and the lower end is three-quarters inch (1.9 cm) above the top of the gas burner. The apparatus shall be set up in a draft-free area.

(iv) Prior to inserting the specimen, the pilot flame shall be adjusted to approximately one-eighth inch (.3 cm) in height measured from its lowest point to the tip.

The burner flame shall be adjusted by means of the needle valve in the base of the burner to give a flame height of one and one-half inches (3.8 cm) with the stopcock fully open and the air supply to burner shut off and taped. The one and one-half inch (3.8 cm) flame height is obtained by adjusting the valve so that the uppermost portion (tip) of the flame is level with the tip of the metal prong (see Fig. L-2) specified for adjustment of flame height. It is an important aspect of the evaluation that the flame height to be adjusted with the tip of the flame level with the tip of the metal prong. After inserting the specimen, the stopcock shall be fully opened, and the burner flame applied vertically at the middle of the lower edge of the specimen for twelve seconds and the burner turned off. The cabinet door shall remain shut during testing.

(v) The after-flame shall be the time the specimen continues to flame after the burner flame is shut off.

(vi) After each specimen is removed, the test cabinet shall be cleared of fumes and smoke prior to testing the next specimen.

(vii) After both flaming and glowing have ceased, the char length shall be measured. The char length shall be the distance from the end of the specimen, which was exposed to the flame, to the end of a tear (made lengthwise) of the specimen through the center of the charred area as follows: The specimen shall be folded lengthwise and creased by hand along a line through the highest peak of the charred area. The hook shall be inserted in the specimen (or a hole, one-quarter inch (.6 cm) diameter or less, punched out for the hook) at one side of the charred area one-quarter inch (.6 cm) from the adjacent outside edge and one-quarter inch (.6 cm) in from the lower end. A weight of sufficient size such that the weight and hook together shall equal the total tearing load required in Table L-2 of this section shall be attached to the hook.

(viii) A tearing force shall be applied gently to the specimen by grasping the corner of the cloth at the opposite edge of the char from the load and raising the specimen and weight clear of the supporting surface. The end of the tear shall be marked off on the edge and the char length measurement made along the undamaged edge.

Loads for determining char length applicable to the weight of the test cloth shall be as shown in Table L-2.

TABLE L-2

Specified weight per square yard of cloth before any fire retardant treatment or coating - ounces	Total learning weight for determining the charred length - pound
2.0 to 6.0	0.25
Over 6.0 to 15.0	0.50
Over 15.0 to 23.0	0.75
Over 23.0	1.0

To change into S.I. (System International) units, 1 ounce= 28.35 grams, 1 pound= 453 grams, 1 yard= .91 metre.

(ix) The after-flame time of the specimen shall be recorded to the nearest 0.2 second and the char length to the nearest 0.1 inch (.3 cm).

(e) Report.

(i) The after-flame time and char length of the sample unit shall be the average of the results obtained from the individual specimens tested. All values obtained from the individual specimens shall be recorded.

(ii) The after-flame time shall be reported in the nearest 0.2 second and the char length to the nearest 0.1 inch (.3 cm).

(f) Source. These test requirements are contained in "Federal Test Method Standard 191, Method 5903 (1971), " and are reproduced for your convenience.

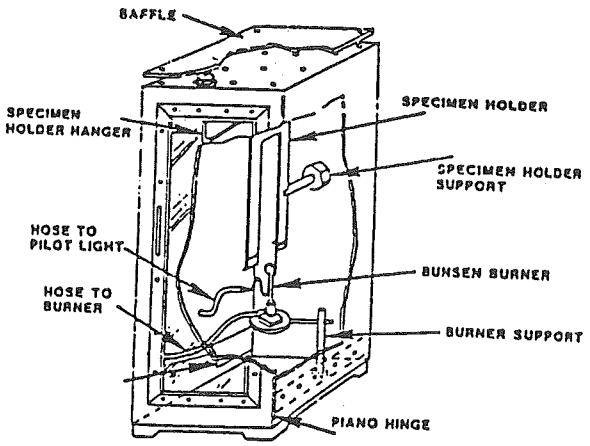


Figure L-1 - Vertical flame resistance textile apparatus. All given dimensions are in inches. System International (S.I.) unit: 1 inch = 2.54 cm.

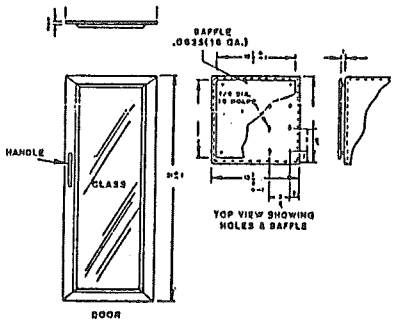


Figure L-2 - Vertical flame resistance textile apparatus, door and top view w/baffle. All given dimensions are in inches. System International (S.I.) unit: 1 inch = 2.54 cm.

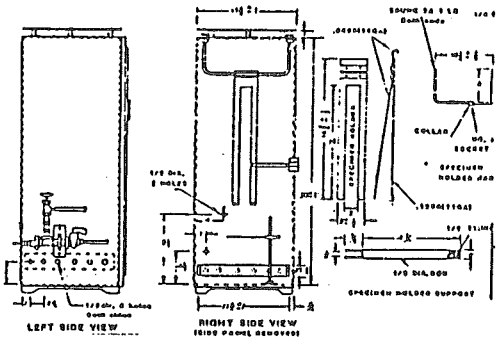


Figure L-3 - Vertical flame resistance textile apparatus, views and details. All given dimensions are in inches. System International (S.I.) unit: 1 inch = 2.54 cm.

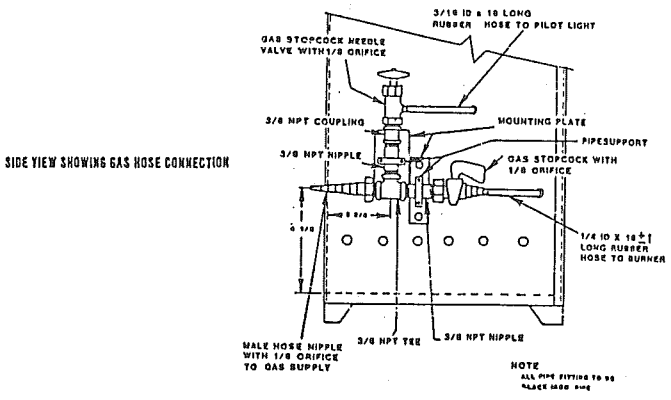


Figure L-4 - Vertical flame resistance textile apparatus. All given dimensions are in inches. System International (S.I.) unit: 1 inch = 2.54 cm.

[Statutory Authority: Chapter 49.17 RCW. 92-23-017 (Order 92-13), § 296-24-63599, filed 11/10/92, effective 12/18/92; 87-24-051 (Order 87-24), § 296-24-63599, filed 11/30/87. Statutory Authority: RCW 49.17.040 and 49.17.050. 82-02-003 (Order 81-32), § 296-24-63599, filed 12/24/81.]

PART H-1
HAND AND PORTABLE POWERED TOOLS AND OTHER HAND-HELD EQUIPMENT

Hand and portable powered tools

WAC 296-24-650 Hand and portable powered tools and equipment—General.

[Order 73-5, § 296-24-650, filed 5/9/73 and Order 73-4, § 296-24-650, filed 5/7/73.]

WAC 296-24-65001 General requirements. Each employer shall be responsible for the safe condition of tools and equipment used by employees, including tools and equipment which may be furnished by employees.

[Order 73-5, § 296-24-65001, filed 5/9/73 and Order 73-4, § 296-24-65001, filed 5/7/73.]

WAC 296-24-65003 Compressed air used for cleaning. Compressed air shall not be used for cleaning purposes except where reduced to less than 30 p.s.i. and then only with effective chip guarding and personal protective equipment.

[Order 73-5, § 296-24-65003, filed 5/9/73 and Order 73-4, § 296-24-65003, filed 5/7/73.]

WAC 296-24-65005 Compressed air tools. (1) In the use of compressed air tools, care should be used to prevent the tool from being shot from the gun.

(2) When momentarily out of use the gun should be laid in such position that the tool cannot fly out if the pressure is accidentally released. When not in use, all tools should be removed from the gun.

(3) In disconnecting a compressed air tool from the air line, care should be exercised first to shut off the pressure and then to operate the tool to exhaust the pressure remaining in the hose.

(4) Compressed air hose or guns shall not be pointed at or brought into contact with the body of any person.

[Order 73-5, § 296-24-65005, filed 5/9/73 and Order 73-4, § 296-24-65005, filed 5/7/73.]

WAC 296-24-65007 Air hammer. (1) Before laying down an air hammer remove tool from hammer unless it is held in place by safety catch.

[Order 73-5, § 296-24-65007, filed 5/9/73 and Order 73-4, § 296-24-65007, filed 5/7/73.]

WAC 296-24-655 Guarding of portable powered tools.

[Order 73-5, § 296-24-655, filed 5/9/73 and Order 73-4, § 296-24-655, filed 5/7/73.]

WAC 296-24-65501 Portable powered tools. (1) Portable circular saws.

(a) All portable, power-driven circular saws having a blade diameter greater than 2 in. shall be equipped with guards above and below the base plate or shoe. The upper guard shall cover the saw to the depth of the teeth, except for the minimum arc required to permit the base to be tilted for

bevel cuts. The lower guard shall cover the saw to the depth of the teeth, except for the minimum arc required to allow proper retraction and contact with the work. When the tool is withdrawn from the work, the lower guard shall automatically and instantly return to covering position.

(b) (1)(a) of this section does not apply to circular saws used in the meat industry for meat cutting purposes.

(2) Switches and controls.

(a) All hand-held powered circular saws having a blade diameter-greater than 2 inches, electric, hydraulic or pneumatic chain saws, and percussion tools without positive accessory holding means shall be equipped with a constant pressure switch or control that will shut off the power when the pressure is released. All hand-held gasoline powered chain saws shall be equipped with a constant pressure throttle control that will shut off the power to the saw chain when the pressure is released.

(b) All hand-held powered drills, tappers, fastener drivers, horizontal, vertical, and angle grinders with wheels greater than 2 inches in diameter, disc sanders with discs greater than 2 inches in diameter, belt sanders, reciprocating saws, saber, scroll, and jig saws with blade shanks greater than a nominal one-fourth inch, and other similarly operating powered tools shall be equipped with a constant pressure switch or control and may have a lock-on control provided that turnoff can be accomplished by a single motion of the same finger or fingers that turn it on.

(c) All other hand-held powered tools, such as, but not limited to, platen sanders, grinders with wheels 2 inches in diameter or less, disc sanders with discs 2 inches in diameter or less, routers, planers, laminate trimmers, nibblers, shears, saber, scroll, and jig saws with blade shanks a nominal one-fourth of an inch wide or less, may be equipped with either a positive "on-off" control, or other controls as described by (2)(a) and (b) of this section.

(i) Saber, scroll, and jig saws with nonstandard blade holders may use blades with shanks which are nonuniform in width, provided the narrowest portion of the blade shank is an integral part in mounting the blade.

(ii) Blade shank width shall be measured at the narrowest portion of the blade shank when saber, scroll, and jig saws have nonstandard blade holders.

(iii) "Nominal" in this section means +0.05 inch.

(d) The operating control on hand-held power tools shall be so located as to minimize the possibility of its accidental operation, if such accidental operation would constitute a hazard to employees.

(e) This subdivision does not apply to concrete vibrators, concrete breakers, powered tampers, jack hammers, rock drills, garden appliances, household and kitchen appliances, personal care appliances, medical or dental equipment, or to fixed machinery.

(3) Portable belt sanding machines. Belt sanding machines shall be provided with guards at each nip point where the sanding belt runs onto a pulley. These guards shall effectively prevent the hands or fingers of the operator from coming in contact with the nip points. The unused run of the sanding belt shall be guarded against accidental contact.

(4) Cracked saws. All cracked saws shall be removed from service.

(5) Grounding. Portable electric powered tools shall meet the electrical requirements of chapter 296-24 WAC Part L.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-65501, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-65501, filed 11/22/91, effective 12/24/91. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.240, chapters 43.22 and 42.30 RCW. 80-17-015 (Order 80-21), § 296-24-65501, filed 11/13/80; Order 74-27, § 296-24-65501, filed 5/7/74; Order 73-5, § 296-24-65501, filed 5/9/73 and Order 73-4, § 296-24-65501, filed 5/7/73.]

WAC 296-24-657 Pneumatic powered tools and hose.

[Order 73-5, § 296-24-657, filed 5/9/73 and Order 73-4, § 296-24-657, filed 5/7/73.]

WAC 296-24-65701 Portable tools. (1) The operating trigger on portable hand-operated utilization equipment shall be so located as to minimize the possibility of its accidental operation and shall be arranged to close the air inlet valve automatically when the pressure of the operator's hand is removed.

(2) A tool retainer shall be installed on each piece of utilization equipment which, without such a retainer, may eject the tool.

[Order 73-5, § 296-24-65701, filed 5/9/73 and Order 73-4, § 296-24-65701, filed 5/7/73.]

WAC 296-24-65703 Airhose. Hose and hose connections used for conducting compressed air to utilization equipment shall be designed for the pressure and service to which they are subjected.

[Order 73-5, § 296-24-65703, filed 5/9/73 and Order 73-4, § 296-24-65703, filed 5/7/73.]

WAC 296-24-660 Portable abrasive wheels.

[Order 73-5, § 296-24-660, filed 5/9/73 and Order 73-4, § 296-24-660, filed 5/7/73.]

WAC 296-24-66001 Abrasive wheel terms. (1) Mounted wheels. Mounted wheels, usually 2-inch diameter or smaller, and of various shapes, may be either organic or inorganic bonded abrasive wheels. They are secured to plain or threaded steel mandrels.

(2) Tuck pointing. Removal, by grinding, of cement, mortar, or other nonmetallic jointing material.

(3) Tuck pointing wheels. Tuck pointing wheels, usually Type 1, reinforced organic bonded wheels have diameter, thickness and hole size dimension. They are subject to the same limitations of use and mounting as Type 1 wheels defined in WAC 296-24-66001(10).

LIMITATION: Wheels used for tuck pointing should be reinforced, organic bonded.

(4) Portable grinding. A grinding operation where the grinding machine is designed to be hand held and may be easily moved from one location to another.

(5) Organic bonded wheels. Organic wheels are wheels which are bonded by means of an organic material such as resin, rubber, shellac, or other similar bonding agent.

(6) Safety guard. A safety guard is an enclosure designed to restrain the pieces of the grinding wheel and furnish all

possible protection in the event that the wheel is broken in operation.

(7) Reinforced wheels. The term "reinforced" as applied to grinding wheels shall define a class of organic wheels which contain strengthening fabric or filament. The term "reinforced" does not cover wheels using such mechanical additions as steel rings, steel cup backs or wire or tape winding.

(8) Type 11 flaring cup wheels. Type 11 flaring cup wheels have double diameter dimensions D and J, and in addition have thickness, hole size, rim and back thickness dimensions. Grinding is always performed on rim face, W dimension. Type 11 wheels are subject to all limitations of use and mounting listed for Type 6 straight sided cup wheels definition in WAC 296-24-66001(9).

LIMITATION: Minimum back thickness, E dimension, should not be less than one-fourth T dimension. In addition when unthreaded hole wheels are specified the inside flat, K dimension, shall be large enough to accommodate a suitable flange.

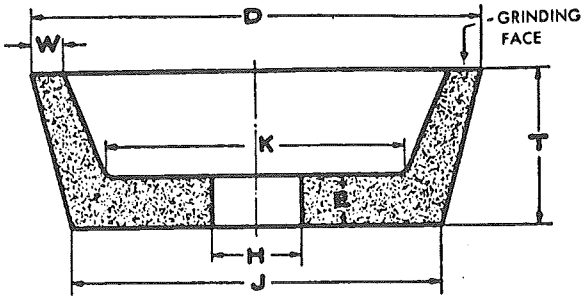


Figure P-1

Type 11—Flaring-cup wheel side grinding wheel having a wall flared or tapered outward from the back. Wall thickness at the back is normally greater than at the grinding face (W).

(9) Type 6 straight cup wheels. Type 6 cup wheels have diameter, thickness, hole size, rim thickness, and back thickness dimensions. Grinding is always performed on rim face, W dimension.

LIMITATION: Minimum back thickness, E dimension, should not be less than one-fourth T dimension. In addition, when unthreaded hole wheels are specified, the inside flat, K dimension, must be large enough to accommodate a suitable flange.

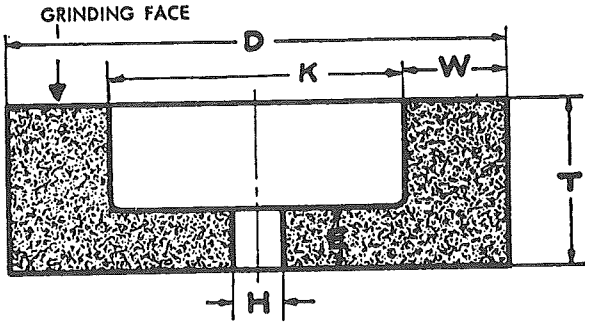


Figure P-2

Type 6—Straight-cup wheel

Side grinding wheel having a diameter, thickness and hole with one side straight or flat and the opposite side recessed. This type, however, differs from Type 5 in that the grinding is performed on the wall of the abrasive created by difference between the diameter of the recess and the outside diameter of the wheel. Therefore, the wall dimension "W" takes precedence over the diameter of the recess as an essential intermediate dimension to describe this shape type.

(10) Type 1 straight wheels. Type 1 straight wheels have a diameter, thickness, and hole size dimensions and should be used only on the periphery. Type 1 wheels shall be mounted between flanges.

LIMITATION: Hole dimension (H) should not be greater than two-thirds of wheel diameter dimension (D) for precision, cylindrical, centerless, or surface grinding applications. Maximum hole size for all other application should not exceed one-half wheel diameter.

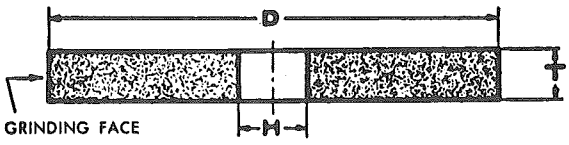


Figure P-3

Type 1—Straight wheel

Peripheral grinding wheel having a diameter, thickness and hole.

[Order 73-5, § 296-24-66001, filed 5/9/73 and Order 73-4, § 296-24-66001, filed 5/7/73.]

WAC 296-24-66003 General requirements. (1) All abrasive wheels shall be used only on machines provided with safety guards as defined in the following sections through WAC 296-24-66011.

EXCEPTIONS: This requirement shall not apply to the following classes of wheels and conditions.

(a) Wheels used for internal work while within the work being ground.

(b) Mounted wheels used in portable operations 2 inches and smaller in diameter.

(c) Types 16, 17, 18, 18R, and 19 cones and plugs and threaded hole pot balls as illustrated and described by 1.4.11 of ANSI B 7.1-1970 Safety Code for the Use, Care and Protection of Abrasive Wheels, where the work offers protection.

(2) The safety guard shall cover the spindle end, nut, and flange projections. The safety guard shall be mounted so as to maintain proper alignment with the wheel, and the strength of the fastenings shall exceed the strength of the guard.

(a) Exception: Safety guards on all operations where the work provides a suitable measure of protection to the operator, may be so constructed that the spindle end, nut, and outer flange are exposed; and where the nature of the work is such as to entirely cover the side of the wheel, the side covers of the guard may be omitted.

(b) Exception: The spindle end, nut, and outer flange may be exposed on portable machines designed for, and used with, Tzype 6, 11, 27, and 28 abrasive wheels, cutting off wheels, and tuck pointing wheels.

(c) Exception: The spindle end, nut, and outer flange may be exposed on machines designed as portable saws.

[Order 74-27, § 296-24-66003, filed 5/7/74; Order 73-5, § 296-24-66003, filed 5/9/73 and Order 73-4, § 296-24-66003, filed 5/7/73.]

WAC 296-24-66005 Cup wheels. Cup wheels (Types 6 and 11) shall be guarded by:

(1) Safety guards as specified in WAC 296-24-66003; or,

(2) Special "revolving cup guards" which mount behind the wheel and turn with it. They shall be made of steel or other material with adequate strength and shall enclose the wheel sides upward from the back for one-third of the wheel thickness. The mounting features shall conform with all regulations. (See WAC 296-24-66011.) It is necessary to maintain clearance between the wheel side and the guard. The clearance shall not exceed one-sixteenth inch; or,

(3) Some other form of guard that will insure as good protection as that which would be provided by the guards specified in WAC 296-24-66005 (1) or (2).

[Order 73-5, § 296-24-66005, filed 5/9/73 and Order 73-4, § 296-24-66005, filed 5/7/73.]

WAC 296-24-66007 Vertical portable grinders. Safety guards used on machines known as right angle head or vertical portable grinders shall have a maximum exposure angle of 180°, and the guard shall be located so as to be between the operator and the wheel during use. Adjustment of guard shall be such that pieces of an accidentally broken wheel will be deflected away from the operator. (See Figure P-4.)

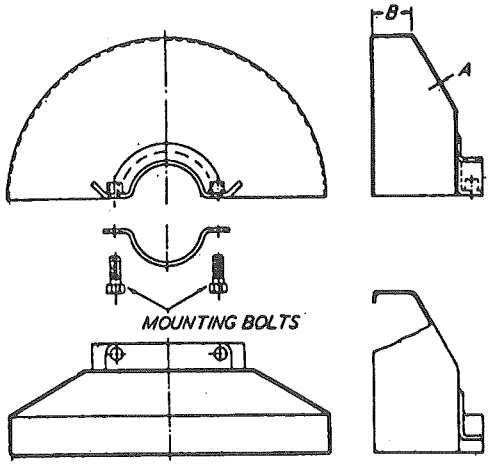


Figure No. P-4

[Order 73-5, § 296-24-66007, filed 5/9/73 and Order 73-4, § 296-24-66007, filed 5/7/73.]

WAC 296-24-66009 Other portable grinders. The maximum angular exposure of the grinding wheel periphery and sides for safety guards used on other portable grinding machines shall not exceed 180° and the top half of the wheel shall be enclosed at all times. (See Figures P-5 and P-6.)

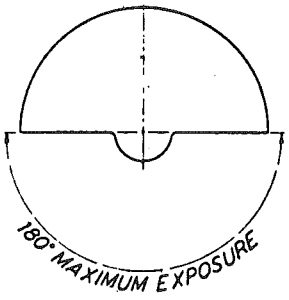


Figure No. P-5

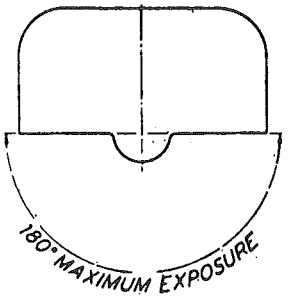


Figure No. P-6

[Order 73-5, § 296-24-66009, filed 5/9/73 and Order 73-4, § 296-24-66009, filed 5/7/73.]

WAC 296-24-66011 Mounting and inspection of abrasive wheels. (1) Immediately before mounting, all wheels shall be closely inspected and sounded by the user (ring test) to make sure they have not been damaged in transit, storage, or otherwise. The spindle speed of the machine shall be checked before mounting of the wheel to be certain that it does not exceed the maximum operating speed marked on the wheel. Wheels should be tapped gently; if they sound cracked (dead), they shall not be used.

Note: Wheels should be tapped gently with a light nonmetallic implement, such as the handle of a screwdriver for light wheels, or a wooden mallet for heavier wheels. This is known as the "ring test."

(2) Grinding wheels shall fit freely on the spindle and remain free under all grinding conditions. The machine spindle shall be made to nominal (standard) size plus zero minus .002 inch, and the wheel hole shall be made suitably oversize to assure safety clearance under the conditions of operating heat and pressure.

Note: A controlled clearance between the wheel hole and the machine spindle (or wheel sleeves or adaptors) is essential to avoid excessive pressure from mounting and spindle expansion.

(3) All contact surfaces of wheels, blotters, and flanges shall be flat and free of foreign matter.

(4) When a bushing is used in the wheel hole it shall not exceed the width of the wheel and shall not contact the flanges.

(5) For requirements for the use of flanges and blotters see WAC 296-24-18007.

Note: Excluded machinery. Natural sandstone wheels and metal, wooden, cloth, or paper discs, having a layer of abrasive on the surface are not covered by this section.

[Order 74-27, § 296-24-66011, filed 5/7/74; Order 73-5, § 296-24-66011, filed 5/9/73 and Order 73-4, § 296-24-66011, filed 5/7/73.]

WAC 296-24-663 Safety requirements for powder actuated fastening systems.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-663, filed 7/31/79.]

WAC 296-24-66301 Scope. This standard provides safety requirements for a powder actuated fastening tool or machine which propels a stud, pin, fastener, or other object for the purpose of affixing it by penetration to another object.

This standard does not apply to devices designed for attaching objects to soft construction materials, such as wood, plaster, tar, dry wallboard, and the like, or to stud welding equipment.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66301, filed 7/31/79.]

WAC 296-24-66303 Purpose. The purpose of this standard is to provide reasonable safety for life, limb, and property, by establishing requirements for design, construction, operation, service, and storage of powder actuated fastening tools, fasteners, and power loads.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66303, filed 7/31/79.]

WAC 296-24-66305 Definitions applicable to this section. (1) Angle control - a safety feature designed to prevent a tool from operating when tilted beyond a predetermined angle.

(2) Approved - meeting the requirements of this standard and acceptable to the department of labor and industries.

(3) Cased power load - a power load with the propellant contained in a closed case.

(4) Caseless power load - a power load with the propellant in solid form not requiring containment.

(5) Chamber (noun) - the location in the tool into which the power load is placed and in which it is actuated.

(6) Chamber (verb) - to fit the chamber according to manufacturer's specifications.

(7) Fasteners - any pins (unthreaded heads) or studs (threaded heads) driven by powder actuated tools.

(8) Fixture - a special shield that provides equivalent protection where the standard shield cannot be used.

(9) Head - that portion of a fastener that extends above the work surface after being properly driven.

(10) Misfire - a condition in which the power load fails to ignite after the tool has been operated.

(11) Powder actuated fastening system - a method comprising the use of a powder actuated tool, a power load, and a fastener.

(12) Powder actuated tool (also known as tool) - a tool that utilizes the expanding gases from a power load to drive a fastener.

(13) Power load - the energy source used in powder actuated tools.

(14) Qualified operator - a person who meets the requirements of WAC 296-24-66321 (1) and (2).

(15) Shield - a device, attached to the muzzle end of a tool, which is designed to confine flying particles.

(16) Spalled area - a damaged and nonuniform concrete or masonry surface.

(17) Test velocity - the measurement of fastener velocity performed in accordance with WAC 296-24-66307 (1)(m).

(18) Tools - tools can be divided into two types: Direct acting and indirect acting; and three classes: Low velocity, medium velocity, and high velocity.

(a) Direct-acting tool - a tool in which the expanding gas of the power load acts directly on the fastener to be driven.

(b) Indirect-acting tool - a tool in which the expanding gas of the power load acts on a captive piston, which in turn drives the fastener.

(c) Low-velocity tool - a tool whose test velocity has been measured ten times while utilizing the highest velocity combination of:

(i) The lightest commercially available fastener designed for that specific tool;

(ii) The strongest commercially available power load that will properly chamber in the tool;

(iii) The piston designed for that tool and appropriate for that fastener; that will produce an average test velocity from the ten tests not in excess of 100 meters per second (328 feet per second) with no single test having a velocity of over 108 m/s (354 ft/s).

(d) Medium-velocity tool - a tool whose test velocity has been measured ten times while utilizing the highest velocity combination of:

(i) The lightest commercially available fastener designed for the tool;

(ii) The strongest commercially available power load that will properly chamber in the tool;

(iii) The piston designed for that tool and appropriate for that fastener; that will produce an average test velocity from ten tests in excess of 100 m/s (328 ft/s) but not in excess of 150 m/s (492 ft/s) with no single test having a velocity of 160 m/s (525 ft/s).

(e) High-velocity tool - a tool whose test velocity has been measured ten times while utilizing the combination of:

(i) The lightest commercially available fastener designed for the tool;

(ii) The strongest commercially available power load which will properly chamber in the tool; that will produce an average velocity from the ten tests in excess of 150 m/s (492 ft/s).

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-66305, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66305, filed 7/31/79.]

WAC 296-24-66307 Requirements. (1) General.

(a) The tool shall be designed to prevent inadvertent actuation.

(b) The tool shall be designed to prevent actuation when dropped in any attitude from a height of 3 meters (10 ft) onto a smooth, hard surface such as concrete or steel, if such actuation can propel a fastener or any part thereof in free flight.

(c) Actuation of the tool shall be dependent upon at least two separate and distinct operations by the operator, with at least one operation being separate from the operation of holding the tool against the work surface.

(d) The tool shall be designed not to be operable other than against a work surface with a force on the work surface equal to 22 newtons (5 lb.) greater than the weight of the tool or a minimum impact energy of 4 joules (3 ft-lb).

(e) All tools shall be designed so that compatible protective shields or fixtures, designed, built, and supplied by the manufacturer of the tool, can be used (see WAC 296-24-66307 (2)(b), (3)(b), (4)(b) and 296-24-66313(8)).

(f) The tool shall be designed so that a determinable means of varying the power levels is available for selecting a power level adequate to perform the desired work (see WAC 296-24-66309(5)).

(g) The tool shall be designed so that all principal functional parts can be checked for foreign matter that may affect operation.

(h) The tool shall be designed so that all parts will be of adequate strength to resist maximum stresses imposed upon actuation when the tool is used in accordance with the manufacturer's instructions and is powered by any commercially available power load which will properly chamber in the tool.

(i) Each tool shall bear a legible permanent model designation, which shall serve as a means of identification. Each tool shall also bear a legible, permanent manufacturer's unique serial number.

(j) A lockable container shall be provided for each tool. The words "POWDER ACTUATED TOOL" shall appear in plain sight on the outside of the container. The following notice shall be attached on the inside cover of the container:

"WARNING - POWDER ACTUATED TOOL. TO BE USED ONLY BY A QUALIFIED OPERATOR AND KEPT UNDER LOCK AND KEY WHEN NOT IN USE."

(k) Each tool shall bear a durable warning label with the following statement, or the equivalent:

"WARNING - FOR USE ONLY BY QUALIFIED OPERATORS ACCORDING TO MANUFACTURER'S INSTRUCTION MANUAL."

(l) Each tool shall be supplied with the following:

(i) Operator's instruction and service manual.

(ii) Power load chart.

(iii) Tool inspection record.

(iv) Service tools and accessories.

(m) In determining tool test velocities, the velocity of the fastener shall be measured in free flight at a distance of 2 meters (6-1/2 ft) from the muzzle end of the tool, using accepted ballistic test methods.

(2) Design requirements - low-velocity class.

(a) Low-velocity tools, indirect-acting (piston) type, as defined in WAC 296-24-66305, shall meet the requirements of WAC 296-24-66307(1).

(b) A shield shall be supplied with each tool.

(3) Design requirements - medium-velocity class.

(a) Medium-velocity tools, indirect-acting (piston) type, as defined in WAC 296-24-66305, shall meet the requirements of WAC 296-24-66307(1).

(b) The tool shall have a shield at least 63 mm (2-1/2 in) in diameter mounted perpendicular to, and concentric with, the muzzle end, when it is indexed to the center position. A special shield or fixture may be used when it provides equivalent protection.

(c) The tool shall be designed so that it cannot be actuated unless it is equipped with a shield or fixture.

(d) The tool shall be designed with angle control so that it will not actuate when equipped with the standard shield indexed to the center position if the bearing surface of the shield is tilted more than 12 degrees from a flat surface.

(4) Design requirements - high-velocity class.

(a) High-velocity tools, direct-acting or indirect-acting type, as defined in WAC 296-24-66305, shall meet the requirements of WAC 296-24-66307(1).

(b) The tool shall have a shield at least 88 mm (3-1/2 in) in diameter mounted perpendicular to, and concentric with, the muzzle end, when it is indexed to the center position. A special shield or fixture may be used when it provides equivalent protection.

(c) The tool shall be designed so that it cannot be actuated unless it is equipped with a shield or fixture.

(d) The tool shall be designed with angle control so that it will not actuate when equipped with the standard shield indexed to the center position, if the bearing surface of the shield is tilted more than eight degrees from a flat surface.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66307, filed 7/31/79.]

WAC 296-24-66309 Power loads. (1) Identification of cased power loads. Cased power loads shall be coded to identify power load levels by case color and power load color as specified in Table P-1.

(2) Identification of caseless power loads. Caseless power loads shall be coded to identify power load levels by power load color as specified in Table P-1 and by configuration.

(3) Power load use limitation. No power load (cased or caseless) shall be used if it will properly chamber in any existing commercially available tool and will cause a fastener to have a test velocity in excess of the maximum test velocities specified for the said tool.

(4) Identification of power load packages. Power load packages shall provide a visual number-color indication of the power level of the power load as specified in Table P-1.

(5) Optional power load variation. Where means other than power loads of varying power levels are to be used to control penetration, such means shall provide an equivalent power level variation.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66309, filed 7/31/79.]

WAC 296-24-66311 Fasteners. Fasteners for use in powder actuated tools shall be designed and manufactured to function compatibly with these tools and, when used in masonry, concrete, or steel, to effect properly the application for which they are recommended.

TABLE P - 1
Power Load Identification

Power Level	Color Identification		Nominal velocity	
	Case Color	Load Color	Meters per Second (± 13.5)	Feet per Second (± 45)
1	Brass	Gray	91	300
2	Brass	Brown	119	390
3	Brass	Green	146	480
4	Brass	Yellow	174	570
5	Brass	Red	201	660
6	Brass	Purple	229	750
7	Nickel	Gray	256	840
8	Nickel	Brown	283	930
9	Nickel	Green	311	1020
10	Nickel	Yellow	338	1110
11	Nickel	Red	366	1200
12	Nickel	Purple	393	1290

Note: The nominal velocity applies to a 9.53 mm (3/8-in) diameter 22.7-gram (350-grain) ballistic slug fired in a test device and has no reference to actual fastener velocity developed in any specific tool.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66311, filed 7/31/79.]

WAC 296-24-66313 Operation. (1) Only tools meeting the requirements of this standard shall be used.

(2) Only qualified operators shall operate tools.

(3) The lowest velocity class of tool that will properly set the fastener shall be used.

(4) Tools shall be operated in strict accordance with the manufacturer's instructions.

(5) Eye or face protection, or both, shall be worn by operators, assistants, and adjacent personnel when tool is in use. Hearing protection shall be used when making fastenings in confined areas.

(6) Each day, prior to use, the operator shall inspect the tool to determine that it is in proper working condition in accordance with the testing methods recommended by the manufacturer of the tool.

(7) Any tool found not to be in proper working condition shall be immediately removed from service and tagged "DEFECTIVE"; it shall not be used until it has been properly repaired in accordance with the manufacturer's instructions.

(8) The proper shield, fixture, adapter, or accessory, suited for the application, as recommended and supplied by the manufacturer, shall be used.

(9) Only those types of fasteners and power loads recommended by the tool manufacturer shall be used.

(10) Before fastening into any questionable material, the operator shall determine its suitability by using a fastener as a center punch. If the fastener point does not easily penetrate, is not blunted, and does not fracture the material, initial test fastenings shall then be made in accordance with the tool manufacturer's recommendations. (See WAC 296-24-66315(3).)

(11) No tool shall be loaded unless it is being prepared for immediate use. If the work is interrupted after loading, the tool shall be unloaded at once.

(12) Powder actuated magazine or clip-fed tools are not considered loaded unless a power load is actually in the ram (firing chamber), even though the magazine or clip is inserted in the tool. If work is interrupted, the firing chamber shall be cleared and the magazine or clip removed.

(13) Tools shall not be loaded until just prior to the intended firing time. Neither loaded nor empty tools are to be pointed at any person; hands shall be kept clear of the open barrel end.

(14) The tool shall always be held perpendicular to the work surface when fastening into any material, except for specific applications recommended by the tool manufacturer.

(15) In the event of a misfire, the operator shall hold the tool firmly against the work surface for a period of thirty seconds and then follow the explicit instructions set forth in the manufacturer's instructions.

(16) Power loads of different power levels and types shall be kept in separate compartments or containers.

(17) A sign, at least 20 x 25 cm (8 x 10 in), using boldface type no less than 2.5 cm (1 in) in height, shall be posted in plain sight on all construction projects where tools are used. The sign shall bear wording similar to the following: "POWDER ACTUATED TOOL IN USE."

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-66313, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66313, filed 7/31/79.]

WAC 296-24-66315 Limitations of use. (1) The tool shall not be used in an explosive or flammable atmosphere.

(2) A tool shall never be left unattended in a place where it would be available to unauthorized persons.

(3) Fasteners shall not be driven into very hard or brittle materials including, but not limited to, cast iron, glazed tile, hardened steel, glass block, natural rock, hollow tile, or most brick. (See WAC 296-24-66313(10).)

(4) Fasteners shall not be driven into easily penetrated or thin materials, or materials of questionable resistance, unless backed by a material that will prevent the fastener from passing completely through the other side.

(5) Fasteners shall not be driven closer than 13 mm (1/2 in) from the edge of steel except for specific applications recommended by the tool manufacturer.

(6) Fasteners shall not be driven closer than 7.5 cm (3 in) from the unsupported edge of masonry materials except for specific applications recommended by the tool manufacturer.

(7) Fasteners shall not be driven into concrete unless material thickness is at least three times the fastener shank penetration.

(8) Fasteners shall not be driven into any spalled area.

(9) Fasteners shall not be driven through existing holes unless a specific guide means, as recommended and supplied by the tool manufacturer, is used to ensure positive alignment.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66315, filed 7/31/79.]

WAC 296-24-66317 Maintenance and storage. (1) The tool shall be serviced and inspected for worn or damaged parts at regular intervals as recommended by the tool manufacturer. Prior to the tool being put back into use, all worn or damaged parts shall be replaced by a qualified person using only parts supplied by the tool manufacturer. A record of this inspection shall be noted and dated on the tool inspection record.

(2) Instruction manuals, maintenance tools, and accessories supplied with the tool shall be stored in the tool container when not in use.

(3) Powder actuated tools and power loads shall be locked in a container and stored in a safe place when not in use and shall be accessible only to authorized personnel.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66317, filed 7/31/79.]

WAC 296-24-66319 Authorized instructor. (1) Only persons trained and authorized by the tool manufacturer or by an authorized representative of the tool manufacturer shall be qualified to instruct and qualify operators for the manufacturer's powder actuated tools.

(2) All authorized instructors shall have read and be familiar with this standard, and shall be capable of:

(a) Disassembling, servicing, and reassembling the tool.

(b) Recognizing any worn or damaged parts or defective operation.

(c) Recognizing and clearly identifying the colors used to identify power load levels.

(d) Using the tool correctly within the limitations of its use.

(e) Training and testing operators prior to issuing a qualified operator's card.

(3) All authorized instructors shall have in their possession a valid authorized instructor's card issued and signed by an authorized representative of the manufacturer. The card shall be wallet size of approximately 6 x 9 cm (2-1/2 x 3-1/2 in), and the face of the card shall bear text similar to that shown in Figure P-1.

(4) A list of all instructors authorized by the manufacturer to instruct and qualify operators shall be maintained by the tool manufacturer and be made available to the department of labor and industries upon request.

(5) An instructor's card may be revoked by the authorizing agent or the department of labor and industries, if they are known to have issued a qualified operator's card in violation of any regulation contained in this standard. When an instructor is no longer authorized to issue qualified operator's cards, they shall surrender their card to the authorizing agent or the department of labor and industries.

AUTHORIZED INSTRUCTOR

..... Powder Actuated Tools Date.....
(MAKE)
Card No. ..... Social Security No. .....
This certifies that .....
(NAME OF INSTRUCTOR)
has received the prescribed training in the operation and maintenance of powder actuated tools manufactured by ..... and is qualified
(NAME OF MANUFACTURER)
to train and certify operators of .....
(MAKE)
powder actuated tools.
Model(s) .....
Authorized by .....
I have received instruction by the manufacturer's authorized representative in the training of operators of the above tools and agree to conform to all rules and regulations governing the instruction of tool operators.
Date of Birth .....

.....
(SIGNATURE)

Figure P-1
Sample of Authorized Instructor's Card

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-66319, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66319, filed 7/31/79.]

WAC 296-24-66321 Qualified operator. (1) The operator shall be trained by an authorized instructor to be familiar with the provisions of this standard and the instructions provided by the manufacturer for operation and maintenance. The operator shall also be capable of:

(a) Reading and understanding the manufacturer's instruction manual.

(b) Cleaning the tool correctly.

(c) Recognizing any worn or damaged parts or defective operation.

(d) Recognizing the number-color code system used in this standard to identify power load levels. In the event the operator is unable to distinguish the colors used, the operator shall be given special instruction which will enable the operator to avoid error.

(e) Using a tool correctly within the limitations of its use and demonstrate competence by operating the tool in the presence of the instructor.

(2) After training, the operator shall, substantiate competency, by satisfactorily completing a written examination provided by the manufacturer of the tool.

(a) The operator's written examination shall consist of questions to establish the operator's competence with respect to:

(i) The requirements of this standard;

(ii) The powder actuated fastening system; and

(iii) The specific details of operation and maintenance of the tool(s) involved.

(b) The examination shall provide a statement, attested to by the instructor, that the applicant can (or cannot) readily distinguish the colors used to identify power load levels (see WAC 296-24-66309).

(3) Each applicant who meets the requirements as set forth in subsections (1) and (2) of this section shall receive a qualified operator's card, issued and signed by both the instructor and applicant. While using the tool, the operator shall carry this card.

(4) The qualified operator's card supplied by the manufacturer shall be wallet size of approximately 6 x 9 cm (2-1/2 x 3-1/2 in), and the face of the card shall bear text similar to that shown in Figure P-2.

(5) There shall be printed on the card a notation reading:

"Revocation of card - failure to comply with any of the rules and regulations for safe operation of powder actuated fastening tools shall be cause for the immediate revocation of this card."

QUALIFIED OPERATOR

..... Powder Actuated Tools Date.....
(MAKE)
Card No..... Social Security No.....
This certifies that .....
(NAME OF OPERATOR)
has received the prescribed training in the operation and maintenance of powder actuated tools manufactured by
.....
(NAME OF MANUFACTURER)
Model(s) .....
Trained and issued by
.....
(SIGNATURE OF AUTHORIZED INSTRUCTOR)
I have received instruction in the safe operation and maintenance of powder actuated fastening tools of the makes and models specified and agree to conform to all rules and regulations governing that use
Date of Birth .....
.....
(SIGNATURE)

Figure P-2
Sample of qualified Operator's Card

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-66321, filed 7/20/94, effective 9/20/94. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-66321, filed 7/31/79.]

WAC 296-24-665 Power lawnmowers.

[Order 73-5, § 296-24-665, filed 5/9/73 and Order 73-4, § 296-24-665, filed 5/7/73.]

WAC 296-24-66501 Terms. (1) Blade tip circle. The path described by the outermost point of the blade as it is rotated about its shaft axis.

(2) Guards. A part or an assembly provided for shielding a hazardous area of a machine.

(3) Catcher assemblies. Parts or combinations of parts which provide a means for collecting grass clippings or debris.

(4) Walk-behind mower. A mower either pushed or self-propelled and normally guided by the operator walking behind the unit.

(5) Operator area, walk-behind mowers. For discharge interference purposes, that area confined within a circle no smaller than 30 inches in diameter, the center of which is located to the rear of the mower on its longitudinal centerline 30 inches behind the nearest blade tip circle.

(6) Power reel mower. A lawn-cutting machine utilizing a power source to rotate one or more helically formed blades about a horizontal axis to provide a shearing action with a stationary cutter bar or bed knife.

(7) Power rotary mower. A lawn-cutting machine utilizing a power source to rotate one or more cutting blades about a vertical axis.

(8) Lowest blade position. The lowest blade position under static conditions.

(9) Riding mower. A powered, self-propelled lawn-cutting vehicle on which the operator rides and controls the machine.

(10) Sulky type mower. Normally, a walk-behind mower which has been converted to a riding mower by the addition of a sulky.

(11) Deadman control. A control designed so that it will automatically interrupt power to a drive when the operator's actuating force is removed.

[Order 73-5, § 296-24-66501, filed 5/9/73 and Order 73-4, § 296-24-66501, filed 5/7/73.]

WAC 296-24-66503 General requirements. (1) Power lawnmowers of the walk-behind, riding-rotary types, and reel power lawnmowers designed for use by employees shall meet the design specifications in "American National Standard Safety Specifications for Power Lawnmowers" ANSI B71.1-1968. These specifications do not apply to sulky-type mowers, flail mowers, sickle-bar mowers, or mowers designed for commercial use.

(2) All power-driven chains, belts, and gears shall be so positioned or otherwise guarded to prevent the operator's accidental contact therewith, during normal starting, mounting, and operation of the machine.

(3) A shutoff device shall be provided to stop operation of the motor or engine. This device shall require manual and intentional reactivation to restart the motor or engine.

(4) All positions of the operating controls shall be clearly identified.

(5) The words, "Caution. Be sure the operating control(s) is in neutral before starting the engine, " or similar wording shall be clearly visible at an engine starting control point on self-propelled mowers.

[Order 76-6, § 296-24-66503, filed 3/1/76; Order 73-5, § 296-24-66503, filed 5/9/73 and Order 73-4, § 296-24-66503, filed 5/7/73.]

WAC 296-24-66505 Walk-behind and riding rotary mowers. (1) The mower blade shall be enclosed except on the bottom and the enclosure shall extend to or below the lowest cutting point of the blade in the lowest blade position.

(2) Guards which must be removed to install a catcher assembly shall comply with the following:

(a) Warning instructions shall be affixed to the mower near the opening stating that the mower shall not be used without either the catcher assembly or the guard in place.

(b) The catcher assembly or the guard shall be shipped and sold as part of the mower.

(c) The instruction manual shall state that the mower shall not be used without either the catcher assembly or the guard in place.

(d) The catcher assembly, when properly and completely installed, shall not create a condition which violates the limits given for the guarded opening.

(3) Openings in the blade enclosure, intended for the discharge of grass, shall be limited to a maximum vertical angle of the opening of 30°. Measurements shall be taken from the lowest blade position.

(4) The total effective opening area of the grass discharge opening(s) shall not exceed 1,000 square degrees on units having a width of cut less than 27 1/2 inches, or 2,000 square degrees on units having a width of cut 27 1/2 inches or over.

(5) The word "caution" or stronger wording, shall be placed on the mower at or near each discharge opening.

(6) Blade(s) shall stop rotating from the manufacturer's specified maximum speed within 15 seconds after declutching, or shutting off power.

(7) In a multipiece blade, the means of fastening the cutting members to the body of the blade or disc shall be so designed that they will not become worn to a hazardous condition before the cutting members themselves are worn beyond use.

(8) The maximum tip speed of any blade shall be 19,000 feet per minute.

[Order 74-27, § 296-24-66505, filed 5/7/74; Order 73-5, § 296-24-66505, filed 5/9/73 and Order 73-4, § 296-24-66505, filed 5/7/73.]

WAC 296-24-66507 Walk-behind rotary mowers. (1) The horizontal angle of the opening(s) in the blade enclosure, intended for the discharge of grass, shall not contact the operator area.

(2) There shall be one of the following at all openings in the blade enclosure intended for the discharge of grass:

(a) A minimum unobstructed horizontal distance of 3 inches from the end of the discharge chute to the blade tip circle.

(b) A rigid bar fastened across the discharge opening, secured to prevent removal without the use of tools. The bottom of the bar shall be no higher than the bottom edge of the blade enclosure.

(3) The highest point(s) on the front of the blade enclosure, except discharge openings, shall be such that any line extending a maximum of 15° downward from the horizontal toward the blade shaft axis (axes) shall not intersect the horizontal plane within the blade tip circle. The highest point(s) on the blade enclosure front, except discharge openings, shall not exceed 1 and 1/4 inches above the lowest cutting point of the blade in the lowest blade position. Mowers with a swing-over handle are to be considered as having no front in the blade enclosure and therefore shall comply with WAC 296-24-66505(1).

(4) The mower handle shall be fastened to the mower so as to prevent loss of control by unintentional uncoupling while in operation.

(5) A positive upstop or latch shall be provided for the mower handle in the normal operating position(s). The upstop shall not be subject to unintentional disengagement during normal operation of the mower. The upstop or latch shall not allow the center or the handle grips to come closer than 17 inches horizontally behind the closest path of the mower blade(s) unless manually disengaged.

(6) A swing-over handle, which complies with the above requirements, will be permitted.

(7) Wheel drive disengaging controls, except deadman controls, shall move opposite to the direction of the vehicle motion in order to disengage the drive. Deadman controls shall comply with WAC 296-24-66501(11) and may operate in any direction to disengage the drive.

[Order 74-27, § 296-24-66507, filed 5/7/74; Order 73-5, § 296-24-66507, filed 5/9/73 and Order 73-4, § 296-24-66507, filed 5/7/73.]

WAC 296-24-66509 Riding rotary mowers. (1) The highest point(s) of all openings in the blade enclosure, front shall be limited by a vertical angle of opening of 15° and a maximum distance of 1 1/4 inches above the lowest cutting point of the blade in the lowest blade position.

(2) Opening(s) shall be placed so that grass or debris will not discharge directly toward any part of an operator seated in a normal operator position.

(3) There shall be one of the following at all openings in the blade enclosure intended for the discharge of grass:

(a) A minimum unobstructed horizontal distance of 6 inches from the end of the discharge chute to the blade tip circle.

(b) A rigid bar fastened across the discharge opening, secured to prevent removal without the use of tools. The bottom of the bar shall be no higher than the bottom edge of the blade enclosure.

(4) Mowers shall be provided with stops to prevent jackknifing or locking of the steering mechanism.

(5) Vehicle stopping means shall be provided.

(6) Hand-operated wheel drive disengaging controls shall move opposite to the direction of vehicle motion in order to disengage the drive. Foot-operated wheel drive disengaging controls shall be depressed to disengage the drive. Deadman controls, both hand and foot operated, shall comply with WAC 296-24-66501(11) and may operate in any direction to disengage the drive.

[Order 74-27, § 296-24-66509, filed 5/7/74; Order 73-5, § 296-24-66509, filed 5/9/73 and Order 73-4, § 296-24-66509, filed 5/7/73.]

WAC 296-24-670 Jacks.

[Order 73-5, § 296-24-670, filed 5/9/73 and Order 73-4, § 296-24-670, filed 5/7/73.]

WAC 296-24-67001 Jack terms. (1) Jack. A jack is an appliance for lifting and lowering or moving horizontally a load by application of a pushing force.

Note: Jacks may be of the following types: Lever and ratchet, screw and hydraulic.

(2) Rating. The rating of a jack is the maximum working load for which it is designed to lift safely that load throughout its specified amount of travel.

Note: To raise the rated load of a jack, the point of application of the load, the applied force, and the length of lever arm should be those designated by the manufacturer for the particular jack considered.

[Order 73-5, § 296-24-67001, filed 5/9/73 and Order 73-4, § 296-24-67001, filed 5/7/73.]

WAC 296-24-67003 Loading and marking. (1) The operator shall make sure that the jack used has a rating sufficient to lift and sustain the load.

(2) The rated load shall be legibly and permanently marked in a prominent location on the jack by casting, stamping, or other suitable means.

[Order 73-5, § 296-24-67003, filed 5/9/73 and Order 73-4, § 296-24-67003, filed 5/7/73.]

WAC 296-24-67005 Operation and maintenance. (1) In the absence of a firm foundation, the base of the jack shall be blocked. If there is a possibility of slippage of the cap, a block shall be placed in between the cap and the load.

(2) The operator shall watch the stop indicator, which shall be kept clean, in order to determine the limit of travel. The indicated limit shall not be overrun.

(3) After the load has been raised, it shall immediately be cribbed, blocked, or otherwise secured.

(4) Hydraulic jacks exposed to freezing temperatures shall be supplied with an adequate antifreeze liquid.

(5) All jacks shall be properly lubricated at regular intervals. The lubricating instructions of the manufacturer should be followed, and only lubricants recommended by the manufacturer should be used.

(6) Each jack shall be thoroughly inspected at times which depend upon the service conditions. Inspections shall be not less frequent than the following:

(a) For constant or intermittent use at one locality, once every 6 months,

(b) For jacks sent out of shop for special work, when sent out and when returned,

(c) For a jack subjected to abnormal load or shock, immediately before and immediately thereafter.

(7) Repair or replacement parts shall be examined for possible defects.

(8) Jacks which are out of order shall be tagged accordingly, and shall not be used until repairs are made.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-67005, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-67005, filed 5/9/73 and Order 73-4, § 296-24-67005, filed 5/7/73.]

PART H-2
SAFE PRACTICES OF ABRASIVE BLASTING OPERATIONS, VENTILATION

Abrasive blasting operations

WAC 296-24-675 Safe practices of abrasive blasting operations.

[Order 73-5, § 296-24-675, filed 5/9/73 and Order 73-4, § 296-24-675, filed 5/7/73.]

WAC 296-24-67501 Purpose. The safety and health standards of this section are intended to protect health and to prevent injury to personnel engaged in abrasive blasting operations and to others working in the vicinity by:

(1) Controlling dusts which are dispersed during abrasive blasting.

(2) Providing an adequate amount of clean air to personnel.

(3) Protecting personnel from injury from flying particles or from moving equipment.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67501, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67501, filed 5/9/73 and Order 73-4, § 296-24-67501, filed 5/7/73.]

WAC 296-24-67503 Application. This standard applies to all operations where an abrasive is forcibly applied to a surface by pneumatic or hydraulic pressure or by centrifugal force. It does not apply to steam blasting, or steam cleaning, or hydraulic cleaning methods where this work is done without the aid of abrasives.

[Order 73-5, § 296-24-67503, filed 5/9/73 and Order 73-4, § 296-24-67503, filed 5/7/73.]

WAC 296-24-67505 Selection of abrasives and equipment. Each type of abrasive and each type of equipment has its particular advantages in producing the quality of work desired, and the selection will depend on the specific requirements of the user. Therefore, no rule or suggestion is given in this standard for the selection of a particular abrasive or of particular equipment. With properly designed equipment and proper operation and maintenance all types of abrasives and equipment can be used safely. However, abrasives which create the minimum hazard should be used wherever feasible.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67505, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67505, filed 5/9/73 and Order 73-4, filed 5/7/73.]

WAC 296-24-67507 Definitions. (1) Abrasive. A solid granular substance used in an abrasive blasting operation.

(2) Abrasive blasting. The forcible application of an abrasive to a surface by pneumatic pressure, hydraulic pressure, or centrifugal force.

(3) Abrasive-blasting respirator. A continuous flow air-line respirator or pressure-demand supplied-air respirator made so that it will cover the wearer's head, neck, and shoulders and provide protection from rebounding abrasive.

(4) Air-line respirator. A device consisting of a facepiece, helmet, or hood to which clean air is supplied to the wearer through a small-diameter hose from a compressed air source.

(5) Blast cleaning barrel. A complete enclosure which rotates on an axis, or which has an internal moving tread to tumble the parts, in order to expose various surfaces of the parts to the action of an automatic blast spray.

(6) Blast cleaning room. A complete enclosure in which blasting operations are performed and where the operator works inside of the room to operate the blasting nozzle and direct the flow of the abrasive material.

(7) Blasting cabinet. An enclosure where the operator stands outside and operates the blasting nozzle through an opening or openings in the enclosure.

(8) Clean air. Air of such purity that it will not cause harm or discomfort to an individual if it is inhaled for extended periods of time.

(9) Dust collector. A device or combination of devices for separating dust from the air handled by an exhaust ventilation system.

(10) Exhaust ventilation system. A system for removing contaminated air from a space, comprising two or more of the following elements; (a) enclosure or hood, (b) duct work, (c) dust collecting equipment, (d) exhauster, and (e) discharge stack.

(11) Particulate-filter respirator. An air purifying respirator, commonly referred to as a dust or a fume respirator, which removes most of the dust or fume from the air passing through the device.

(12) Respirable dust. Airborne dust in sizes capable of passing through the upper respiratory system to reach the lower lung passages.

(13) Rotary blast cleaning table. An enclosure where the pieces to be cleaned are positioned on a rotating table and are passed automatically through a series of blast sprays.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67507, filed 12/26/97, effective 3/1/98. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-67507, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-67507, filed 5/9/73 and Order 73-4, § 296-24-67507, filed 5/7/73.]

WAC 296-24-67509 Dust hazards from abrasive blasting. (1) Dust sources. Abrasives and the surface coatings on the materials blasted are shattered and pulverized during blasting operations and the dust formed will contain particles of respirable size. The composition and toxicity of the dust from these sources must be considered in making an evaluation of the potential health hazards.

(2) Types of abrasives. A large variety of solid materials may be used as abrasives, with qualities varying from hard deep-cutting to soft polishing. These include; (a) mineral grains, either synthetic or natural such as silica or garnet, (b) metallic shot or grit, generally of steel or chilled cast iron, and (c) organic abrasives, such as ground corncobs or walnut shells.

Silica sand is the most hazardous mineral abrasive commonly used and its use should be limited wherever possible.

The potential hazard from steel or iron dust is considered to be minimal.

Readily combustible organic abrasives may be pulverized fine enough to be capable of forming explosive mixtures with air.

(3) Types of coatings. A surface coating formed during the fabrication of a part, or a protective coating applied after fabrication, will be removed and dispersed as a dust by abrasive blasting. The type of coating should be known to make a proper evaluation of the potential hazard.

(a) Silica sand is frequently imbedded in the surface of castings and may be pulverized by blast cleaning.

(b) Coatings containing toxic metals will add to the potential seriousness of the dust exposures. Examples of such coatings are anti-fouling paints containing mercury, lead paints on structural steel, cadmium plating, and lead deposits on pistons of internal combustion engines.

(c) Plastic or resin coatings may be decomposed by abrasive blasting and form irritating by-products.

(4) Wet abrasive blasting. Wet methods will tend to keep dust exposures minimal, but dispersed droplets and dried residues may become airborne and create potential exposures.

(5) Concentrations of contaminants. The concentration of respirable dust or fumes in the breathing zone of the abrasive-blasting operator or any other worker must be kept below the levels specified in WAC 296-62-075 through 296-62-07515.

(6) Use of combustible abrasives. Organic abrasives which are combustible must be used only in automatic systems because the fine dust produced presents a potential fire and explosion hazard.

(a) Where flammable or explosive dust mixtures may be present, the construction of the equipment, including the exhaust system and all electric wiring must conform to the requirements of American National Standard Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying, Z 33.1-1961 (NFPA 91-1961), and chapter 296-24 WAC Part L, Electrical. The blast nozzle must be bonded and grounded to prevent the buildup of static charges.

(b) Where flammable or explosive dust mixtures may be present, the abrasive blasting enclosure, the ducts, and the dust collector must be constructed with loose panels or explosion venting areas, located on sides away from any occupied area, to provide for pressure relief in case of explosion, following the principles set forth in the National Fire Protection Association Explosion Venting Guide, NFPA 68-1954.

Note: See the latest versions of NFPA-91, NFPA-68 and ANSI Z33.1 for current information on the construction of abrasive blasting equipment and enclosures.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67509, filed 12/26/97, effective 3/1/98. Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-67509, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-67509, filed 5/9/73 and Order 73-4, § 296-24-67509, filed 5/7/73.]

WAC 296-24-67511 Blast cleaning enclosures. (1) Blast cleaning enclosures include rotary blast cleaning tables, blast cleaning barrels and drums, abrasive blasting cabinets, blast cleaning rooms, abrasive separators, and similar enclosures.

(2) Blast cleaning enclosures must be exhaust ventilated in such a way that a continuous inward flow of air will be maintained at all openings in the enclosure, during the blasting operation. (See WAC 296-24-67520 and Appendix 1.)

(3) All air inlets and access openings must be baffled or so arranged that by the combination of inward air flow and baffling the escape of abrasive or dust particles into an adjacent work area will be minimized, and visible spurts of dust will not be observed.

(4) The rate of exhaust must be sufficient to provide prompt clearance of the dust-laden air within the enclosure after blasting stops.

(5) Before the enclosure is opened, the blast must be turned off and the exhaust system must be run for a sufficient period of time to remove the airborne dust particles within the enclosure.

(6) Safety glass protected by screening must be used in observation windows, where hard deep-cutting abrasives are used.

(7) Slit abrasive-resistant baffles must be installed in multiple sets at all small access openings where dust might escape, and must be inspected regularly and replaced when needed.

(8) Doors must be flanged and tight when closed.

(9) Doors on blast-cleaning rooms must be operable from both inside and outside, except where there is a small operator access door, the large work access door may be closed or opened from the outside only.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67511, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67511, filed 5/9/73 and Order 73-4, § 296-24-67511, filed 5/7/73.]

WAC 296-24-67513 Construction and maintenance of the exhaust ventilation systems. (1) The construction, installation, inspection, and maintenance of exhaust systems must conform to the principles and requirements set forth in American National Standard Fundamentals Governing the Design and Operation of Local Exhaust Systems, 29.2-1960 and ANSI Z33.1-1961.

Note: See the latest versions of ANSI Z9.2 and ANSI Z33.1 for current information on the installation, inspection and maintenance of exhaust systems.

(2) When dust leaks are noted, repairs must be made.

(3) The static pressure drop at the exhaust ducts leading from the equipment must be checked when the installation is completed and periodically thereafter to assure continued satisfactory operation.

(4) Whenever an appreciable change in the pressure drop indicates a partial blockage, the system must be cleaned and returned to normal operating conditions.

(5) In installations where the abrasive is recirculated, an abrasive separator must be provided to remove fines from the spent abrasives.

(6) The air exhausted from blast cleaning equipment must be discharged through dust collecting equipment.

(7) Dust collectors must be set up so that the accumulated dust can be emptied and removed without contaminating other working areas.

Note: Disposal of waste. The fine dust from dry collectors should be emptied into and transported in enclosed containers to prevent dispersal of the fines, or discharged into a sluice with some method to assure wetting of the dust.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67513, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67513, filed 5/9/73 and Order 73-4, § 296-24-67513, filed 5/7/73.]

WAC 296-24-67515 Personal protective equipment. (1) Respiratory protective equipment approved by the National Institute for Occupational Safety and Health (NIOSH) must be used for protection of personnel against dusts produced during abrasive-blasting operations.

(2) Abrasive-blasting respirators. Abrasive-blasting respirators must be worn by all abrasive-blasting operators in the following situations: (a) When working inside of blast cleaning rooms, or (b) when using silica sand in manual blasting operations except where the nozzle and blast are physically separated from the operator in an exhaust ventilated enclosure, or (c) where concentrations of toxic dusts dispersed by the abrasive blasting may exceed the limits set in WAC 296-62-075 through 296-62-07515 except where the nozzle and blast are physically separated from the operator in an exhaust-ventilated enclosure.

(3) Particulate-filter respirators.

(a) Particulate or dust-filter respirators may be used for short, intermittent, or occasional dust exposures such as clean-up, dumping of dust collectors, or unloading shipments of sand at a receiving point, when it is not feasible to control the dust by enclosure, exhaust ventilation, or other means.

(b) Dust-filter respirators may also be used to protect the operator of outside (outdoor) abrasive-blasting operations where nonsilica abrasives are used on materials having low toxicity.

Note: The selection of a dust-filter respirator depends on the amount of dust in the breathing zone of the user. See WAC 296-62-07113 - Table 5.

(c) Dust-filter respirators used must be NIOSH-approved for protection against the specific type of dust encountered.

(d) Dust-filter respirators must be properly fitted as required in WAC 296-62-071.

(e) Dust-filter respirators must not be used for continuous protection where silica sand is used as the blasting abrasive, or when toxic materials are blasted.

(4) A respiratory protection program as required in WAC 296-62-071 must be established wherever it is necessary to use respirators.

(5) Personal protective clothing.

(a) Operators must be equipped with heavy canvas or leather gloves and aprons or equivalent protection to protect them from the impact of abrasives.

(b) Safety shoes must be worn where there is a hazard of foot injury.

(c) Equipment for protection of the eyes and face must be supplied to the operator and to other personnel working near abrasive blasting operations when the respirator design does not provide such protection.

(6) Personal protective clothing, equipment and their use must comply with WAC 296-24-075 (Part A2).

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67515, filed 12/26/97, effective 3/1/98. Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-67515, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-67515, filed 5/9/73 and Order 73-4, § 296-24-67515, filed 5/7/73.]

WAC 296-24-67517 Air supply and air compressors. (1) Clean air supply. The air for abrasive-blasting respirators must be free of harmful quantities of dusts, mists, or noxious gases, and shall meet the requirements for air purity set forth in American National Standard Z 86.1-1973.

Note: It is preferable to provide air for an abrasive-blasting respirator with low pressure blowers or compressors which need no internal organic lubricants and are used solely for that purpose, as long as they provide sufficient air flow to each user as specified in Table 3 of the respirator standard, WAC 296-62-071.

(2) When air from the regular compressed air line of the plant is used for the abrasive-blasting respirator the following are required:

(a) A trap and carbon filter must be installed and regularly maintained, to remove oil, water, scale, and odor;

(b) A pressure reducing diaphragm or valve must be installed to reduce the pressure down to requirements of the particular type of abrasive-blasting respirator;

(c) An automatic control must be provided to either sound an alarm or shut down the compressor in case of overheating.

Note: See also WAC 296-62-07111.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67517, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67517, filed 5/9/73 and Order 73-4, § 296-24-67517, filed 5/7/73.]

WAC 296-24-67519 Operational procedures and general safety. (1) Dusts must not be permitted to accumulate on the floor or on ledges outside of an abrasive blasting enclosure, and dust spills must be cleaned up promptly, preferable by vacuum cleaning.

Note: Removal of dust accumulations from ledges and other dust catching surfaces should be done with a vacuum cleaner during a time when the plant is not in operation. The cleaning operator should wear a respirator approved for the existing conditions.

(2) Aisles and walkways must be kept clear of steel shot or similar abrasive which may create a slipping hazard.

Note: Pressurized tanks for abrasive supply. If a pressurized tank is used for an abrasive supply, it should be tied in with the manual control of the nozzle mentioned in WAC 296-24-65719(2) and the relief valve or opening on the tank should be located so as to be safely vented.

(3) Blast cleaning nozzle must be equipped with an operating valve which must be held open manually.

(4) A support must be provided on which the nozzle may be mounted when it is not in use.

Note: If taken directly from the outside of the building, the air entering a blast cleaning room through the air supply inlets should be tempered during cold weather.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67519, filed 12/26/97, effective 3/1/98; Order 73-5, § 296-24-67519, filed 5/9/73 and Order 73-4, § 296-24-67519, filed 5/7/73.]

WAC 296-24-67520 Ventilation. (1) The applicable minimum requirements as specified in WAC 296-62-11003 through 296-62-11013 relating to ventilation must be followed.

(2) Blast cleaning enclosures. Blast cleaning enclosures must be exhaust-ventilated so that a continuous inward flow of air is maintained at all openings in the enclosure during blasting.

(3) Air velocities. Although the performance of the equipment will be the final criterion, the exhaust ventilation must:

(a) Keep the escape of dust from the enclosure to a minimum;

(b) Maintain a reasonable visibility in blast cleaning rooms and cabinets; and

(c) Provide for rapid clearance of the dust laden air within the enclosure to permit the enclosure to be opened.

See Appendix 1 for recommendation air velocities at blast enclosure openings.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67520, filed 12/26/97, effective 3/1/98.]

WAC 296-24-67521 Appendix 1.

Appendix 1 (Non-Mandatory)
Recommended Blast Enclosure Air Velocities

Because of the wide variety of conditions, it is not possible to set rigid standards for rates of exhaust or for control velocities that will be suited to all types of enclosures and all types of work. In general, the use of free silica abrasives and the generation of toxic dusts in abrasive blasting require higher control velocities. With well designed equipment and excellent labyrinth baffling at openings it is possible to prevent the escape of abrasives and dust with lower control velocities.

Experience has indicated that optimum air velocities into blasting enclosures are needed to minimize the escape of dust from these enclosures. These recommended air velocities are as follows:

(1) Blast cleaning cabinet. The recommended inward air velocity at the hand openings is a minimum of 500 feet per minute (fpm) calculated on the free opening without the curtains. This high control velocity is needed because the operator's working position is close to the openings.

(2) Rotary blast cleaning tables. The access openings should be baffled with multiple slit-baffle curtains. The recommended inward air velocity at the access opening is 200 to 250 fpm calculated on the free opening without the curtains.

(3) Blast cleaning rooms. In blast cleaning rooms, the air inlets should be well baffled to prevent the escape of abrasive and the recommended inward air velocity at the air inlets is a minimum of 300 fpm.

(4) Abrasive separators, bucket elevators, and other accessory abrasive handling systems. The recommended inward air velocity at all openings is 200 to 250 fpm.

Note: For further information see the following references: *Recommended Industrial Ventilation Guidelines* - NIOSH 1976 *Industrial Ventilation A Manual of Recommendation Practices* - ACGIH latest edition.

[Statutory Authority: RCW 49.17.040, [49.17].050 and [49.17].060. 98-02-006, § 296-24-67521, filed 12/26/97, effective 3/1/98.]

PART I
WELDING, CUTTING AND BRAZING

WAC 296-24-680 Welding, cutting, and brazing.

[Order 73-5, § 296-24-680, filed 5/9/73 and Order 73-4, § 296-24-680, filed 5/7/73.]

WAC 296-24-68001 Definitions. (1) "Welder" and "welding operator" mean any operator of electric or gas welding and cutting equipment.

(2) "Approved" means listed or approved by a nationally recognized testing laboratory. Refer to WAC 296-24-58501(19) for definitions of listed and approved, and federal regulation 29 CFR 1910.7 for nationally recognized testing laboratory.

(3) All other welding terms are used in accordance with American Welding Society-Terms and Definitions-A3.0-1969.

[Statutory Authority: Chapter 49.17 RCW. 88-23-054 (Order 88-25), § 296-24-68001, filed 11/14/88; Order 73-5, § 296-24-68001, filed 5/9/73 and Order 73-4, § 296-24-68001, filed 5/7/73.]

WAC 296-24-682 Installation and operation of oxygen fuel gas systems for welding and cutting.

[Order 73-5, § 296-24-682, filed 5/9/73 and Order 73-4, § 296-24-682, filed 5/7/73.]

WAC 296-24-68201 General requirements. (1) Flammable mixture. Mixtures of fuel gases and air or oxygen may be explosive and shall be guarded against. No device or attachment facilitating or permitting mixtures of air or oxygen with flammable gases prior to consumption, except at the burner or in a standard torch, shall be allowed unless approved for the purpose.

(2) Maximum pressure. Under no condition shall acetylene be generated, piped (except in approved cylinder manifolds) or utilized at a pressure in excess of 15 p.s.i. gage pressure or 30 p.s.i. absolute pressure. (The 30 p.s.i. absolute pressure limit is intended to prevent unsafe use of acetylene in pressurized chambers such as caissons, underground excavations or tunnel construction.) This requirement does not apply to storage of acetylene dissolved in a suitable solvent in cylinders manufactured and maintained according to U.S. Department of Transportation requirements, or to acetylene for chemical use. The use of liquid acetylene shall be prohibited.

(3) Apparatus. Only approved apparatus such as torches, regulators or pressure-reducing valves, acetylene generators, and manifolds shall be used. Use of replacement tips will not nullify the "approved apparatus" status of a torch, if such replacement tips are made to the same specifications as the original tip of the torch at the time of approval by the nationally recognized testing laboratory, or if the use of such tips in conjunction with convertor/adaptors results in the same specifications as the original tip at the time of approval by the nationally recognized testing laboratory.

(4) Personnel. Workers in charge of the oxygen or fuel-gas supply equipment, including generators, and oxygen or fuel-gas distribution piping systems shall be instructed and judged competent by their employers for this important work before being left in charge. Rules and instructions covering the operation and maintenance of oxygen or fuel-gas supply equipment including generators, and oxygen or fuel-gas distribution piping systems shall be readily available.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-68201, filed 7/20/94, effective 9/20/94; 89-11-035 (Order 89-03), § 296-24-68201, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-68201, filed 5/9/73 and Order 73-4, § 296-24-68201, filed 5/7/73.]

WAC 296-24-68203 Cylinders and containers. (1) Approval and marking. All portable cylinders used for the storage and shipment of compressed gases shall be constructed and maintained in accordance with the regulations of the United States Department of Transportation, 49 CFR Parts 171-179.

(a) Compressed gas cylinders shall be legibly marked, for the purpose of identifying the gas content, with either the chemical or the trade name of the gas. Such marking shall be by means of stenciling, stamping, or labeling, and shall not be readily removable. Whenever practical, the marking shall be located on the shoulder of the cylinder.

Note: This method conforms to the American National Standard Method for Marking Portable Compressed Gas Containers to Identify the Material Contained, ANSI Z 48.1-1954.

(b) Compressed gas cylinders shall be equipped with connections complying with the American National Standard Compressed Gas Cylinder Valve Outlet and Inlet Connections, ANSI B 57.1-1965.

(c) All cylinders with a water weight capacity of over thirty pounds shall be equipped with means of connecting a valve protection cap or with a collar or recess to protect the valve.

(2) Storage of cylinders - general.

(a) Cylinders shall be kept away from radiators and other sources of heat.

(b) Inside of buildings, cylinders shall be stored in a well-protected, well-ventilated, dry location, at least twenty feet from highly combustible materials such as oil or excelsior. Cylinders should be stored in definitely assigned places away from elevators, stairs, or gangways. Assigned storage spaces shall be located where cylinders will not be knocked over or damaged by passing or falling objects, or subject to tampering by unauthorized persons. Cylinders shall not be kept in unventilated enclosures such as lockers and cupboards.

(c) Empty cylinders shall have their valves closed.

(d) Valve protection caps, where cylinder is designed to accept a cap, shall always be in place, hand-tight, except when cylinders are in use or connected for use.

(3) Fuel-gas cylinder storage. Inside a building, cylinders, except those in actual use or attached ready for use, shall be limited to a total gas capacity of two thousand cubic feet or three hundred pounds of liquefied petroleum gas.

(a) For storage in excess of two thousand cubic feet total gas capacity of cylinders or three hundred pounds of liquefied petroleum gas, a separate room or compartment conforming to the requirements specified in WAC 296-24-68211 (6)(h) and (i) shall be provided, or cylinders shall be kept outside or in a special building. Special buildings, rooms or compartments shall have no open flame for heating or lighting and shall be well ventilated. They may also be used for storage of calcium carbide in quantities not to exceed six hundred pounds, when contained in metal containers complying with WAC 296-24-68213 (1)(a) and (b). Signs should be conspicuously posted in such rooms reading, "Danger—No smoking, matches or open lights, " or other equivalent wording.

(b) Acetylene cylinders shall be stored valve end up.

(4) Oxygen storage.

(a) Oxygen cylinders shall not be stored near highly combustible material, especially oil and grease; or near reserve stocks of carbide and acetylene or other fuel-gas cylinders, or near any other substance likely to cause or accelerate fire; or in an acetylene generator compartment.

(b) Oxygen cylinders stored in outside generator houses shall be separated from the generator or carbide storage rooms by a noncombustible partition having a fire-resistance rating of at least one hour. This partition shall be without openings and shall be gastight.

(c) Oxygen cylinders in storage shall be separated from fuel-gas cylinders or combustible materials (especially oil or grease), a minimum distance of twenty feet or by a noncombustible barrier at least five feet high having a fire-resistance rating of at least one-half hour. (Cylinders "in-use, " secured to a hand truck or structural member, with regulators, hoses, and torch temporarily removed for security purposes overnight or weekends, are not considered "in-storage.")

(d) Where a liquid oxygen system is to be used to supply gaseous oxygen for welding or cutting and the system has a storage capacity of more than thirteen thousand cubic feet of oxygen (measured at 14.7 psi(a) and 70°F), connected in service or ready for service, or more than twenty-five thousand cubic feet of oxygen (measured at 14.7 psi(a) and 70°F), including unconnected reserves on hand at the site, it shall comply with the provisions of the Standard for Bulk Oxygen Systems at Consumer Sites, NFPA No. 566-1965.

(5) Operating procedures.

(a) Cylinders, cylinder valves, couplings, regulators, hose, and apparatus shall be kept free from oily or greasy substances. Oxygen cylinders or apparatus shall not be handled with oily hands or gloves. A jet of oxygen must never be permitted to strike an oily surface, greasy clothes, or enter a fuel oil or other storage tank.

(b) When transporting cylinders by a crane or derrick, a cradle, boat, or suitable platform shall be used. Slings or electric magnets shall not be used for this purpose. Valve-protection caps, where cylinder is designed to accept a cap, shall always be in place.

(c) Cylinders shall not be dropped or struck or permitted to strike each other violently.

(d) Valve-protection caps shall not be used for lifting cylinders from one vertical position to another. Bars shall not be used under valves or valve-protection caps to pry cylinders loose when frozen to the ground or otherwise fixed; the use of warm (not boiling) water is recommended. Valve-protection caps are designed to protect cylinder valves from damage.

(e) Unless cylinders are secured on a special truck, regulators shall be removed and valve-protection caps, when provided for, shall be put in place before cylinders are moved.

(f) Cylinders not having fixed hand wheels shall have keys, handles, or nonadjustable wrenches on valve stems while these cylinders are in service. In multiple cylinder installations only one key or handle is required for each manifold.

(g) Cylinder valves shall be closed before moving cylinders.

(h) Cylinder valves shall be closed when work is finished.

(i) Valves of empty cylinders shall be closed.

(j) Cylinders shall be kept far enough away from the actual welding or cutting operation so that sparks, hot slag, or flame will not reach them, or fire-resistant shields shall be provided.

(k) Cylinders shall not be placed where they might become part of an electric circuit. Contacts with third rails, trolley wires, etc., shall be avoided. Cylinders shall be kept away from radiators, piping systems, layout tables, etc., that may be used for grounding electric circuits such as for arc welding machines. Any practice such as the tapping of an electrode against a cylinder to strike an arc shall be prohibited.

(l) Cylinders shall never be used as rollers or supports, whether full or empty.

(m) The numbers and markings stamped into cylinders shall not be tampered with.

(n) No person, other than the gas supplier, shall attempt to mix gases in a cylinder. No one, except the owner of the cylinder or the person authorized by the owner, shall refill a cylinder.

(o) No one shall tamper with safety devices in cylinders or valves.

(p) Cylinders shall not be dropped or otherwise roughly handled.

(q) Unless connected to a manifold, oxygen from a cylinder shall not be used without first attaching an oxygen regulator to the cylinder valve. Before connecting the regulator to the cylinder valve, the valve shall be opened slightly for an instant and then closed. (Always stand to one side of the outlet when opening the cylinder valve.)

(r) A hammer or wrench shall not be used to open cylinder valves. If valves cannot be opened by hand, the supplier shall be notified.

(s) Cylinder valves shall not be tampered with nor should any attempt be made to repair them. If trouble is experienced, the supplier should be sent a report promptly indicating the character of the trouble and the cylinder's serial number. Supplier's instructions as to its disposition shall be followed.

(t) Complete removal of the stem from a diaphragm-type cylinder valve shall be avoided.

(u) Fuel-gas cylinders shall be placed with valve end up whenever they are in use. Liquefied gases shall be stored and shipped with the valve end up.

(v) Cylinders shall be handled carefully. Cylinders shall not be subjected to rough handling, knocks, or falls which are liable to damage the cylinder, valve or safety devices and cause leakage.

(w) Before connecting a regulator to a cylinder valve, the valve shall be opened slightly and closed immediately. The valve shall be opened while standing to one side of the outlet; never in front of it. Fuel-gas cylinder valves shall not be cracked near other welding work or near sparks, flame, or other possible sources of ignition.

(x) Before a regulator is removed from a cylinder valve, the cylinder valve shall be closed and the gas released from the regulator.

(y) Nothing shall be placed on top of an acetylene cylinder when in use which may damage the safety device or interfere with the quick closing of the valve.

(z) If cylinders are found to have leaky valves or fittings which cannot be stopped by closing of the valve, the cylinders shall be taken outdoors away from sources of ignition and slowly emptied.

(aa) A warning should be placed near cylinders having leaking fuse plugs or other leaking safety devices not to approach them with a lighted cigarette or other source of ignition. Such cylinders should be plainly tagged; the supplier should be promptly notified and instructions provided by the supplier shall be followed as to their return.

(bb) Safety devices shall not be tampered with.

(cc) Fuel-gas shall not be used from cylinders through torches or other devices equipped with shutoff valves without reducing the pressure through a suitable regulator attached to the cylinder valve or manifold.

(dd) The cylinder valve shall always be opened slowly.

(ee) An acetylene cylinder valve shall not be opened more than one and one-half turns of the spindle, and preferably no more than three-fourths of a turn.

(ff) Where a special wrench is required it shall be left in position on the stem of the valve while the cylinder is in use so that the fuel-gas flow can be quickly turned off in case of emergency. In the case of manifolded or coupled cylinders at least one such wrench shall always be available for immediate use.

(gg) When cylinders are transported by powered vehicle they shall be secured in a vertical position.

(hh) A suitable cylinder truck, chain, or other steadying device shall be used to prevent cylinders from being knocked over while in use.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-68203, filed 1/10/91, effective 2/12/91; 88-11-021 (Order 88-04), § 296-24-68203, filed 5/11/88; Order 73-5, § 296-24-68203, filed 5/9/73 and Order 73-4, § 296-24-68203, filed 5/7/73.]

WAC 296-24-68205 Manifolding of cylinders. (1) Fuel-gas manifolds.

(a) Manifolds shall be approved either separately for each component part or as an assembled unit.

(b) Except as provided in (1)(c) of this section fuel-gas cylinders connected to one manifold inside a building shall be limited to a total capacity not exceeding 300 pounds of liquefied petroleum gas or 3,000 cubic feet of other fuel-gas. More than one such manifold with connected cylinders may be located in the same room provided the manifolds are at least 50 feet apart or separated by a noncombustible barrier at least 5 feet high having a fire-resistance rating of at least one-half hour.

(c) Fuel-gas cylinders connected to one manifold having an aggregate capacity exceeding 300 pounds of liquefied petroleum gas or 3,000 cubic feet of other fuel-gas shall be located outdoors, or in a separate building or room constructed in accordance with WAC 296-24-68211 (6)(h) and (i).

(d) Separate manifold buildings or rooms may also be used for the storage of drums of calcium carbide and cylinders containing fuel gases as provided in WAC 296-24-68203(3). Such buildings or rooms shall have no open flames for heating or lighting and shall be well-ventilated.

(e) High-pressure fuel-gas manifolds shall be provided with approved pressure regulating devices.

(2) High-pressure oxygen manifolds (for use with cylinders having a department of transportation service pressure above 200 p.s.i.g.).

(a) Manifolds shall be approved either separately for each component or as an assembled unit.

(b) Oxygen manifolds shall not be located in an acetylene generator room. Oxygen manifolds shall be separated from fuel-gas cylinders or combustible materials (especially oil or grease), a minimum distance of 20 feet or by a noncombustible barrier at least 5 feet high having a fire-resistance rating of at least one-half hour.

(c) Except as provided in WAC 296-24-68205 (2)(d) oxygen cylinders connected to one manifold shall be limited to a total gas capacity of 6,000 cubic feet. More than one such manifold with connected cylinders may be located in the same room provided the manifolds are at least 50 feet apart or separated by a noncombustible barrier at least 5 feet high having a fire-resistance rating of at least one-half hour.

(d) An oxygen manifold, to which cylinders having an aggregate capacity of more than 6,000 cubic feet of oxygen are connected, should be located outdoors or in a separate noncombustible building. Such a manifold, if located inside a building having other occupancy, shall be located in a separate room of noncombustible construction having a fire-resistance rating of at least one-half hour or in an area with no combustible material within 20 feet of the manifold.

(e) An oxygen manifold or oxygen bulk supply system which has storage capacity of more than 13,000 cubic feet of oxygen (measured at 14.7 p.s.i.a. and 70°F), connected in service or ready for service, or more than 25,000 cubic feet of oxygen (measured at 14.7 p.s.i.a. and 70 °F), including unconnected reserves on hand at the site, shall comply with the provisions of the Standard for Bulk Oxygen Systems at Consumer Sites, NFPA No. 566-1965.

(f) High-pressure oxygen manifolds shall be provided with approved pressure-regulating devices.

(3) Low-pressure oxygen manifolds (for use with cylinders having a department of transportation service pressure not exceeding 200 p.s.i.g.).

(a) Manifolds shall be of substantial construction suitable for use with oxygen at a pressure of 250 p.s.i.g. They shall have a minimum bursting pressure of 1,000 p.s.i.g. and shall be protected by a safety relief device which will relieve at a maximum pressure of 500 p.s.i.g.

Note: DOT-4L200 cylinders have safety devices which relieve at a maximum pressure of 250 p.s.i.g. (or 235 p.s.i.g. if vacuum insulation is used).

(b) Hose and hose connections subject to cylinder pressure shall comply with WAC 296-24-68209(5). Hose shall have a minimum bursting pressure of 1,000 p.s.i.g.

(c) The assembled manifold including leads shall be tested and proven gas-tight at a pressure of 300 p.s.i.g. The fluid used for testing oxygen manifolds shall be oil-free and not combustible.

(d) The location of manifolds shall comply with WAC 296-24-68205 (2)(b), (c), (d) and (e).

(e) The following sign shall be conspicuously posted at each manifold:

Low-Pressure Manifold
Do Not Connect High-Pressure Cylinders
Maximum Pressure—250 P.S.I.G.

(4) Portable outlet headers.

(a) Portable outlet headers shall not be used indoors except for temporary service where the conditions preclude a direct supply from outlets located on the service piping system.

(b) Each outlet on the service piping from which oxygen or fuel-gas is withdrawn to supply a portable outlet header shall be equipped with a readily accessible shutoff valve.

(c) Hose and hose connections used for connecting the portable outlet header to the service piping shall comply with WAC 296-24-68209(5).

(d) Master shutoff valves for both oxygen and fuel-gas shall be provided at the entry end of the portable outlet header.

(e) Portable outlet headers for fuel-gas service shall be provided with an approved hydraulic back-pressure valve installed at the inlet and preceding the service outlets, unless an approved pressure-reducing regulator, an approved backflow check valve, or an approved hydraulic back-pressure valve is installed at each outlet. Outlets provided on headers for oxygen service may be fitted for use with pressure-reducing regulators or for direct hose connection.

(f) Each service outlet on portable outlet headers shall be provided with a valve assembly that includes a detachable outlet seal cap, chained or otherwise attached to the body of the valve.

(g) Materials and fabrication procedures for portable outlet headers shall comply with WAC 296-24-68207 (1), (2) and (5).

(h) Portable outlet headers shall be provided with frames which will support the equipment securely in the correct operating position and protect them from damage during handling and operation.

(5) Manifold operating procedures.

(a) Cylinder manifolds shall be installed under the supervision of someone familiar with the proper practices with reference to their construction and use.

(b) All component parts used in the methods of manifolding described in (1)(a) through (e) of this section shall be approved as to materials, design and construction either separately or as an assembled unit.

(c) All manifolds and parts used in methods of manifolding shall be used only for the gas or gases for which they are approved.

(d) When acetylene cylinders are coupled, approved flash arresters shall be installed between each cylinder and the coupler block. For outdoor use only, and when the number of cylinders coupled does not exceed three, one flash arrester installed between the coupler block and regulator is acceptable.

(e) Each fuel-gas cylinder lead should be provided with a backflow check valve.

(f) The aggregate capacity of fuel-gas cylinders connected to a portable manifold inside a building shall not exceed 3,000 cubic feet of gas.

(g) Acetylene and liquefied fuel-gas cylinders shall be manifolded in a vertical position.

(h) The pressure in the gas cylinders connected to and discharged simultaneously through a common manifold shall be approximately equal.

[Order 73-5, § 296-24-68205, filed 5/9/73 and Order 73-4, § 296-24-68205, filed 5/7/73.]

WAC 296-24-68207 Service piping systems. (1) Materials and design. (a) Piping and fittings shall comply with Section 2, Industrial Gas and Air Piping Systems, of the American National Standard Code for Pressure Piping, ANSI B 31.1-1967, insofar as it does not conflict with WAC 296-24-68207 (1)(b) and (c).

(b) Pipe shall be at least Schedule 40 and fittings shall be at least standard weight in sizes up to and including 6-inch nominal.

(c) Copper tubing shall be Types K or L in accordance with the Standard Specification for Seamless Copper Water Tube, ASTM B88-66a.

(d) Piping shall be steel, wrought iron, brass or copper pipe, or seamless copper, brass or stainless steel tubing, except as provided in WAC 296-24-68207 (1)(e), (f), (g), (h) and (i).

(e) Oxygen piping and fittings at pressures in excess of 700 p.s.i.g., shall be stainless steel or copper alloys.

(f) Hose connections and hose complying with WAC 296-24-68209(5) may be used to connect the outlet of a manifold pressure regulator to piping providing the working pressure of the piping is 250 p.s.i.g. or less and the length of the hose does not exceed 5 feet. Hose shall have a minimum bursting pressure of 1,000 p.s.i.g.

(g) When oxygen is supplied to a service piping system from a low-pressure oxygen manifold without an intervening pressure regulating device, the piping system shall have a minimum design pressure of 250 p.s.i.g. A pressure regulating device shall be used at each station outlet when the connected equipment is for use at pressures less than 250 p.s.i.g.

(h) Piping for acetylene or acetylenic compounds shall be steel or wrought iron.

(i) Unalloyed copper shall not be used for acetylene or acetylenic compounds except in listed equipment.

(2) Piping joints.

(a) Joints in steel or wrought iron piping shall be welded, threaded or flanged. Fittings, such as ells, tees, couplings, and unions, may be rolled, forged or cast steel, maleable iron or nodular iron. Gray or white cast iron fittings are prohibited.

(b) Joints in brass or copper pipe shall be welded, brazed, threaded, or flanged. If of the socket type, they shall be brazed with silver-brazing alloy or similar high melting point (not less than 800°F) filler metal.

(c) Joints in seamless copper, brass, or stainless steel tubing shall be approved gas tubing fittings or the joints shall be brazed. If of the socket type, they shall be brazed with silver-brazing alloy or similar high melting point (not less than 800°F) filler metal.

(3) Installation.

(a) Distribution lines shall be installed and maintained in a safe operating condition.

(b) Piping located inside or outside of buildings may be placed above or below ground. All piping shall be run as directly as practicable, protected against physical damage, proper allowance being made for expansion and contraction, jarring and vibration. Pipe laid underground in earth shall be located below the frost line and protected against corrosion. After assembly, piping shall be thoroughly blown out with air or nitrogen to remove foreign materials. For oxygen piping, only oil-free air, oil-free nitrogen, or oil-free carbon dioxide shall be used.

(c) Only piping which has been welded or brazed shall be installed in tunnels, trenches or ducts. Shutoff valves shall be located outside such conduits. Oxygen piping may be placed in the same tunnel, trench or duct with fuel-gas pipelines, provided there is good natural or forced ventilation.

(d) Low points in piping carrying moist gas shall be drained into drip pots constructed so as to permit pumping or draining out the condensate at necessary intervals. Drain valves shall be installed for this purpose having outlets normally closed with screw caps or plugs. No open end valves or petcocks shall be used, except that in drips located out of doors, underground, and not readily accessible, valves may be used at such points if they are equipped with means to secure them in the closed position. Pipes leading to the surface of the ground shall be cased or jacketed where necessary to prevent loosening or breaking.

(e) Gas cocks or valves shall be provided for all buildings at points where they will be readily accessible for shutting off the gas supply to these buildings in any emergency. Underground valve boxes or manholes should be avoided wherever possible. There shall also be provided a shutoff valve in the discharge line from the generator, gas holder, manifold or other source of supply.

(f) Shutoff valves shall not be installed in safety relief lines in such a manner that the safety relief device can be rendered ineffective.

(g) Fittings and lengths of pipe shall be examined internally before assembly and, if necessary, freed from scale or dirt. Oxygen piping and fittings shall be washed out with a suitable solution which will effectively remove grease and dirt but will not react with oxygen.

Note: Hot water solutions of caustic soda or trisodium phosphate are effective cleaning agents for this purpose.

(h) Piping shall be thoroughly blown out after assembly to remove foreign materials. For oxygen piping, oil-free air, oil-free nitrogen, or oil-free carbon dioxide shall be used. For other piping, air or inert gas may be used.

(i) When flammable gas lines or other parts of equipment are being purged of air or gas, open lights or other sources of ignition shall not be permitted near uncapped openings.

(j) No welding or cutting shall be performed on an acetylene or oxygen pipeline, including the attachment of hangers or supports, until the line has been purged. Only oil-free air, oil-free nitrogen, or oil-free carbon dioxide shall be used to purge oxygen lines.

(4) Painting and signs.

(a) Underground pipe and tubing and outdoor ferrous pipe and tubing shall be covered or painted with a suitable material for protection against corrosion.

(b) Aboveground piping systems shall be marked in accordance with the American National Standard Scheme for the Identification of Piping Systems, ANSI A 13.1-1956.

(c) Station outlets shall be marked to indicate the name of the gas.

(5) Testing.

(a) Piping systems shall be tested and proved gastight at 1 1/2 times the maximum operating pressure, and shall be thoroughly purged of air before being placed in service. The material used for testing oxygen lines shall be oil free and noncombustible. Flames shall not be used to detect leaks.

(b) When flammable gas lines or other parts of equipment are being purged of air or gas, sources of ignition shall not be permitted near uncapped openings.

[Order 73-5, § 296-24-68207, filed 5/9/73 and Order 73-4, § 296-24-68207, filed 5/7/73.]

WAC 296-24-68209 Protective equipment, hose, and regulators. (1) General. Equipment shall be installed and used only in the service for which it is approved and as recommended by the manufacturer.

(2) Pressure relief devices. Service piping systems shall be protected by pressure relief devices set to function at not more than the design pressure of the systems and discharging upwards to a safe location.

(3) Piping protective equipment.

(a) The fuel-gas and oxygen piping systems, including portable outlet headers shall incorporate the protective equipment shown in Figures Q-1, Q-2, and Q-3.

When only a portion of a fuel-gas system is to be used with oxygen, only that portion need comply with (3)(a) of this section.

(b) Approved protective equipment (designated P_F in Figs. Q-1, Q-2, and Q-3) shall be installed in fuel-gas piping to prevent:

(i) Backflow of oxygen into the fuel-gas supply system;

(ii) Passage of a flash back into the fuel-gas supply system; and

(iii) Excessive back pressure of oxygen in the fuel-gas supply system. The three functions of the protective equipment may be combined in one device or may be provided by separate devices.

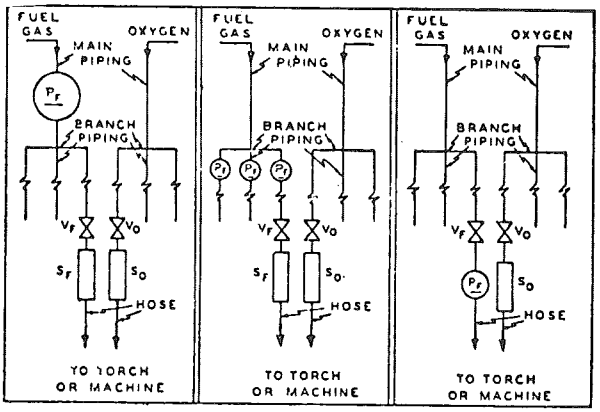


Fig. Q-1 Fig. Q-2 Fig. Q-3

LEGEND

P_F—Protective equipment in fuel gas piping
V_F—Fuel gas station outlet valve
V_O—Oxygen station outlet valve
S_F—Backflow prevention device(s) at fuel gas station outlet
S_O—Backflow prevention device(s) at oxygen station outlet

(c) The protective equipment shall be located in the main supply line, as in Figure Q-1 or at the head of each branch line, as in Figure Q-2 or at each location where fuel-gas is withdrawn, as in Figure Q-3. Where branch lines are of 2-inch pipe size or larger or of substantial length, protective equipment (designated as P_F) shall be located as shown in either Q-2 and Q-3.

(d) Backflow protection shall be provided by an approved device that will prevent oxygen from flowing into the fuel-gas system or fuel from flowing into the oxygen system (see S_F, Figs. Q-1 and Q-2).

(e) Flash-back protection shall be provided by an approved device that will prevent flame from passing into the fuel-gas system.

(f) Back-pressure protection shall be provided by an approved pressure-relief device set at a pressure not greater than the pressure rating of the backflow or the flashback protection device, whichever is lower. The pressure-relief device shall be located on the downstream side of the backflow and flashback protection devices. The vent from the pressure-relief device shall be at least as large as the relief device inlet and shall be installed without low points that may collect moisture. If low points are unavoidable, drip pots with drains closed with screw plugs or caps shall be installed at the low points. The vent terminus shall not endanger personnel or property through gas discharge; shall be located away from ignition sources; and shall terminate in a hood or bend.

(g) If pipeline protective equipment incorporates a liquid, the liquid level shall be maintained, and a suitable anti-freeze may be used to prevent freezing.

(h) Fuel gas for use with equipment not requiring oxygen shall be withdrawn upstream of the piping protective devices.

(4) Station outlet protective equipment.

(a) A check valve pressure regulator, hydraulic seal, or combination of these devices shall be provided at each station outlet, including those on portable headers, to prevent backflow, as shown in Figures Q-1, Q-2, and Q-3 and designated as S_F and S_O.

(b) When approved pipeline protective equipment (designated P_F) is located at the station outlet as in Figure Q-3, no additional check valve, pressure regulator, or hydraulic seal is required.

(c) A shutoff valve (designated V_F and V_O) shall be installed at each station outlet and shall be located on the upstream side of other station outlet equipment.

(d) If the station outlet is equipped with a detachable regulator, the outlet shall terminate in a union connection that complies with the Regulator Connection Standards, 1958, Compressed Gas Association.

(e) If the station outlet is connected directly to a hose, the outlet shall terminate in a union connection complying with the Standard Hose Connection Specifications, 1957, Compressed Gas Association.

(f) Station outlets may terminate in pipe threads to which permanent connections are to be made, such as to a machine.

(g) Station outlets shall be equipped with a detachable outlet seal cap secured in place. This cap shall be used to seal the outlet except when a hose, a regulator, or piping is attached.

(h) Where station outlets are equipped with approved backflow and flashback protective devices, as many as four torches may be supplied from one station outlet through rigid piping, provided each outlet from such piping, is equipped with a shutoff valve and provided the fuel-gas capacity of any one torch does not exceed 15 cubic feet per hour. This rule does not apply to machines.

(5) Hose and hose connections.

(a) Hose for oxy-fuel gas service shall comply with the Specification for Rubber Welding Hose, 1958, Compressed Gas Association and Rubber Manufacturers Association.

(b) The generally recognized colors are red for acetylene and other fuel-gas hose, green for oxygen hose, and black for inert-gas and air hose.

(c) When parallel lengths of oxygen and acetylene hose are taped together for convenience and to prevent tangling, not more than 4 inches out of 12 inches shall be covered by tape.

(d) Hose connections shall comply with the Standard Hose Connection Specifications, 1957, Compressed Gas Association.

(e) Hose connections shall be clamped or otherwise securely fastened in a manner that will withstand, without leakage, twice the pressure to which they are normally subjected in service, but in no case less than a pressure of 300 p.s.i. Oil-free air or an oil-free inert gas shall be used for the test.

(f) Hose showing leaks, burns, worn places, or other defects rendering it unfit for service shall be repaired or replaced.

(6) Pressure-reducing regulators.

(a) Pressure-reducing regulators shall be used only for the gas and pressures for which they are intended. The regulator inlet connections shall comply with Regulator Connection Standards, 1958, Compressed Gas Association.

(b) When regulators or parts of regulators, including gages, need repair, the work shall be performed by skilled mechanics who have been properly instructed.

(c) Gages on oxygen regulators shall be marked "USE NO OIL."

(d) Union nuts and connections on regulators shall be inspected before use to detect faulty seats which may cause leakage of gas when the regulators are attached to the cylinder valves. Damaged nuts or connections shall be destroyed.

[Order 73-5, § 296-24-68209, filed 5/9/73 and Order 73-4, § 296-24-68209, filed 5/7/73.]

WAC 296-24-68211 Acetylene generators. (1) Approval and marking.

(a) Generators shall be of approved construction and shall be plainly marked with the maximum rate of acetylene in cubic feet per hour for which they are designed; the weight and size of carbide necessary for a single charge; the manufacturer's name and address; and the name or number of the type of generator.

(b) Carbide shall be of the size marked on the generator nameplate.

(2) Rating and pressure limitations.

(a) The total hourly output of a generator shall not exceed the rate for which it is approved and marked. Unless specifically approved for higher ratings, carbide-feed generators shall be rated at 1 cubic foot per hour per pound of carbide required for a single complete charge.

(b) Relief valves shall be regularly operated to insure proper functioning. Relief valves for generating chambers shall be set to open at a pressure not in excess of 15 p.s.i.g. Relief valves for hydraulic back pressure valves shall be set to open at a pressure not in excess of 20 p.s.i.g.

(c) Nonautomatic generators shall not be used for generating acetylene at pressures exceeding 1 p.s.i.g., and all water overflows shall be visible.

(3) Location. The space around the generator shall be ample for free, unobstructed operation and maintenance and shall permit ready adjustment and charging.

(4) Stationary acetylene generators (automatic and nonautomatic).

(a) The foundation shall be so arranged that the generator will be level and so that no excessive strain will be placed on the generator or its connections. Acetylene generators shall be grounded.

(b) Generators shall be placed where water will not freeze. The use of common salt (sodium chloride) or other corrosive chemicals for protection against freezing is not permitted. (For heating systems see WAC 296-24-68211 (6)(k).)

(c) Except when generators are prepared in accordance with WAC 296-24-68211 (7)(i), sources of ignition shall be prohibited in outside generator houses or inside generator rooms.

(d) Water shall not be supplied through a continuous connection to the generator except when the generator is provided with an adequate open overflow or automatic water shutoff which will effectively prevent overfilling of the generator. Where a noncontinuous connection is used, the supply line shall terminate at a point not less than 2 inches above the regularly provided opening for filling so that the water can be observed as it enters the generator.

(e) Unless otherwise specifically approved, generators shall not be fitted with continuous drain connections leading to sewers, but shall discharge through an open connection into a suitably vented outdoor receptacle or residue pit which may have such connections. An open connection for the sludge drawoff is desirable to enable the generator operator to observe leakage of generating water from the drain valve or sludge cock.

(f) Each generator shall be provided with a vent pipe of Schedule 40 galvanized iron or steel, except that outside of buildings, vent pipes larger than 4 inches in diameter may be not less than 14 gage galvanized tubing or sheet steel.

(g) The escape or relief pipe shall be rigidly installed without traps and so that any condensation will drain back to the generator.

(h) The escape or relief pipe shall be carried full size to a suitable point outside the building. It shall terminate in a hood or bend located at least 12 feet above the ground, preferably above the roof, and as far away as practicable from windows or other openings into buildings and as far away as practicable from sources of ignition such as flues or chimneys and tracks used by locomotives. Generating chamber relief pipes shall not be inter-connected but shall be separately led to the outside air. The hood or bend shall be so constructed that it will not be obstructed by rain, snow, ice, insects, or birds. The outlet shall be at least 3 feet from combustible construction.

(i) Gas holders shall be constructed on the gasometer principle, the bell being suitably guided. The gas bell shall move freely without tendency to bind and shall have a clearance of at least 2 inches from the shell.

(j) The gas holder may be located in the generator room, in a separate room or out of doors. In order to prevent collapse of the gas bell or infiltration of air due to a vacuum caused by the compressor or booster pump or cooling of the gas, a compressor or booster cutoff shall be provided at a point 12 inches or more above the landing point of the bell. When the gas holder is located indoors, the room shall be ventilated in accordance with WAC 296-24-68211 (6)(j) and heated and lighted in accordance with WAC 296-24-68211 (6)(k) and (1).

(k) When the gas holder is not located within a heated building, gas holder seals shall be protected against freezing.

(l) Means shall be provided to stop the generator-feeding mechanism before the gas holder reaches the upper limit of its travel.

(m) When the gas holder is connected to only one generator, the gas capacity of the holder shall be not less than one-third of the hourly rating of the generator.

(n) If acetylene is used from the gas holder without increase in pressure at some points but with increase in pressure by a compressor or booster pump at other points, approved piping protective devices shall be installed in each supply line. The low-pressure protective device shall be located between the gas holder and the shop piping, and the medium-pressure protective device shall be located between the compressor or booster pump and the shop piping (see Figure Q-4). Approved protective equipment (designated P_F) is used to prevent: Backflow of oxygen into the fuel-gas supply system; passage of a flashback into the fuel-gas supply system; and excessive back pressure of oxygen in the fuel-gas supply system. The three functions of the protective equipment may be combined in one device or may be provided by separate devices.

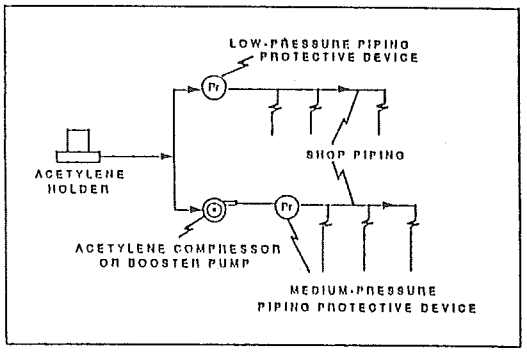


Figure Q-4

(o) The compressor or booster system shall be of an approved type.

(p) Wiring and electrical equipment in compressor or booster pump rooms or enclosures shall conform to the provisions of chapter 296-24 WAC Part L for Class I, Division 2 locations.

(q) Compressors and booster pump equipment shall be located in well-ventilated areas away from open flames, electrical or mechanical sparks, or other ignition sources.

(r) Compressor or booster pumps shall be provided with pressure relief valves which will relieve pressure exceeding 15 p.s.i.g. to a safe outdoor location as provided in WAC

296-24-68211 (2)(b), or by returning the gas to the inlet side or to the gas supply source.

(s) Compressor or booster pump discharge outlets shall be provided with approved protective equipment. (See WAC 296-24-68211 (4)(e).)

(5) Portable acetylene generators.

(a) All portable generators shall be of a type approved for portable use.

(b) Portable generators shall not be used within 10 feet of combustible material other than the floor.

(c) Portable generators shall not be used in rooms of total volume less than 35 times the total gas-generating capacity per charge of all generators in the room. Generators shall not be used in rooms having a ceiling height of less than 10 feet. (To obtain the gas-generating capacity in cubic feet per charge, multiply the pounds of carbide per charge by 4.5.)

(d) Portable generators shall be protected against freezing. The use of salt or other corrosive chemical to prevent freezing is prohibited.

(e) Portable generators shall be cleaned and recharged and the air mixture blown off outside buildings.

(f) When charged with carbide, portable generators shall not be moved by crane or derrick.

(g) When not in use, portable generators shall not be stored in rooms in which open flames are used unless the generators contain no carbide and have been thoroughly purged of acetylene. Storage rooms shall be well ventilated.

(h) When portable acetylene generators are to be transported and operated on vehicles, they shall be securely anchored to the vehicles. If transported by truck, the motor shall be turned off during charging, cleaning, and generating periods.

(i) Portable generators shall be located at a safe distance from the welding position so that they will not be exposed to sparks, slag, or misdirection of the torch flame or overheating from hot materials or processes.

(6) Outside generator houses and inside generator rooms for stationary acetylene generators.

(a) No opening in any outside generator house shall be located within 5 feet of any opening in another building.

(b) Walls, floors and roofs of outside generator houses shall be of noncombustible construction.

(c) When a part of the generator house is to be used for the storage or manifolding of oxygen cylinders, the space to be so occupied shall be separated from the generator carbide storage section by partition walls continuous from floor to roof or ceiling, of the type of construction stated in WAC 296-24-68211 (6)(h). Such separation walls shall be without openings and shall be joined to the floor, other walls and ceiling or roof in a manner to effect a permanent gas-tight joint.

(d) Exit doors shall be located so as to be readily accessible in case of emergency.

(e) Explosion venting for outside generator houses and inside generator rooms shall be provided in exterior walls or roofs. The venting areas shall be equal to not less than 1 square foot per 50 cubic feet of room volume and may consist of any one or any combination of the following: Walls of light, noncombustible material preferably single-thickness, single-strength glass; lightly fastened hatch covers; lightly fastened swinging doors in exterior walls opening outward; lightly fastened walls or roof designed to relieve at a maximum pressure of 25 pounds per square foot.

(f) The installation of acetylene generators within buildings shall be restricted to buildings not exceeding one story in height: Provided, however, That this will not be construed as prohibiting such installations on the roof or top floor of a building exceeding such height.

(g) Generators installed inside buildings shall be enclosed in a separate room of ample size.

(h) The walls, partitions, floors, and ceilings of inside generator rooms shall be of noncombustible construction having a fire-resistance rating of at least 1 hour. The walls or partitions shall be continuous from floor to ceiling and shall be securely anchored. At least one wall of the room shall be an exterior wall.

(i) Openings from an inside generator room to other parts of the building shall be protected by a swinging type, self-closing fire door for a Class B opening and having a rating of at least 1 hour. Windows in partitions shall be wired glass and approved metal frames with fixed sash. Installation shall be in accordance with the Standard for the Installation of Fire Doors and Windows, NFPA 80-1970.

(j) Inside generator rooms or outside generator houses shall be well ventilated with vents located at floor and ceiling levels.

(k) Heating shall be by steam, hot water, enclosed electrically heated elements or other indirect means. Heating by flames or fires shall be prohibited in outside generator houses or inside generator rooms, or in any enclosure communicating with them.

(l) Generator houses or rooms shall have natural light during daylight hours. Where artificial lighting is necessary it shall be restricted to electric lamps installed in a fixed position. Unless specifically approved for use in atmospheres containing acetylene, such lamps shall be provided with enclosures of glass or other noncombustible material so designed and constructed as to prevent gas vapors from reaching the lamp or socket and to resist breakage. Rigid conduit with threaded connections shall be used.

(m) Lamps installed outside of wired-glass panels set in gas-tight frames in the exterior walls or roof of the generator house or room are acceptable.

(n) Electric switches, telephones, and all other electrical apparatus which may cause a spark, unless specifically approved for use inside acetylene generator rooms, shall be located outside the generator house or in a room or space separated from the generator room by a gas-tight partition, except that where the generator system is designed so that no carbide fill opening or other part of the generator is open to the generator house or room during the operation of the generator, and so that residue is carried in closed piping from the residue discharge valve to a point outside the generator house or room, electrical equipment in the generator house or room shall conform to the provisions of the chapter 296-24 WAC Part L for Class I, Division 2 locations.

(7) Maintenance and operation.

(a) Unauthorized persons shall not be permitted in outside generator houses or inside generator rooms.

(b) Operating instructions shall be posted in a conspicuous place near the generator or kept in a suitable place available for ready reference.

(c) When recharging generators the order of operations specified in the instructions supplied by the manufacturer shall be followed.

(d) In the case of batch-type generators, when the charge of carbide is exhausted and before additional carbide is added, the generating chamber shall always be flushed out with water, renewing the water supply in accordance with the instruction card furnished by the manufacturer.

(e) The water-carbide residue mixture drained from the generator shall not be discharged into sewer pipes or stored in areas near open flames. Clear water from residue settling pits may be discharged into sewer pipes.

(f) The carbide added each time the generator is recharged shall be sufficient to refill the space provided for carbide without ramming the charge. Steel or other ferrous tools shall not be used in distributing the charge.

(g) Generator water chambers shall be kept filled to proper level at all times except while draining during the recharging operation.

(h) Whenever repairs are to be made or the generator is to be charged or carbide is to be removed, the water chamber shall be filled to the proper level.

(i) Previous to making repairs involving welding, soldering, or other hot work or other operations which produce a source of ignition, the carbide charge and feed mechanism shall be completely removed. All acetylene shall be expelled by completely flooding the generator shell with water and the generator shall be disconnected from the piping system. The generator shall be kept filled with water, if possible, or positioned to hold as much water as possible.

(j) Hot repairs shall not be made in a room where there are other generators unless all the generators and piping have been purged of acetylene. Hot repairs should preferably be made out of doors.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-68211, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-68211, filed 5/9/73 and Order 73-4, § 296-24-68211, filed 5/7/73.]

WAC 296-24-68213 Calcium carbide storage. (1) Packaging.

(a) Calcium carbide shall be contained in metal packages of sufficient strength to prevent rupture. The packages shall be provided with a screw top or equivalent. These packages shall be constructed water- and air-tight. Solder shall not be used in such a manner that the package will fail if exposed to fire.

(b) Packages containing calcium carbide shall be conspicuously marked "calcium carbide-dangerous if not kept dry" or with equivalent warning.

(c) Caution: Metal tools, even the so-called spark resistant type may cause ignition of an acetylene and air mixture when opening carbide containers.

(d) Sprinkler systems shall not be installed in carbide storage rooms.

(2) Storage indoors.

(a) Calcium carbide in quantities not to exceed 600 pounds may be stored indoors in dry, waterproof, and well-ventilated locations.

(b) Calcium carbide not exceeding 600 pounds may be stored indoors in the same room with fuel-gas cylinders.

(c) Packages of calcium carbide, except for one of each size, shall be kept sealed. The seals shall not be broken when there is carbide in excess of 1 pound in any other unsealed package of the same size of carbide in the room.

(d) Calcium carbide exceeding 600 pounds but not exceeding 5,000 pounds shall be stored:

(i) In accordance with (2)(e) of this section.

(ii) In an inside generator room or outside generator house; or

(iii) In a separate room in a one-story building which may contain other occupancies, but without cellar or basement beneath the carbide storage section. Such rooms shall be constructed in accordance with WAC 296-24-68211 (6)(h) and (i) and ventilated in accordance with WAC 296-24-68211 (6)(j). These rooms shall be used for no other purpose.

(e) Calcium carbide in excess of 5,000 pounds shall be stored in one-story buildings without cellar or basement and used for no other purpose, or in outside generator houses. The location of such storage buildings shall be away from congested mercantile and manufacturing districts. If the storage building is of noncombustible construction, it may adjoin other one-story buildings if separated therefrom by unpierced firewalls; if it is detached less than 10 feet from such building or buildings, there shall be no opening in any of the mutually exposing sides of such buildings within 10 feet. If the storage building is of combustible construction, it shall be at least 20 feet from any other one- or two-story building, and at least 30 feet from any other building exceeding two stories.

(3) Storage outdoors.

(a) Calcium carbide in unopened metal containers may be stored outdoors.

(b) Carbide containers to be stored outdoors shall be examined to make sure that they are airtight and watertight. Periodic reexaminations shall be made for rusting or other damage to a container that might affect its water or air tightness.

(c) The bottom tier of each row shall be placed on wooden planking or equivalent so that the containers will not come in contact with the ground or ground water.

(d) Storage areas shall be at least 10 feet from lines of adjoining property that may be built upon.

(e) Containers of carbide which have been in storage the longest shall be used first.

[Order 73-5, § 296-24-68213, filed 5/9/73 and Order 73-4, § 296-24-68213, filed 5/7/73.]

WAC 296-24-68215 Public exhibitions and demonstrations. (1) Installation requirements. Installation and operation of welding, cutting, and related equipment shall be done by, or under the supervision of, a competent operator to insure the personal protection of viewers and demonstrators as well as the protection from fire, of materials in and around the site and the building itself.

(2) Procedures.

(a) Cylinders containing compressed gases for use at the site shall not be charged in excess of one-half their maximum permissible content. (Cylinders of nonliquefied gases and acetylene shall be charged to not more than one-half their maximum permissible charged pressure in p.s.i.g. Cylinders of liquefied gases shall be charged to not more than one-half the maximum permissible capacity in pounds.)

(b) Cylinders located at the site shall be connected for use except that enough additional cylinders may be stored at the site to furnish approximately 1 day's consumption of each gas used. Other cylinders shall be stored, in an approved storage area, preferably outdoors, but this storage area shall not be located near a building exit.

(c) Cylinders in excess of 40 pounds total weight being transported to or from the site shall be carried on a hand or motorized truck.

(d) The site shall be constructed, equipped, and operated in such a manner that the demonstration will be carried out so as to minimize the possibility of injury to viewers.

(e) Sites involving the use of compressed gases shall be located so as not to interfere with the egress of people during an emergency.

(f) The fire department shall be notified in advance of such use of the site.

(g) Each site shall be provided with a portable fire extinguisher of appropriate size and type and with a pail of water.

(h) The public and combustible materials at the site shall be protected from flames, sparks, and molten metal.

(i) Hoses shall be located and protected so that they will not be physically damaged.

(j) Cylinder valves shall be closed when equipment is unattended.

(k) Where caps are provided for valve protection, such caps shall be in place except when the cylinders are in service or connected ready for service.

(l) Cylinders shall be located or secured so that they cannot be knocked over.

[Order 73-5, § 296-24-68215, filed 5/9/73 and Order 73-4, § 296-24-68215, filed 5/7/73.]

WAC 296-24-685 Application, installation, and operation of arc welding and cutting equipment.

[Order 73-5, § 296-24-685, filed 5/9/73 and Order 73-4, § 296-24-685, filed 5/7/73.]

WAC 296-24-68501 General. (1) Equipment selection. Welding equipment shall be chosen for safe application to the work to be done as specified in WAC 296-24-68503.

(2) Installation. Welding equipment shall be installed safely as specified by WAC 296-24-68505.

(3) Instruction. Workers designated to operate arc welding equipment shall have been properly instructed and qualified to operate such equipment as specified in WAC 296-24-68507.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-68501, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-68501, filed 5/9/73 and Order 73-4, § 296-24-68501, filed 5/7/73.]

WAC 296-24-68503 Application of arc welding equipment.

Note: Assurance of consideration of safety in design is obtainable by choosing apparatus complying with the Requirements for Electric Arc-Welding Apparatus, NEMA EW-1-1962, National Electrical Manufacturers Association or the Safety Standard for Transformer-Type Arc-Welding Machines, ANSI C33.2-1956, Underwriters' Laboratories.

(1) Environmental conditions.

(a) Standard machines for arc welding service shall be designed and constructed to carry their rated load with rated temperature rises where the temperature of the cooling air does not exceed 40°C (104°F) and where the altitude does not exceed 3,300 feet, and shall be suitable for operation in atmospheres containing gases, dust, and light rays produced by the welding arc.

(b) Unusual service conditions may exist, and in such circumstances machines shall be especially designed to safely meet the requirements of the service. Chief among these conditions are exposure to:

(i) Unusually corrosive fumes.

(ii) Steam or excessive humidity.

(iii) Excessive oil vapor.

(iv) Flammable gases.

(v) Abnormal vibration or shock.

(vi) Excessive dust.

(vii) Weather.

(viii) Unusual seacoast or shipboard conditions.

(2) Voltage. Open circuit (no load) voltages of arc welding and cutting machines should be as low as possible consistent with satisfactory welding or cutting being done. The following limits shall not be exceeded:

(a) Alternating-current machines.

(i) Manual arc welding and cutting—80 volts.

(ii) Automatic (machine or mechanized) arc welding and cutting—100 volts.

(b) Direct-current machines.

(i) Manual arc welding and cutting—100 volts.

(ii) Automatic (machine or mechanized) arc welding and cutting—100 volts.

(c) When special welding and cutting processes require values of open circuit voltages higher than the above, means shall be provided to prevent the operator from making accidental contact with the high voltage by adequate insulation or other means.

Note: For a.c. welding under wet conditions or warm surroundings where perspiration is a factor, the use of reliable automatic controls for reducing no load voltage is recommended to reduce the shock hazard.

(3) Design.

(a) A controller integrally mounted in an electric motor driven welder shall have capacity for carrying rated motor current, shall be capable of making and interrupting stalled rotor current of the motor, and may serve as the running overcurrent device if provided with the number of over-current units as specified by chapter 296-24 WAC Part L. Starters with magnetic undervoltage release should be used with machines installed more than one to a circuit to prevent circuit overload caused by simultaneously starting of several motors upon return of voltage.

(b) On all types of arc welding machines, control apparatus shall be enclosed except for the operating wheels, levers, or handles.

Note: Control handles and wheels should be large enough to be easily grasped by a gloved hand.

(c) Input power terminals, tap change devices and live metal parts connected to input circuits shall be completely enclosed and accessible only by means of tools.

(d) Terminals for welding leads should be protected from accidental electrical contact by employees or by metal objects i.e., vehicles, crane hooks, etc. Protection may be obtained by use of: Dead-front receptacles for plug connections; recessed openings with nonremovable hinged covers; heavy insulating sleeving or taping or other equivalent electrical and mechanical protection. If a welding lead terminal which is intended to be used exclusively for connection to the work is connected to the grounded enclosure, it must be done by a conductor at least two AWG sizes smaller than the grounding conductor and the terminal shall be marked to indicate that it is grounded.

(e) No connections for portable control devices such as push buttons to be carried by the operator shall be connected to an a.c. circuit of higher than 120 volts. Exposed metal parts of portable control devices operating on circuits above 50 volts shall be grounded by a grounding conductor in the control cable.

(f) Auto transformers or a.c. reactors shall not be used to draw welding current directly from any a.c. power source having a voltage exceeding 80 volts.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-68503, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-68503, filed 5/9/73 and Order 73-4, § 296-24-68503, filed 5/7/73.]

WAC 296-24-68505 Installation of arc welding equipment. (1) General. Installation including power supply shall be according to the requirements of chapter 296-24 WAC Part L.

(2) Grounding.

(a) The frame or case of the welding machine (except engine-driven machines) shall be grounded under the conditions and according to the methods prescribed in chapter 296-24 WAC Part L.

(b) Conduits containing electrical conductors shall not be used for completing a work-lead circuit. Pipelines shall not be used as a permanent part of a work-lead circuit, but may be used during construction, extension or repair providing current is not carried through threaded joints, flanged bolted joints, or caulked joints and that special precautions are used to avoid sparking at connection of the work-lead cable.

(c) Chains, wire ropes, cranes, hoists, and elevators shall not be used to carry welding current.

(d) Where a structure, conveyor, or fixture is regularly employed as a welding current return circuit, joints shall be bonded or provided with adequate current collecting devices and appropriate periodic inspection should be conducted to ascertain that no condition of electrolysis or shock, or fire hazard exists by virtue of such use.

(e) All ground connections shall be checked to determine that they are mechanically strong and electrically adequate for the required current.

(3) Supply connections and conductors.

(a) A disconnecting switch or controller shall be provided at or near each welding machine which is not equipped with such a switch or controller mounted as an integral part of the machine. The switch shall be according to chapter 296-24 WAC Part L. Overcurrent protection shall be provided as specified in chapter 296-24 WAC Part L. A disconnect switch with overload protection or equivalent disconnect and protection means, permitted by chapter 296-24 WAC Part L shall be provided for each outlet intended for connection to a portable welding machine.

(b) For individual welding machines, the rated current-carrying capacity of the supply conductors shall be not less than the rated primary current of the welding machines.

(c) For groups of welding machines, the rated current-carrying capacity of conductors may be less than the sum of the rated primary currents of the welding machines supplied. The conductor rating shall be determined in each case according to the machine loading based on the use to be made of each welding machine and the allowance permissible in the event that all the welding machines supplied by the conductors will not be in use at the same time.

(d) In operations involving several welders on one structure, d.c. welding process requirements may require the use of both polarities; or supply circuit limitations for a.c. welding may require distribution of machines among the phases of the supply circuit. In such cases no load voltages between electrode holders will be 2 times normal in d.c. or 1, 1.4, 1.73, or 2 times normal on a.c. machines. Similar voltage differences will exist if both a.c. and d.c. welding are done on the same structure.

(i) All d.c. machines shall be connected with the same polarity.

(ii) All a.c. machines shall be connected to the same phase of the supply circuit and with the same instantaneous polarity.

[Statutory Authority: Chapter 49.17 RCW. 91-24-017 (Order 91-07), § 296-24-68505, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-68505, filed 5/9/73 and Order 73-4, § 296-24-68505, filed 5/7/73.]

WAC 296-24-68507 Operation and maintenance. (1) General. Workers assigned to operate or maintain arc welding equipment shall be acquainted with the requirements of WAC 296-24-68501 through 296-24-68505, 296-24-69501 through 296-24-69507, 296-24-70001 through 296-24-70007 and 296-24-71501 through 296-24-71525; if doing gas-shielded arc welding, also Recommended Safe Practices for Gas-Shielded Arc Welding, A6.1-1966, American Welding Society.

(2) Machine hook up. Before starting operations all connections to the machine shall be checked to make certain they are properly made. The work lead shall be firmly attached to the work; magnetic work clamps shall be freed from adherent metal particles of spatter on contact surfaces. Coiled welding cable shall be spread out before use to avoid serious overheating and damage to insulation.

(3) Grounding. Grounding of the welding machine frame shall be checked. Special attention shall be given to safety ground connections of portable machines.

(4) Leaks. There shall be no leaks of cooling water, shielding gas or engine fuel.

(5) Switches. It shall be determined that proper switching equipment for shutting down the machine is provided.

(6) Manufacturers' instructions. Printed rules and instructions covering operation of equipment supplied by the manufacturers shall be strictly followed.

(7) Electrode holders. Electrode holders when not in use shall be so placed that they cannot make electrical contact with persons, conducting objects, fuel or compressed gas tanks.

(8) Electric shock. Cables with splices within 10 feet of the holder shall not be used. The welder should not coil or loop welding electrode cable around parts of the body.

(9) Maintenance.

(a) The operator should report any equipment defect or safety hazard to the supervisor and the use of the equipment shall be discontinued until its safety has been assured. Repairs shall be made only by qualified personnel.

(b) Machines which have become wet shall be thoroughly dried and tested before being used.

(c) Work and electrode lead cables should be frequently inspected for wear and damage. Cables with damaged insulation or exposed bare conductors shall be replaced. Joining lengths of work and electrode cables shall be done by the use of connecting means specifically intended for the purpose. The connecting means shall have insulation adequate for the service conditions.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-68507, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-68507, filed 5/9/73 and Order 73-4, § 296-24-68507, filed 5/7/73.]

WAC 296-24-690 Installation and operation of resistance welding equipment.

[Order 73-5, § 296-24-690, filed 5/9/73 and Order 73-4, § 296-24-690, filed 5/7/73.]

WAC 296-24-69001 General. (1) Installation. All equipment shall be installed by a qualified electrician in conformance with chapter 296-24 WAC Part L. There shall be a safety-type disconnecting switch or a circuit breaker or circuit interrupter to open each power circuit to the machine, conveniently located at or near the machine, so that the power can be shut off when the machine or its controls are to be serviced.

(2) Thermal protection. Ignitron tubes used in resistance welding equipment shall be equipped with a thermal protection switch.

(3) Personnel. Workers designated to operate resistance welding equipment shall have been properly instructed and judged competent to operate such equipment.

(4) Guarding. Controls of all automatic or air and hydraulic clamps shall be arranged or guarded to prevent the operator from accidentally activating them.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-69001, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-69001, filed 11/22/91, effective 12/24/91; Order 73-5, § 296-24-69001, filed 5/9/73 and Order 73-4, § 296-24-69001, filed 5/7/73.]

WAC 296-24-69003 Spot and seam welding machines (nonportable). (1) Voltage. All external weld initiating control circuits shall operate on low voltage, not over 120 volts.

(2) Capacitor welding. Stored energy or capacitor discharge type of resistance welding equipment and control panels involving high voltage (over 550 volts) shall be suitably insulated and protected by complete enclosures, all doors of which shall be provided with suitable interlocks and contacts wired into the control circuit (similar to elevator interlocks). Such interlocks or contacts shall be so designed as to effectively interrupt power and short circuit all capacitors when the door or panel is open. A manually operated switch or suitable positive device shall be installed, in addition to the mechanical interlocks or contacts, as an added safety measure assuring absolute discharge of all capacitors.

(3) Interlocks. All doors and access panels of all resistance welding machines and control panels shall be kept locked and interlocked to prevent access, by unauthorized persons, to live portions of the equipment.

(4) Guarding. All press welding machine operations, where there is a possibility of the operator's fingers being under the point of operation, shall be effectively guarded by the use of a device such as an electronic eye safety circuit, two hand controls or protections similar to that prescribed for punch press operation, WAC 296-24-19501 through 296-24-19513. All chains, gears, operating bus linkage, and belts shall be protected by adequate guards, in accordance with WAC 296-24-20501 through 296-24-20533.

(5) Shields. The hazard of flying sparks shall be, wherever practical, eliminated by installing a shield guard of safety glass or suitable fire-resistant plastic at the point of operation. Additional shields or curtains shall be installed as necessary to protect passing persons from flying sparks. (See WAC 296-24-70003 (1)(c).)

(6) Foot switches. All foot switches shall be guarded to prevent accidental operation of the machine.

(7) Stop buttons. Two or more safety emergency stop buttons shall be provided on all special multispot welding machines, including 2-post and 4-post weld presses.

(8) Safety pins. On large machines, four safety pins with plugs and receptacles (one in each corner) shall be provided so that when safety pins are removed and inserted in the ram or platen, the press becomes inoperative.

(9) Grounding. Where technically practical, the secondary of all welding transformers used in multispot, protection and seam welding machines shall be grounded. This may be done by permanently grounding one side of the welding secondary current circuit. Where not technically practical, a center tapped grounding reactor connected across the secondary or the use of a safety disconnect switch in conjunction with the welding control are acceptable alternates. Safety disconnect shall be arranged to open both sides of the line when welding current is not present.

[Order 73-5, § 296-24-69003, filed 5/9/73 and Order 73-4, § 296-24-69003, filed 5/7/73.]

WAC 296-24-69005 Portable welding machines. (1) Counter-balance. All portable welding guns shall have suitable counter-balanced devices for supporting the guns, including cables, unless the design of the gun or fixture makes counterbalancing impractical or unnecessary.

(2) Safety chains. All portable welding guns, transformers and related equipment that is suspended from overhead

structures, eye beams, trolleys, etc., shall be equipped with safety chains or cables. Safety chains or cables shall be capable of supporting the total shock load in the event of failure of any component of the supporting system.

(3) Clevis. When trolleys are used to support portable welding equipment, they shall be equipped with suitable forged steel clevis for the attachment of safety chains. Each clevis shall be capable of supporting the total shock load of the suspended equipment in the event of trolley failure.

(4) Switch guards. All initiating switches, including retraction and dual schedule switches, located on the portable welding gun shall be equipped with suitable guards capable of preventing accidental initiation through contact with fixturing, operator's clothing, etc. Initiating switch voltage shall not exceed 24 volts.

(5) Moving holder. The movable holder, where it enters the gun frame, shall have sufficient clearance to prevent the shearing of fingers carelessly placed on the operating movable holder.

(6) Grounding. The secondary and case of all portable welding transformers shall be grounded. Secondary grounding may be by center tapped secondary or by a center tapped grounding reactor connected across the secondary.

[Order 73-5, § 296-24-69005, filed 5/9/73 and Order 73-4, § 296-24-69005, filed 5/7/73.]

WAC 296-24-69007 Flash welding equipment. (1) Ventilation and flash guard. Flash welding machines shall be equipped with a hood to control flying flash. In cases of high production, where materials may contain a film of oil and where toxic elements and metal fumes are given off, ventilation shall be provided in accordance with WAC 296-24-71501 through 296-24-71525.

(2) Fire curtains. For the protection of the operators of nearby equipment, fire-resistant curtains or suitable shields shall be set up around the machine and in such a manner that the operator's movements are not hampered.

(3) If the welding process cannot be isolated, all persons who may be exposed to the hazard of arc flash shall be properly protected.

[Order 74-27, § 296-24-69007, filed 5/7/74; Order 73-5, § 296-24-69007, filed 5/9/73 and Order 73-4, § 296-24-69007, filed 5/7/73.]

WAC 296-24-69009 Hazards and precautions. A job hazard analysis shall be made, by qualified personnel, of the operations to be performed on each welding machine to determine the safeguards and personal protective equipment that shall be used for each job.

[Order 73-5, § 296-24-69009, filed 5/9/73 and Order 73-4, § 296-24-69009, filed 5/7/73.]

WAC 296-24-69011 Maintenance. Periodic inspection shall be made by qualified maintenance personnel, and records of the same maintained. The operator shall be instructed to report any equipment defects to the supervisor and the use of the equipment shall be discontinued until safety repairs have been completed.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-69011, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-69011, filed 5/9/73 and Order 73-4, § 296-24-69011, filed 5/7/73.]

WAC 296-24-695 Fire prevention and protection.

[Order 73-5, § 296-24-695, filed 5/9/73 and Order 73-4, § 296-24-695, filed 5/7/73.]

WAC 296-24-69501 Basic precautions. For elaboration of these basic precautions and of the special precautions of WAC 296-24-69503 as well as a delineation of the fire protection and prevention responsibilities of welders and cutters, their supervisors (including outside contractors) and those in management on whose property cutting and welding is to be performed, see, Standard for Fire Prevention in Use of Cutting and Welding Processes, NFPA Standard 51B, 1962. The basic precautions for fire prevention in welding or cutting work are:

(1) Fire hazards. If the object to be welded or cut cannot readily be moved, all movable fire hazards in the vicinity shall be taken to a safe place.

(2) Guards. If the object to be welded or cut cannot be moved and if all the fire hazards cannot be removed, then guards shall be used to confine the heat, sparks, and slag, and to protect the immovable fire hazards.

(3) Restrictions. If the requirements stated in WAC 296-24-69501 (1) and (2) cannot be followed then welding and cutting shall not be performed.

[Order 73-5, § 296-24-69501, filed 5/9/73 and Order 73-4, § 296-24-69501, filed 5/7/73.]

WAC 296-24-69503 Special precautions. When the nature of the work to be performed falls within the scope of WAC 296-24-69501(2) certain additional precautions may be necessary:

(1) Combustible material. Wherever there are floor openings or cracks in the flooring that cannot be closed, precautions shall be taken so that no readily combustible materials on the floor below will be exposed to sparks which might drop through the floor. The same precautions shall be observed with regard to cracks or holes in walls, open doorways and open or broken windows.

(2) Fire extinguishers. Suitable fire extinguishing equipment shall be maintained in a state of readiness for instant use. Such equipment may consist of pails of water, buckets of sand, hose or portable extinguishers depending upon the nature and quantity of the combustible material exposed.

(3) Fire watch.

(a) Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist:

(i) Appreciable combustible material, in building construction or contents, closer than 35 feet to the point of operation.

(ii) Appreciable combustibles are more than 35 feet away but are easily ignited by sparks.

(iii) Wall or floor openings within a 35-foot radius expose combustible material in adjacent areas including concealed spaces in walls or floors.

(iv) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.

(b) Fire watchers shall have fire extinguishing equipment readily available and be trained in its use. They shall be

familiar with facilities for sounding an alarm in the event of a fire. They shall watch for fires in all exposed areas, try to extinguish them only when obviously within the capacity of the equipment available, or otherwise sound the alarm. A fire watch shall be maintained for at least a half hour after completion of welding or cutting operations to detect and extinguish possible smoldering fires.

(4) Authorization. Before cutting or welding is permitted, the area shall be inspected by the individual responsible for authorizing cutting and welding operations. The responsible individual shall designate precautions to be followed in granting authorization to proceed, preferably in the form of a written permit.

(5) Floors. Where combustible materials such as paper clippings, wood shavings, or textile fibers are on the floor, the floor shall be swept clean for a radius of 35 feet. Combustible floors shall be kept wet, covered with damp sand, or protected by fire-resistant shields. Where floors have been wet down, personnel operating arc welding or cutting equipment shall be protected from possible shock.

(6) Prohibited areas. Cutting or welding shall not be permitted in the following situations:

(a) In areas not authorized by management.

(b) In sprinklered buildings while such protection is impaired.

(c) In the presence of explosive atmospheres (mixtures of flammable gases, vapors, liquids, or dusts with air), or explosive atmospheres that may develop inside uncleaned or improperly prepared tanks or equipment which have previously contained such materials, or that may develop in areas with an accumulation of combustible dusts.

(d) In areas near the storage of large quantities of exposed, readily ignitable materials such as bulk sulphur, baled paper, or cotton.

(7) Relocation of combustibles. Where practicable, all combustibles shall be relocated at least 35 feet from the work site. Where relocation is impracticable, combustibles shall be protected with flameproofed covers or otherwise shielded with metal or asbestos guards or curtains. Edges of covers at the floor should be tight to prevent sparks from going under them. This precaution is also important at overlaps where several covers are used to protect a large pile.

(8) Ducts. Ducts and conveyor systems that might carry sparks to distant combustibles shall be suitably protected or shut down.

(9) Combustible walls. Where cutting or welding is done near walls, partitions, ceiling or roof of combustible construction, fire-resistant shields or guards shall be provided to prevent ignition.

(10) Noncombustible walls. If welding is to be done on a metal wall, partition, ceiling or roof, precautions shall be taken to prevent ignition of combustibles on the other side, due to conduction or radiation, preferably by relocating combustibles. Where combustibles are not relocated, a fire watch on the opposite side from the work shall be provided.

(11) Combustible cover. Welding shall not be attempted on a metal partition, wall, ceiling or roof having a combustible covering nor on walls or partitions of combustible sandwich-type panel construction.

(12) Pipes. Cutting or welding on pipes or other metal in contact with combustible walls, partitions, ceilings or roofs shall not be undertaken if the work is close enough to cause ignition by conduction.

(13) Management. Management shall recognize its responsibility for the safe usage of cutting and welding equipment on its property and:

(a) Based on fire potentials of plant facilities, establish areas for cutting and welding, and establish procedures for cutting and welding, in other areas.

(b) Designate an individual responsible for authorizing cutting and welding operations in areas not specifically designed for such processes.

(c) Insist that cutters or welders and their supervisors are suitably trained in the safe operation of their equipment and the safe use of the process.

(d) Advise all contractors about flammable materials or hazardous conditions of which they may not be aware.

(14) Supervisor. The supervisor:

(a) Shall be responsible for the safe handling of the cutting or welding equipment and the safe use of the cutting or welding process.

(b) Shall determine the combustible materials and hazardous areas present or likely to be present in the work location.

(c) Shall protect combustibles from ignition by the following:

(i) Have the work moved to a location free from dangerous combustibles.

(ii) If the work cannot be moved, have the combustibles moved to a safe distance from the work or have the combustibles properly shielded against ignition.

(iii) See that cutting and welding are so scheduled that plant operations that might expose combustibles to ignition are not started during cutting or welding.

(d) Shall secure authorization for the cutting or welding operations from the designated management representative.

(i) Shall determine that the cutter or welder secures their approval that conditions are safe before going ahead.

(ii) Shall determine that fire protection and extinguishing equipment are properly located at the site.

(iii) Shall ensure fire watches are available at the site when required.

(15) Fire prevention precautions. Cutting or welding shall be permitted only in areas that are or have been made fire safe. Within the confines of an operating plant or building, cutting and welding should preferably be done in a specific area designed for such work, such as a maintenance shop or a detached outside location. Such areas should be of noncombustible or fire-resistive construction, essentially free of combustible and flammable contents, and suitably segregated from adjacent areas. When work cannot be moved practically, as in most construction work, the area shall be made safe by removing combustibles or protecting combustibles from ignition sources.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-69503, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-69503, filed 5/9/73 and Order 73-4, § 296-24-69503, filed 5/7/73.]

WAC 296-24-69505 Welding or cutting containers. (1) Used containers. No welding, cutting, or other hot work shall be performed on used drums, barrels, tanks or other containers until they have been cleaned so thoroughly as to make absolutely certain that there are no flammable materials present or any substances such as greases, tars, acids, or other materials which when subjected to heat, might produce flammable or toxic vapors. Any pipe lines or connections to the drum or vessel shall be disconnected or blanked.

(2) Venting and purging. All hollow spaces, cavities or containers shall be vented to permit the escape of air or gases before preheating, cutting or welding. Purging with inert gas is recommended.

[Order 73-5, § 296-24-69505, filed 5/9/73 and Order 73-4, § 296-24-69505, filed 5/7/73.]

WAC 296-24-69507 Confined spaces. (1) Accidental contact. When arc welding is to be suspended for any substantial period of time such as during lunch or overnight, all electrodes shall be removed from the holders and the holders carefully located so that accidental contact cannot occur and the machine be disconnected from the power source.

(2) Torch valve. In order to eliminate the possibility of gas escaping through leaks or improperly closed valves, when gas welding or cutting, the torch valves shall be closed and the gas supply to the torch positively shut off at some point outside the confined area whenever the torch is not to be used for a substantial period of time, such as during lunch hour or overnight. Where practicable, the torch and hose shall also be removed from the confined space.

[Order 73-5, § 296-24-69507, filed 5/9/73 and Order 73-4, § 296-24-69507, filed 5/7/73.]

WAC 296-24-700 Protection of employees.

[Order 73-5, § 296-24-700, filed 5/9/73 and Order 73-4, § 296-24-700, filed 5/7/73.]

WAC 296-24-70001 General. (1) Railing. A welder or helper working on platforms, scaffolds, or runways shall be protected against falling. This may be accomplished by the use of railings, safety belts, life lines, or some other equally effective safeguards.

(2) Welding cable. Welders shall place welding cable and other equipment so that it is clear of passageways, ladders, and stairways.

[Order 73-5, § 296-24-70001, filed 5/9/73 and Order 73-4, § 296-24-70001, filed 5/7/73.]

WAC 296-24-70003 Eye protection. (1) Selection.

(a) Helmets or hand shields shall be used during all arc welding or arc cutting operations, excluding submerged arc welding. Goggles should also be worn during arc welding or cutting operations to provide protection from injurious rays from adjacent work, and from flying objects. The goggles may have either clear or colored glass, depending upon the amount of exposure to adjacent welding operations. Helpers or attendants shall be provided with proper eye protection.

(b) Goggles or other suitable eye protection shall be used during all gas welding or oxygen cutting operations. Spectacles without side shields, with suitable filter lenses are permitted for use during gas welding operations on light work, for torch brazing or for inspection.

(c) All operators and attendants of resistance welding or resistance brazing equipment shall use transparent face shields or goggles, depending on the particular job, to protect their faces or eyes, as required.

(d) Eye protection in the form of suitable goggles shall be provided where needed for brazing operations not covered in (1)(a), (b) and (c) of this section.

(2) Specifications for protectors.

(a) Helmets and hand shields shall be made of a material which is an insulator for heat and electricity. Helmets, shields and goggles shall be not readily flammable and shall be capable of understanding sterilization.

(b) Helmets and hand shields shall be arranged to protect the face, neck and ears from direct radiant energy from the arc.

(c) Helmets shall be provided with filter plates and cover plates designed for easy removal.

(d) All parts shall be constructed of a material which will not readily corrode or discolor the skin.

(e) Goggles shall be ventilated to prevent fogging of the lenses as much as practicable.

(f) Cover lenses or plates should be provided to protect each helmet, hand shield or goggle filter lens or plate.

(g) All glass for lenses shall be tempered, substantially free from striae, air bubbles, waves and other flaws. Except when a lens is ground to provide proper optical correction for defective vision, the front and rear surfaces of lenses and windows shall be smooth and parallel.

(h) Lenses shall bear some permanent distinctive marking by which the source and shade may be readily identified.

(i) The following is a guide for the selection of the proper shade numbers. These recommendations may be varied to suit the individual's needs.

Welding Operation	Shade No.
Shielded metal-arc welding— 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	10
Gas-shielded arc welding (nonferrous)— 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	11
Gas-shielded arc welding (ferrous)— 1/16-, 3/32-, 1/8-, 5/32-inch electrodes	12
Shielded metal-arc welding: 3/16-, 7/32-, 1/4-inch electrodes	12
5/16-, 3/8-inch electrodes	14
Atomic hydrogen welding	10-14
Carbon arc welding	14
Soldering	2
Torch brazing	3 or 4
Light cutting, up to 1 inch	3 or 4
Medium cutting, 1 inch to 6 inches	4 or 5
Heavy cutting, 6 inches and over	5 or 6
Gas welding (light) up to 1/8 inch	4 or 5

Welding Operation	Shade No.
Gas welding (medium) 1/8 inch to 1/2 inch	5 or 6
Gas welding (heavy) 1/2 inch and over	6 or 8

Note: In gas welding or oxygen cutting where the torch produces a high yellow light, it is desirable to use a filter or lens that absorbs the yellow or sodium line in the visible light of the operation.

(j) All filter lenses and plates shall meet the test for transmission of radiant energy prescribed in ANSI Z 87.1-1968—American National Standard Practice for Occupational and Educational Eye and Face Protection.

(3) Protection from arc welding rays. Where the work permits, the welder should be enclosed in an individual booth painted with a finish of low-reflectivity such as zinc oxide (an important factor for absorbing ultraviolet radiations) and lamp black; or shall be enclosed with noncombustible screens similarly painted. Booths and screens shall permit circulation of air at floor level. Workers or other persons adjacent to the welding areas shall be protected from the rays by noncombustible or flameproof screens or shields or shall be required to wear appropriate goggles.

[Order 73-5, § 296-24-70003, filed 5/9/73 and Order 73-4, § 296-24-70003, filed 5/7/73.]

WAC 296-24-70005 Protective clothing. (1) General requirements. Employees exposed to the hazards created by welding, cutting, or brazing operations shall be protected by personal protective equipment in accordance with the requirements of chapter 296-24 WAC, Part A-2. Appropriate protective clothing required for any welding operation will vary with the size, nature and location of the work to be performed.

(2) Specified protective clothing. Protective means which may be employed are as follows:

(a) Except when engaged in light work, all welders should wear flameproof gauntlet gloves.

(b) Flameproof aprons made of leather, asbestos, or other suitable material may also be desirable as protection against radiated heat and sparks.

(c) Woolen clothing preferable to cotton because it is not so readily ignited and helps protect the welder from changes in temperature. Cotton clothing, if used, should be chemically treated to reduce its combustibility. All outer clothing such as jumpers or overalls should be reasonably free from oil or grease.

(d) Sparks may lodge in rolled-up sleeves or pockets of clothing, or cuffs of overalls or trousers. It is therefore recommended that sleeves and collars be kept buttoned and pockets be eliminated from the front of overalls and aprons. Trousers or overalls should not be turned up on the outside.

Note: For heavy work, fire-resistant leggings, high boots, or other equivalent means should be used.

(e) In production work a sheet metal screen in front of the worker's legs can provide further protection against sparks and molten metal in cutting operations.

(f) Capes or shoulder covers made of leather or other suitable materials should be worn during overhead welding or cutting operations. Leather skull caps may be worn under helmets to prevent head burns.

(g) For overhead welding and cutting, or welding and cutting in extremely confined spaces, ear protection is sometimes desirable.

(h) Where there is exposure to sharp or heavy falling objects, or a hazard of bumping in confined spaces, hard hats or head protectors shall be used.

[Statutory Authority: Chapter 49.17 RCW. 94-20-057 (Order 94-16), § 296-24-70005, filed 9/30/94, effective 11/20/94; Order 73-5, § 296-24-70005, filed 5/9/73 and Order 73-4, § 296-24-70005, filed 5/7/73.]

WAC 296-24-70007 Work in confined spaces. (1) General. As used herein confined space is intended to mean a relatively small or restricted space such as a tank, boiler, pressure vessel, or small compartment of a ship.

(2) Ventilation. Ventilation is a prerequisite to work in confined spaces. For ventilation requirements see WAC 296-24-71501 through 296-24-71525.

(3) Securing cylinders and machinery. When welding or cutting is being performed in any confined spaces the gas cylinders and welding machines shall be left on the outside. Before operations are started, heavy portable equipment mounted on wheels shall be securely blocked to prevent accidental movement.

(4) Lifelines. Where a welder must enter a confined space through a manhole or other small opening, means shall be provided for quickly removing the welder in case of emergency. When safety belts and lifelines are used for this purpose they shall be so attached in a manner so that the welder's body cannot be jammed in a small exit opening. An attendant with a preplanned rescue procedure shall be stationed outside to observe the welder at all times and be capable of putting rescue operations into effect.

(5) Electrode removal. When arc welding is to be suspended for any substantial period of time, such as during lunch or overnight, all electrodes shall be removed from the holders and the holders carefully located so that accidental contact cannot occur and the machine disconnected from the power source.

(6) Gas cylinder shutoff. In order to eliminate the possibility of gas escaping through leaks or improperly closed valves, when gas welding or cutting, the torch valves shall be closed and the fuel-gas and oxygen supply to the torch positively shut off at some point outside the confined area whenever the torch is not to be used for a substantial period of time, such as during lunch hour or overnight. Where practicable the torch and hose shall also be removed from the confined space.

(7) Warning sign. After welding operations are completed, the welder shall mark the hot metal or provide some other means of warning other workers.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-70007, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-70007, filed 5/9/73 and Order 73-4, § 296-24-70007, filed 5/7/73.]

WAC 296-24-715 Health protection and ventilation.

[Order 73-5, § 296-24-715, filed 5/9/73 and Order 73-4, § 296-24-715, filed 5/7/73.]

WAC 296-24-71501 General. (1) Contamination. The requirements in this section have been established on the basis of the following three factors in arc and gas welding which govern the amount of contamination to which welders may be exposed:

(a) Dimensions of space in which welding is to be done (with special regard to height of ceiling).

(b) Number of welders.

(c) Possible evolution of hazardous fumes, gases, or dust according to the metals involved.

(2) Ventilation. It is recognized that in individual instances other factors may be involved in which case ventilation or respiratory protective devices should be provided as needed to meet the equivalent requirements of this section. Such factors would include:

(a) Atmospheric conditions.

(b) Heat generated.

(c) Presence of volatile solvents.

(3) Screens. When welding must be performed in a space entirely screened on all sides, the screens shall be so arranged that no serious restriction of ventilation exists. It is desirable to have the screens so mounted that they are about 2 feet above the floor unless the work is performed at so low a level that the screen must be extended nearer to the floor to protect nearby workers from the glare of welding.

(4) Maximum allowable concentration. Local exhaust or general ventilating systems shall be provided and arranged to keep the amount of toxic fumes, gases, or dusts below the maximum allowable concentration as specified in chapter 296-62 WAC.

Note: A number of potentially hazardous materials are employed in fluxes, coatings, coverings, and filler metals used in welding and cutting or are released to the atmosphere during welding and cutting. These include but are not limited to the materials itemized in WAC 296-24-71509 through 296-24-71523.

(5) Precautionary labels. The employer shall ascertain the potentially hazardous materials, associated with welding, cutting, etc., and inform the employee of same wither through signs, labels or other appropriate means.

(a) All filler metals and fusible granular materials shall carry the following notice, as a minimum, on tags, boxes, or other containers:

CAUTION

Welding may produce fumes and gases hazardous to health. Avoid breathing these fumes and gases. Use adequate ventilation. See ANSI Z 49.1-1967 Safety in Welding and Cutting published by the American Welding Society.

(b) Brazing (welding) filler metals containing cadmium in significant amounts shall carry the following notice on tags, boxes, or other containers:

WARNING
CONTAINS CADMIUM—POISONOUS FUMES MAY BE FORMED ON HEATING

Do not breathe fumes. Use only with adequate ventilation such as fume collectors, exhaust ventilators, or air-supplied respirators. See ANSI Z 49.1-1967.

If chest pain, cough, or fever develops after use call physician immediately.

Keep children away when using.

(c) Brazing and gas welding fluxes containing fluorine compounds shall have a cautionary wording to indicate that they contain fluorine compounds. One such cautionary wording recommended by the American Welding Society for brazing and gas welding fluxes reads as follows:

CAUTION
CONTAINS FLUORIDES

This flux when heated gives off fumes that may irritate eyes, nose and throat.

(i) Avoid fumes-use only in well-ventilated spaces.

(ii) Avoid contact of flux with eyes or skin.

(iii) Do not take internally.

[Order 73-5, § 296-24-71501, filed 5/9/73 and Order 73-4, § 296-24-71501, filed 5/7/73.]

WAC 296-24-71503 Ventilation for general welding and cutting. (1) General. Mechanical ventilation shall be provided when welding or cutting is done on metals not covered in WAC 296-24-71509 through 296-24-71523. (For specific material, see the ventilation requirements of WAC 296-24-71509 through 296-24-71523.)

(a) In a space of less than 10,000 cubic feet per welder.

(b) In a room having a ceiling height of less than 16 feet.

(c) In confined spaces or where the welding space contains partitions, balconies, or other structural barriers to the extent that they significantly obstruct cross ventilation.

(2) Minimum rate. Such ventilation shall be at the minimum rate of 2,000 cubic feet per minute per welder, except where local exhaust hoods and booths as per WAC 296-24-71505, or airline respirators approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for such purposes are provided. Natural ventilation is considered sufficient for welding or cutting operations where the restrictions in WAC 296-24-71503(1) are not present.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-71503, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-71503, filed 5/9/73 and Order 73-4, § 296-24-71503, filed 5/7/73.]

WAC 296-24-71505 Local exhaust hoods and booths. Mechanical local exhaust ventilation may be by means of either of the following:

(1) Hoods. Freely movable hoods intended to be placed by the welder as near as practicable to the work being welded and provided with a rate of airflow sufficient to maintain a velocity in the direction of the hood of 100 linear feet per minute in the zone of welding when the hood is at its most remote distance from the point of welding. The rates of ventilation required to accomplish this control velocity using a 3-

inch wide flanged suction opening are shown in the following table:

Welding zone	Minimum air flow[1] cubic feet/minutes	Duct diameter inches[2]
4 to 6 inches from arc or torch—	150	3
6 to 8 inches from arc or torch—	275	3 1/2
8 to 10 inches from arc or torch—	425	4 1/2
10 to 12 inches from arc or torch—	600	5 1/2

[1]When brazing with cadmium bearing materials or when cutting on such materials increased rates of ventilation may be required.

[2]Nearest half-inch duct diameter based on 4,000 feet per minute velocity in pipe.

(2) Fixed enclosure. A fixed enclosure with a top and not less than two sides which surround the welding or cutting operations and with a rate of airflow sufficient to maintain a velocity away from the welder of not less than 100 linear feet per minute.

[Order 73-5, § 296-24-71505, filed 5/9/73 and Order 73-4, § 296-24-71505, filed 5/7/73.]

WAC 296-24-71507 Ventilation in confined spaces. (1) Air replacement. All welding and cutting operations carried on in confined spaces shall be adequately ventilated to prevent the accumulation of toxic materials or possible oxygen deficiency. This applies not only to the welder but also to helpers and other personnel in the immediate vicinity. All air replacing that withdrawn shall be clean and respirable.

(2) Airline respirators. In such circumstances where it is impossible to provide such ventilation, airline respirators or hose masks approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for this purpose shall be used.

(3) Self-contained units. In areas immediately hazardous to life, hose masks with blowers or self-contained breathing equipment shall be used. The breathing equipment shall be approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH).

(4) Outside helper. Where welding operations are carried on in confined spaces and where welders and helpers are provided with hose masks, hose masks with blowers or self-contained breathing equipment approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH), a worker shall be stationed on the outside of such confined spaces to insure the safety of those working within.

(5) Oxygen for ventilation. Oxygen shall not be used for ventilation.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-71507, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-71507, filed 5/9/73 and Order 73-4, § 296-24-71507, filed 5/7/73.]

WAC 296-24-71509 Fluorine compounds. (1) General. In confined spaces, welding or cutting involving fluxes, coverings, or other materials which contain fluorine compounds shall be done in accordance with WAC 296-24-71507 (1) through (5). A fluorine compound is one that contains fluorine, as an element in chemical combination, not as a free gas.

Note: Maximum allowable concentration. The need for local exhaust ventilation or airline respirators for welding or cutting in other than confined spaces will depend upon the individual circumstances. However, experience has shown such protection to be desirable for fixed-location production welding and for all production welding on stainless steels. Where air samples taken at the welding location indicate that the fluorides liberated are below the maximum allowable concentration, such protection is not necessary.

[Order 73-5, § 296-24-71509, filed 5/9/73 and Order 73-4, § 296-24-71509, filed 5/7/73.]

WAC 296-24-71511 Zinc. (1) Confined spaces. In confined spaces welding or cutting involving zinc-bearing base or filler metals or metals coated with zinc-bearing materials shall be done in accordance with WAC 296-24-71507 (1) through (5).

(2) Indoors. Indoors, welding or cutting involving zinc-bearing base or filler metals coated with zinc-bearing materials shall be done in accordance with WAC 296-24-71505 (1) and (2).

[Order 73-5, § 296-24-71511, filed 5/9/73 and Order 73-4, § 296-24-71511, filed 5/7/73.]

WAC 296-24-71513 Lead. (1) Confined spaces. In confined spaces, welding involving lead-base metals (erroneously called lead-burning) shall be done in accordance with WAC 296-24-71507 (1) through (5).

(2) Indoors. Indoors, welding involving lead-base metals shall be done in accordance with WAC 296-24-71505 (1) and (2).

(3) Local ventilation. In confined spaces or indoors, welding or cutting involving metals containing lead, other than as an impurity, or involving metals coated with lead-bearing materials, including paint shall be done using local exhaust ventilation or airline respirators. Outdoors such operations shall be done using respiratory protective equipment approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for such purposes. In all cases, workers in the immediate vicinity of the cutting operation shall be protected as necessary by local exhaust ventilation or airline respirators.

Note: See chapter 296-62 WAC for additional requirements on lead.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-71513, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-71513, filed 5/9/73 and Order 73-4, § 296-24-71513, filed 5/7/73.]

WAC 296-24-71515 Beryllium. Welding or cutting indoors, outdoors, or in confined spaces involving beryllium-containing base or filler metals shall be done using local exhaust ventilation and airline respirators unless atmospheric tests under the most adverse conditions have established that the workers' exposure is within the acceptable concentrations defined by chapter 296-62 WAC. In all cases, workers in the immediate vicinity of the welding or cutting operations shall be protected as necessary by local exhaust ventilation or airline respirators.

[Order 73-5, § 296-24-71515, filed 5/9/73 and Order 73-4, § 296-24-71515, filed 5/7/73.]

WAC 296-24-71517 Cadmium. (1) General. Welding or cutting indoors or in confined spaces involving cadmium-bearing or cadmium-coated base metals shall be done using local exhaust ventilation or airline respirators unless atmospheric tests under the most adverse conditions have established that the workers' exposure is within the acceptable concentrations defined by chapter 296-62 WAC. Outdoors such operations shall be done using respiratory protective equipment such as fume respirators approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for such purposes.

(2) Confined space. Welding (brazing) involving cadmium-bearing filler metals shall be done using ventilation as prescribed in WAC 296-24-71505 or 296-24-71507 if the work is to be done in a confined space.

Note: See chapter 296-62 WAC for additional requirements on cadmium.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-71517, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-71517, filed 5/9/73 and Order 73-4, § 296-24-71517, filed 5/7/73.]

WAC 296-24-71519 Mercury. Welding or cutting indoors or in a confined space involving metals coated with mercury-bearing materials including paint, shall be done using local exhaust ventilation or airline respirators unless atmospheric tests under the most adverse conditions have established that the workers' exposure is within the acceptable concentrations defined by chapter 296-62 WAC. Outdoors such operations shall be done using respiratory protective equipment approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for such purposes.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-71519, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-71519, filed 5/9/73 and Order 73-4, § 296-24-71519, filed 5/7/73.]

WAC 296-24-71521 Cleaning compounds. (1) Manufacturer's instructions. In the use of cleaning materials, because of their possible toxicity of flammability, appropriate precautions such as manufacturer's instructions shall be followed.

(2) Degreasing. Degreasing or other cleaning operations involving chlorinated hydrocarbons shall be so located that no vapors from these operations will reach or be drawn into the atmosphere surrounding any welding operation. In addition, trichloroethylene and perchlorethylene should be kept out of atmospheres penetrated by the ultraviolet radiation of gas-shielded welding operations.

[Order 73-5, § 296-24-71521, filed 5/9/73 and Order 73-4, § 296-24-71521, filed 5/7/73.]

WAC 296-24-71523 Cutting of stainless steels. Oxygen cutting, using either a chemical flux or iron powder or gas-shielded arc cutting of stainless steel, shall be done using mechanical ventilation adequate to remove the fumes generated.

[Order 73-5, § 296-24-71523, filed 5/9/73 and Order 73-4, § 296-24-71523, filed 5/7/73.]

WAC 296-24-71525 First-aid equipment. First-aid equipment shall be available at all times. On every shift of welding operations there should be present employees trained to render first aid. All injuries shall be reported as soon as possible for medical attention. First aid shall be rendered until medical attention can be provided.

[Order 73-5, § 296-24-71525, filed 5/9/73 and Order 73-4, § 296-24-71525, filed 5/7/73.]

WAC 296-24-720 Industrial applications.

[Order 73-5, § 296-24-720, filed 5/9/73 and Order 73-4, § 296-24-720, filed 5/7/73.]

WAC 296-24-72001 Transmission pipeline. (1) General. The requirements of WAC 296-24-68501 through 296-24-68507, 296-24-70001 through 296-24-70007, and 296-24-71501 through 296-24-71525, shall be observed.

(2) Field shop operations. Where field shop operations are involved for fabrication of fittings, river crossings, road crossings, and pumping and compressor stations the requirements of WAC 296-24-68001, 296-24-68501 through 296-24-68507, 296-24-69501 through 296-24-69507, 296-24-70001 through 296-24-70007 and 296-24-71501 through 296-24-71525 shall be observed.

(3) Electric shock. When arc welding is performed in wet conditions, or under conditions of high humidity, special protection against electric shock shall be supplied.

(4) Pressure testing. In pressure testing of pipelines, the workers and the public shall be protected against injury by the blowing out of closures or other pressures restraining devices. Also, protection shall be provided against expulsion of loose dirt that may have become trapped in the pipe.

(5) Construction standards. The welded construction of transmission pipelines shall be conducted in accordance with the Standard for Welding Pipe Lines and Related Facilities, API Std. 1104-1968.

(6) Flammable substance lines. The connection, by welding, of branches to pipelines carrying flammable substances shall be performed in accordance with Welding or Hot Tapping on Equipment Containing Flammables, API Std. PSD No. 2201-1963.

(7) X-ray inspection. The use of x-rays and radioactive isotopes for the inspection of welded pipeline joints shall be carried out in conformance with the American National Standard Safety Standard for Nonmedical X-ray and Sealed Gamma-Ray Sources, ANSI Z 54.1-1963.

[Order 73-5, § 296-24-72001, filed 5/9/73 and Order 73-4, § 296-24-72001, filed 5/7/73.]

WAC 296-24-72003 Mechanical piping systems. (1) General. The requirements of WAC 296-24-68001, 296-24-68501 through 296-24-68507, 296-24-69501 through 296-24-69507, 296-24-70001 through 296-24-70007 and 296-24-71501 through 296-24-71525 shall be observed.

(2) X-ray inspection. The use of x-rays and radioactive isotopes for the inspection of welded piping joints shall be in conformance with the American National Standard Safety Standard for Nonmedical X-ray and Sealed Gamma-Ray Sources, ANSI Z 54.1-1963.

[Order 73-5, § 296-24-72003, filed 5/9/73 and Order 73-4, § 296-24-72003, filed 5/7/73.]

WAC 296-24-722 Welding, cutting, and heating in way of preservative coatings. (1) Before welding, cutting, or heating is commenced on any surface covered by a preservative coating whose flammability is not known, a test shall be made by a competent person to determine its flammability. Preservative coatings shall be considered to be highly flammable when scrapings burn with extreme rapidity.

(2) Precautions shall be taken to prevent ignition of highly flammable hardened preservative coatings. When coatings are determined to be highly flammable, they shall be stripped from the area to be heated to prevent ignition.

(3) Protection against toxic preservative coatings:

(a) In enclosed spaces, all surfaces covered with toxic preservatives shall be stripped of all toxic coatings for a distance of at least 4 inches from the area of heat application, or the employees shall be protected by air line respirators, meeting the requirements specified in these rules for this type of work.

(b) In the open air, employees shall be protected by a respirator, suitable for the type of work being done.

(4) The preservative coatings shall be removed a sufficient distance from the area to be heated to ensure that the temperature of the unstripped metal will not be appreciably raised. Artificial cooling of the metal surrounding the heating area may be used to limit the size of the area required to be cleaned.

[Order 73-5, § 296-24-722, filed 5/9/73 and Order 73-4, § 296-24-722, filed 5/7/73.]

PART J-1
WORKING SURFACES, GUARDING FLOORS AND WALL OPENINGS, LADDERS, SCAFFOLDS

Working surfaces, ladders, scaffolds

WAC 296-24-735 Walking-working surfaces.

[Order 73-5, § 296-24-735, filed 5/9/73 and Order 73-4, § 296-24-735, filed 5/7/73.]

WAC 296-24-73501 General requirements. This section applies to all permanent places of employment, except where domestic, mining, or agricultural work only is performed. Construction work is not to be deemed as a permanent place of employment. Measures for the control of toxic materials are considered to be outside the scope of this section.

[Statutory Authority: RCW 49.17.010, [49.17].050 and [49.17].060. 95-22-015, § 296-24-73501, filed 10/20/95, effective 1/16/96. Statutory Authority: Chapter 49.17 RCW. 94-06-068 (Order 93-17), § 296-24-73501, filed 3/2/94, effective 3/1/95; Order 73-5, § 296-24-73501, filed 5/9/73 and Order 73-4, § 296-24-73501, filed 5/7/73.]

WAC 296-24-73503 Housekeeping. (1) All places of employment, passageways, storerooms, and service rooms shall be kept clean, orderly and in a sanitary condition.

(2) The floor of every workroom shall be maintained in a clean, and so far as possible, a dry condition. Where wet processes are used, drainage shall be maintained, and false floors, platforms, mats, or other dry standing places shall be provided where practicable.

(3) To facilitate cleaning, every floor, working place, and passageway shall be kept free from protruding nails, splinters, holes, or loose boards.

(4) All materials stored in tiers shall be stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling or collapse.

[Order 74-27, § 296-24-73503, filed 5/7/74; Order 73-5, § 296-24-73503, filed 5/9/73 and Order 73-4, § 296-24-73503, filed 5/7/73.]

WAC 296-24-73505 Aisles and passageways. (1) Where mechanical handling equipment is used, sufficient safe clearances shall be allowed for aisles, at loading docks, through doorways and wherever turns or passage must be made. Aisles and passageways shall be kept clear and in good repairs, with no obstruction across or in aisles that could create a hazard.

(2) Permanent aisles and passageways shall be appropriately marked. "Appropriate" does not limit the marking to printed lines on the floor only. Other appropriate methods may be marked pillars, powder stripping, flags, traffic cones, or barrels, provided they are maintained in good repair and the recognition of such markings are included in the training programs for vehicle operators and employees.

(3) All trestles in connection with industrial plants on which cars run, which are also used as walkways for workers, shall be equipped with a walkway on the outer edge, so located as to give safe minimum clearance of three feet to cars. Such walkways shall be equipped with standard rails. Where a trestle crosses a driveway or passageway the trestle over such points shall be solidly boarded over.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-73505, filed 7/20/94, effective 9/20/94; 89-11-035 (Order 89-03), § 296-24-73505, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-73505, filed 5/9/73 and Order 73-4, § 296-24-73505, filed 5/7/73.]

WAC 296-24-73507 Covers and guardrails. (1) All open vats and tanks into which workers may fall shall be guarded with railings or screen guards.

(2) All open vats and tanks where workers are employed shall have a platform or walkway 36 to 42 inches below the top of vat or tank or where walkway is flush with top of vat or tank, a standard safeguard of 36 to 42 inches high shall be constructed.

(3) Every tank over 5 feet deep, excepting where agitators are used or where products may be damaged by ladders, shall have a ladder fixed on the inside so placed as to connect with means of access from the outside. Rungs shall have a clearance of at least 6 inches measured between the rung and the side of the tank.

[Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-73507, filed 7/31/79; Order 74-27, § 296-24-73507, filed 5/7/74; Order 73-5, § 296-24-73507, filed 5/9/73 and Order 73-4, § 296-24-73507, filed 5/7/73.]

WAC 296-24-73509 Floor loading protection. (1) In every building or other structure, or part thereof, used for mercantile, business, industrial, or storage purposes, the loads approved by the building official shall be marked on plates of approved design which shall be supplied and

securely affixed by the owner of the building, or the owners duly authorized agent, in a conspicuous place in each space to which they relate. Such plates shall not be removed or defaced but, if lost, removed, or defaced, shall be replaced by the owner or the owners agent.

(2) It shall be unlawful to place, or cause, or permit to be placed, on any floor or roof of a building or other structure a load greater than that for which such floor or roof is approved by the building official.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-73509, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-73509, filed 5/9/73 and Order 73-4, § 296-24-73509, filed 5/7/73.]

WAC 296-24-73511 Steam pipes. (1) All steam pipes or pipes heated by any other means to a sufficient temperature to burn a person (other than coil pipes, radiators, for heating rooms or buildings, or pipes on portable steam engines and boilers) and which are within seven feet of a floor or platform, if exposed to contact, shall be guarded with a standard safeguard.

(2) Protection from hot pipes. All exposed hot pipes within seven feet of the floor or working platform, or within 15 inches measured horizontally from stairways, ramps or fixed ladders, shall be covered with an insulating material or be guarded in such a manner as to prevent contact.

[Order 74-27, § 296-24-73511, filed 5/7/74.]

WAC 296-24-73513 Buildings—Floors. (1) All buildings, docks, tramways, walkways, log dumps and other structures shall be so designed, constructed, and maintained as to provide a safety factor of 4. This means that all members shall be capable of supporting four times the maximum strain to be imposed. This provision refers to buildings, docks, etc. designed and constructed subsequent to the effective date of these standards and also refers in all cases where either complete or major changes or repairs are made to such buildings, docks, tramways, walkways, log dumps and other structures.

(2) The floors of all buildings, platforms, walks and driveways, storage yards, docks, etc., and all parts thereof, and all supporting members shall be of substantial construction and kept in good repair and free from accumulations of debris. Floors which are maintained in a polished condition shall be polished with a nonslip preparation of an approved type.

(3) Flooring of buildings, ramps, docks, trestles and other structures required to support motive equipment shall be of not less than full two and one-half inch material. However, where flooring is covered by steel floor plates, 2 inch material may be used.

[Order 74-27, § 296-24-73513, filed 5/7/74.]

WAC 296-24-750 Guarding floor and wall openings and holes.

[Order 73-5, § 296-24-750, filed 5/9/73 and Order 73-4, § 296-24-750, filed 5/7/73.]

WAC 296-24-75001 Terms. The following terms shall have the meaning ascribed in this section, when referred to in WAC 296-24-75003 through 296-24-75011, unless the context requires otherwise.

(1) Floor hole. An opening measuring less than 12 inches but more than 1 inch in its least dimension, in any floor, platform, pavement, or yard, through which materials but not persons may fall; such as a belt hole, pipe opening, or slot opening.

(2) Floor opening. An opening measuring 12 inches or more in its least dimension, in any floor, platform, pavement, or yard, through which persons may fall; such as a hatchway, stair or ladder opening, pit, or large manhole. Floor openings occupied by elevators, dumb waiters, conveyors, machinery, or containers are excluded from this part.

(3) Handrail. A single bar or pipe supported on brackets from a wall or partition, as on a stairway or ramp, to furnish persons with a handhold in case of tripping.

(4) Platform. A working space for persons, elevated above the surrounding floor or ground; such as a balcony or platform for the operation of machinery and equipment.

(5) Runway. A passageway for persons, elevated above the surrounding floor or ground level, such as a footwalk along shafting or a walkway between buildings.

(6) Standard railing. A vertical barrier erected along exposed edges of a floor opening, wall opening, ramp, platform, or runway to prevent falls of person.

(7) Standard strength and construction. Any construction of railings, covers, or other guards that meets the requirements of WAC 296-24-750 through 296-24-75011.

(8) Stair railing. A vertical barrier erected along exposed sides of a stairway to prevent falls of persons.

(9) Toeboard. A vertical barrier at floor level erected along exposed edges of a floor opening, wall opening, platform, runway, or ramp to prevent falls of materials.

(10) Wall hole. An opening less than 30 inches but more than 1 inch high, of unrestricted width, in any wall or partition; such as a ventilation hole or drainage scupper.

(11) Wall opening. An opening at least 30 inches high and 18 inches wide, in any wall or partition, through which persons may fall; such as a yard-arm doorway or chute opening.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-75001, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-75001, filed 5/9/73 and Order 73-4, § 296-24-75001, filed 5/7/73.]

WAC 296-24-75003 Protection for floor openings. (1) Every stairway floor opening shall be guarded by a standard railing constructed in accordance with WAC 296-24-75011. The railing shall be provided on all exposed sides (except at entrance to stairway). For infrequently used stairways where traffic across the opening prevents the use of fixed standard railing (as when located in aisle spaces, etc.), the guard shall consist of a hinged floor opening cover of standard strength and construction and removable standard railings on all exposed sides (except at entrance to stairway).

(2) Every ladderway floor opening or platform shall be guarded by a standard railing with standard toeboard on all exposed sides (except at entrance to opening), with the passage through the railing either provided with a swinging gate or so offset that a person cannot walk directly into the opening.

(3) Every hatchway and chute floor opening shall be guarded by one of the following:

(a) Hinged floor opening cover of standard strength and construction equipped with standard railings or permanently attached thereto so as to leave only one exposed side. When the opening is not in use, the cover shall be closed or the exposed side shall be guarded at both top and intermediate positions by removable standard railings.

(b) A removable railing with toeboard on not more than two sides of the opening and fixed standard railings with toeboards on all other exposed sides. The removable railings shall be kept in place when the opening is not in use and should preferably be hinged or otherwise mounted so as to be conveniently replaceable.

Where operating conditions necessitate the feeding of material into any hatchway or chute opening, protection shall be provided to prevent a person from falling through the opening.

(c) The area under floor openings shall, where practical, be fenced off. When this is not practical, the areas shall be plainly marked with yellow lines and telltales shall be installed to hang within five and one-half feet of ground or floor level.

(d) Where floor openings are used to drop materials from one level to another, audible warning systems shall be installed and used to indicate to employees on the lower level that material is to be dropped.

(4) Every skylight opening and hole shall be guarded by a standard skylight screen or a fixed standard railing on all exposed sides.

(5) Every pit and trapdoor floor opening, infrequently used, shall be guarded by a floor opening cover of standard strength and construction which should be hinged in place. While the cover is not in place, the pit or trap opening shall be constantly attended by someone or shall be protected on all exposed sides by removable standard railings.

(6) Every manhole floor opening shall be guarded by a standard manhole cover which need not be hinged in place. While the cover is not in place, the manhole opening shall be constantly attended by someone or shall be protected by removable standard railings.

(7) Every temporary floor opening shall have standard railings, or shall be constantly attended by someone.

(8) Every floor hole into which persons can accidentally walk shall be guarded by either:

(a) A standard railing with standard toeboard on all exposed sides, or

(b) A floor hole cover of standard strength and construction that should be hinged in place. While the cover is not in place, the floor hole shall be constantly attended by someone or shall be protected by a removable standard railing.

(9) Every floor hole into which persons cannot accidentally walk (on account of fixed machinery, equipment, or walls) shall be protected by a cover that leaves no openings more than 1 inch wide. The cover shall be securely held in place to prevent tools or materials from falling through.

(10) Where doors or gates open directly on a stairway, a platform shall be provided, and the swing of the door shall not reduce the effective width to less than 20 inches.

[Order 74-27, § 296-24-75003, filed 5/7/74; Order 73-5, § 296-24-75003, filed 5/9/73 and Order 73-4, § 296-24-75003, filed 5/7/73.]

WAC 296-24-75005 Protection for wall openings and holes. (1) Every wall opening from which there is a drop of more than 4 feet shall be guarded by one of the following:

(a) Rail, roller, picket fence, half door, or equivalent barrier.

The guard may be removable but should preferably be hinged or otherwise mounted so as to be conveniently replaceable. Where there is exposure below to falling materials, a removable toeboard or the equivalent shall also be provided. When the opening is not in use for handling materials, the guard shall be kept in position regardless of a door on the opening. In addition, a grab handle shall be provided on each side of the opening with its center approximately 4 feet above floor level and of standard strength and mounting.

(b) Extension platform onto which materials can be hoisted for handling, and which shall have side rails or equivalent guards of standard specifications.

(2) Every chute wall opening from which there is a drop of more than 4 feet shall be guarded by one or more of the barriers specified in WAC 296-24-75005 (1)(a) and (b), or as required by the conditions.

(3) Every window wall opening at a stairway landing, floor, platform, or balcony, from which there is a drop of more than 4 feet, and where the bottom of the opening is less than 3 feet above the platform or landing, shall be guarded by standard slats, standard grill work (as specified in WAC 296-24-75011(11)), or standard railing.

Where the window opening is below the landing, or platform, a standard toeboard shall be provided.

(4) Every temporary wall opening shall have adequate guards but these need not be of standard construction.

(5) Where there is a hazard of materials falling through a wall hole, and the lower edge of the near side of the hole is less than 4 inches above the floor, and the far side of the hole more than 5 feet above the next lower level, the hole shall be protected by a standard toeboard, or an enclosing screen either of sold construction, or as specified in WAC 296-24-75011(11).

[Order 73-5, § 296-24-75005, filed 5/9/73 and Order 73-4, § 296-24-75005, filed 5/7/73.]

WAC 296-24-75007 Protection of open-sided floors, platforms and runways. (1) Every open-sided floor or platform 4 feet or more above adjacent floor or ground level shall be guarded by a standard railing (or the equivalent as specified in WAC 296-24-75011(3)) on all open sides, except where there is entrance to a ramp, stairway, or fixed ladder. The railing shall be provided with a toeboard wherever, beneath the open sides,

(a) Person can pass,

(b) There is moving machinery, or

(c) There is equipment with which falling materials could create a hazard.

(2) Every runway shall be guarded by a standard railing (or the equivalent as specified in WAC 296-24-75011(3) on all open sides 4 feet or more above floor or ground level. Wherever tools, machine parts, or materials are likely to be used on the runway, a toeboard shall also be provided on each exposed side.

Runways used exclusively for special purposes (such as oiling, shafting, or filling tank cars) may have the railing on one side omitted where operating conditions necessitate such omission, providing the falling hazard is minimized by using a runway of not less than 18 inches wide. Where persons entering upon runways become thereby exposed to machinery, electrical equipment, or other danger not a falling hazard, additional guarding than is here specified may be essential for protection.

(3) Regardless of height, open-sided floors, walkways, platforms, or runways above or adjacent to dangerous equipment, pickling or galvanizing tanks, degreasing units, and similar hazards shall be guarded with a standard railing and toeboard.

(4) Tools and loose materials shall not be left on overhead platforms and scaffolds.

[Order 76-6, § 296-24-75007, filed 3/1/76; Order 73-5, § 296-24-75007, filed 5/9/73 and Order 73-4, § 296-24-75007, filed 5/7/73.]

WAC 296-24-75009 Stairway railings and guards. (1) Every flight of stairs having four or more risers shall be equipped with standard stair railings or standard handrails as specified in (a) through (e) of this rule, except that vehicle service pit stairways will be exempt from the requirement if such hand or stair rails would prevent vehicle movement into a position over the pit, the width of the stair to be measured clear of all obstructions except handrails:

(a) On stairways less than 44 inches wide having both sides enclosed, at least one handrail, preferably on the right side descending.

(b) On stairways less than 44 inches wide having one side open, at least one stair railing on open side.

(c) On stairways less than 44 inches wide having both sides open, one stair railing on each side.

(d) On stairways more than 44 inches wide but less than 88 inches wide, one handrail on each enclosed side and one stair railing on each open side.

(e) On stairways 88 or more inches wide, one handrail on each enclosed side, one stair railing on each open side, and one intermediate stair railing located approximately midway of the width.

(2) Winding stairs shall be equipped with a handrail offset to prevent walking on all portions of the treads having width less than 6 inches.

(3) Nonindustrial and "monumental" steps are excluded as they are not "industrial" stairs; however, when public and private building steps are located at loading or receiving docks, in maintenance areas, etc., or are used exclusively by employees, the requirements of this standard shall apply.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-75009, filed 1/10/91, effective 2/12/91; 90-03-029 (Order 89-20), § 296-24-75009, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-75009, filed 5/9/73 and Order 73-4, § 296-24-75009, filed 5/7/73.]

WAC 296-24-75011 Railing, toeboards, and cover specifications. (1) A standard railing shall consist of top rail, intermediate rail, and posts, and shall have a vertical height of from thirty-six to forty-two inches nominal from upper surface of top rail to floor, platform, runway, or ramp level and:

(a) The top rail shall be smooth-surfaced throughout the length of the railing.

(b) The intermediate rail shall be approximately halfway between the top rail and the floor, platform, runway, or ramp.

(c) The ends of the rails shall not overhang the terminal posts except where such overhang does not constitute a projection hazard.

(d) Guardrails with heights greater than 42 inches are permissible provided the extra height does not create a dangerous situation for employees and that additional mid-rails were installed so that openings beneath the top rail would not permit the passage of a 19-inch or larger spherical object.

(2) A stair railing shall be of construction similar to a standard railing but the vertical height shall be not more than thirty-four inches nor less than thirty inches from upper surface of top rail to surface of tread in line with face of riser at forward edge of tread.

(3) Minimum requirements for standard railings under various types of construction are specified in this subsection. Dimensions specified are based on the U.S. Department of Agriculture Wood Handbook, No. 72, 1955 (No. 1 (S4S) Southern Yellow Pine (Modulus of Rupture 7, 400 p.s.i.)) for wood; ANSI G 41.5-1970, American National Standard Specifications for Structural Steel, for structural steel; and ANSI B 125.1-1970, American National Standard Specifications for Welded and Steamless Steel Pipe, for pipe.

(a) For wood railings, the posts shall be of at least two-inch by four-inch nominal stock spaced not to exceed six feet; the top and intermediate rails shall be of at least two-inch by four-inch nominal stock. If top rail is made of two right-angle pieces of one-inch by four-inch stock, posts may be spaced on eight-foot centers, with two-inch by four-inch intermediate rail.

(b) For pipe railings, posts and top and intermediate railings shall be at least one and one-half inches nominal diameter (outside diameter) with posts spaced not more than eight feet on centers.

(c) For structural steel railings, posts and top and intermediate rails shall be of two-inch by two-inch by three-eighths-inch angles or other metal shapes of equivalent bending strength with posts spaced not more than eight feet on centers.

(d) The anchoring of posts and framing of members for railings of all types shall be of such construction that the completed structure shall be capable of withstanding a load of at least two hundred pounds applied in any direction at any point on the top rail.

(e) Other types, sizes, and arrangements of railing construction are acceptable provided they meet the following conditions:

(i) A smooth-surfaced top rail at a height above floor, platform, runway, or ramp level of from thirty-six to forty-two inches nominal;

(ii) A strength to withstand at least the minimum requirement of two hundred pounds top rail pressure;

(iii) Protection between top rail and floor, platform, runway, ramp, or stair treads, equivalent at least to that afforded by a standard intermediate rail;

(iv) Elimination of overhang of rail ends unless such overhang does not constitute a hazard; such as, baluster railings, scrollwork railings, paneled railings.

(4) A standard toeboard shall be a minimum of four inches nominal in vertical height from its top edge to the level of the floor, platform, runway, or ramp. It shall be securely fastened in place and with not more than one-quarter-inch clearance above floor level. It may be made of any substantial material either solid or with openings not over one inch in greatest dimension.

Where material is piled to such height that a standard toeboard does not provide protection, paneling from floor to intermediate rail, or to top rail shall be provided.

(5) A handrail shall consist of a lengthwise member mounted directly on a wall or partition by means of brackets attached to the lower side of the handrail so as to offer no obstruction to a smooth surface along the top and both sides of the handrail. The handrail shall be of rounded or other section that will furnish an adequate handhold for anyone grasping it to avoid falling. The ends of the handrail should be turned in to the supporting wall or otherwise arranged so as not to constitute a projection hazard.

(a) The height of handrails shall be not more than thirty-four inches nor less than thirty inches from upper surface of handrail to surface of tread in line with face of riser or to surface of ramp.

(b) The size of handrails shall be: When of hardwood, at least two inches in diameter; when of metal pipe, at least one and one-half inches in diameter. The length of brackets shall be such as will give a clearance between handrail and wall or any projection thereon of at least one and one-half inches. The spacing of brackets shall not exceed eight feet.

(c) The mounting of handrails shall be such that the completed structure is capable of withstanding a load of at least two hundred pounds applied in any direction at any point on the rail.

(6) All handrails and railings shall be provided with a clearance of not less than one and one-half inches between the handrail or railing and any other object.

(7) Floor opening covers may be of any material that meets the following strength requirements:

(a) Trench or conduit covers and their supports, when located in plant roadways, shall be designed to carry a truck rear-axle load of at least twenty thousand pounds.

(b) Manhole covers and their supports, when located in plant roadways, shall comply with local standard highway requirements if any; otherwise, they shall be designed to carry a truck rear-axle of at least twenty thousand pounds.

(c) The construction of floor opening covers may be of any material that meets the strength requirements. Covers projecting not more than one inch above the floor level may be used providing all edges are chamfered to an angle with the horizontal of not over thirty degrees. All hinges, handles, bolts, or other parts shall set flush with the floor or cover surface.

(8) Skylight screens shall be of such construction and mounting that they are capable of withstanding a load of at least two hundred pounds applied perpendicularly at any one area on the screen. They shall also be of such construction and mounting that under ordinary loads or impacts, they will not deflect downward sufficiently to break the glass below them. The construction shall be of grillwork with openings not more than four inches long or of slatwork with openings not more than two inches wide with length unrestricted.

(9) Wall opening barriers (rails, rollers, picket fences, and half doors) shall be of such construction and mounting that, when in place at the opening, the barrier is capable of withstanding a load of at least two hundred pounds applied in any direction (except upward) at any point on the top rail or corresponding member.

(10) Wall opening grab handles shall be not less than twelve inches in length and shall be so mounted as to give one and one-half inches clearance from the side framing of the wall opening. The size, material, and anchoring of the grab handle shall be such that the completed structure is capable of withstanding a load of at least two hundred pounds applied in any direction at any point of the handle.

(11) Wall opening screens shall be of such construction and mounting that they are capable of withstanding a load of at least two hundred pounds applied horizontally at any point on the near side of the screen. They may be of solid construction, of grillwork with openings not more than eight inches long, or of slatwork with openings not more than four inches wide with length unrestricted.

[Statutory Authority: Chapter 49.17 RCW. 91-03-044 (Order 90-18), § 296-24-75011, filed 1/10/91, effective 2/12/91; 89-11-035 (Order 89-03), § 296-24-75011, filed 5/15/89, effective 6/30/89. Statutory Authority: RCW 49.17.040, 49.17.150, and 49.17.240. 79-08-115 (Order 79-9), § 296-24-75011, filed 7/31/79; Order 73-5, § 296-24-75011, filed 5/9/73 and Order 73-4, § 296-24-75011, filed 5/7/73.]

WAC 296-24-765 Fixed industrial stairs.

[Order 73-5, § 296-24-765, filed 5/9/73 and Order 73-4, § 296-24-765, filed 5/7/73.]

WAC 296-24-76501 Terms. The following terms shall have the meaning ascribed in this section when referred to in WAC 296-24-76503 through 296-24-76523 unless the context requires otherwise. (1) Handrail. A single bar or pipe supported on brackets from a wall or partition to provide a continuous handhold for persons using a stair.

(2) Nose, nosing. That portion of a tread projecting beyond the face of the riser immediately below.

(3) Open riser. The air space between the treads of stairways without upright members (risers).

(4) Platform. An extended step or landing breaking a continuous run of stairs.

(5) Railing. A vertical barrier erected along exposed sides of stairways and platforms to prevent falls of persons. The top member of railing usually serves as a handrail.

(6) Rise. The vertical distance from the top of a tread to the top of the next higher tread.

(7) Riser. The upright member of a step situated at the back of a lower tread and near the leading edge of the next higher tread.

(8) Stairs, stairway. A series of steps leading from one level or floor to another, or leading to platforms, pits, boiler rooms, crossovers, or around machinery, tanks, and other equipment that are used more or less continuously or routinely by employees, or only occasionally by specific individ-

uals. A series of steps and landings having three or more risers constitutes stairs or stairway.

(9) Tread. The horizontal member of a step.

(10) Tread run. The horizontal distance from the leading edge of a tread to the leading edge of an adjacent tread.

(11) Tread width. The horizontal distance from front to back of tread including nosing when used.

[Order 73-5, § 296-24-76501, filed 5/9/73 and Order 73-4, § 296-24-76501, filed 5/7/73.]

WAC 296-24-76503 Application of requirements. This section contains specifications for the safe design and construction of fixed general industrial stairs. This classification includes interior and exterior stairs around machinery, tanks, and other equipment, and stairs leading to or from floors, platforms, or pits. This section does not apply to stairs used for fire exit purposes, to construction operations, to private buildings or residences, or to articulated stairs, such as may be installed on floating roof tanks or on dock facilities, the angle of which changes with the rise and fall of the base support.

When stairs of public and private buildings are located at loading or receiving docks, in maintenance areas, etc., or are used exclusively by employees, the term "fixed industrial steps" will apply and be evaluated accordingly.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-76503, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-76503, filed 5/9/73 and Order 73-4, § 296-24-76503, filed 5/7/73.]

WAC 296-24-76505 Where fixed stairs are required. Fixed stairs shall be provided for access from one structure level to another where operations necessitate regular travel between levels, and for access to operating platforms at any equipment which requires attention routinely during operations. Fixed stairs shall also be provided where access to elevations is daily or at each shift for such purposes as gauging, inspection, regular maintenance, etc., where such work may expose employees to acids, caustics, gases, or other harmful substances, or for which purposes the carrying of tools or equipment by hand is normally required. (It is not the intent of this section to preclude the use of fixed ladders for access to elevated tanks, towers, and similar structures, overhead traveling cranes, etc., where the use of fixed ladders is common practice.) Spiral stairways shall not be permitted except for special limited usage and secondary access situations where it is not practical to provide a conventional stairway. Winding stairways may be installed on tanks and similar round structures where the diameter of the structure is not less than five feet.

[Order 73-5, § 296-24-76505, filed 5/9/73 and Order 73-4, § 296-24-76505, filed 5/7/73.]

WAC 296-24-76507 Stair strength. Fixed stairways shall be designed and constructed to carry a load of five times the normal live load anticipated but never of less strength than to carry safely a moving concentrated load of 1,000 pounds.

[Order 73-5, § 296-24-76507, filed 5/9/73 and Order 73-4, § 296-24-76507, filed 5/7/73.]

WAC 296-24-76509 Stair width. Fixed stairways shall have a minimum width of 22 inches.

[Order 73-5, § 296-24-76509, filed 5/9/73 and Order 73-4, § 296-24-76509, filed 5/7/73.]

WAC 296-24-76511 Angle of stairway rise. (1) Fixed stairs shall be installed at angles to the horizontal of between thirty degrees and fifty degrees. Any uniform combination of rise/tread dimensions may be used that will result in a stairway at any angle to the horizontal within the permissible range. Table D-1 gives rise/tread dimensions which will produce a stairway within the permissible range, stating the angle to the horizontal produced by each combination. However, the rise/tread combinations are not limited to those given in Table D-1.

(2) Because of space limitations a permanent stairway sometimes has to be installed at an angle above the fifty degree critical angle. Such installations are commonly called inclined ladders or ship's ladders, which shall have handrails on both sides and open risers. They shall be capable of sustaining a live load of one hundred pounds per square foot with a safety factor of four. The following preferred and critical angles from the horizontal shall be considered for inclined ladders and ship's ladders:

(a) Thirty-five to sixty degrees - Preferred angle from horizontal.

(b) Sixty to seventy degrees - Critical angle from horizontal.

[Statutory Authority: Chapter 49.17 RCW. 89-11-035 (Order 89-03), § 296-24-76511, filed 5/15/89, effective 6/30/89; Order 73-5, § 296-24-76511, filed 5/9/73 and Order 73-4, § 296-24-76511, filed 5/7/73.]

WAC 296-24-76513 Stair treads. Each tread and the top landing of a stairway, where risers are used, should have a nose which extends one-half inch to 1 inch beyond the face of the lower riser. Noses should have an even leading edge. All treads shall be reasonably slip-resistant and the nosings shall be of nonslip finish. Welded bar grating treads without nosings are acceptable providing the leading edge can be readily identified by personnel descending the stairway and provided the tread is serrated or is of definite nonslip design. Rise height and tread width shall be uniform throughout any flight of stairs including any foundation structure used as one or more treads of the stairs.

TABLE D-1

Angle to horizontal	Rise (in inches)	Tread run (in inches)
30°35'	6 1/2	11
32°08'	6 3/4	10 3/4
33°41'	7	10 1/2
35°16'	7 1/4	10 1/4
36°52'	7 1/2	10
38°29'	7 3/4	9 3/4
40°08'	8	9 1/2
41°44'	8 1/4	9 1/4
43°22'	8 1/2	9
45°00'	8 3/4	8 3/4
46°38'	9	8 1/2
48°16'	9 1/4	8 1/4
49°54'	9 1/2	8

[Order 73-5, § 296-24-76513, filed 5/9/73 and Order 73-4, § 296-24-76513, filed 5/7/73.]

WAC 296-24-76515 Length of stairways. Long flights of stairs, unbroken by landings or intermediate platforms, should be avoided. Consideration should be given to providing intermediate platforms where practical and where such stairways are in frequent use. Stairway platforms shall be no less than the width of a stairway and a minimum of 30 inches in length measured in the direction of travel.

[Order 73-5, § 296-24-76515, filed 5/9/73 and Order 73-4, § 296-24-76515, filed 5/7/73.]

WAC 296-24-76517 Railings and handrails. Standard railings shall be provided on the open sides of all exposed stairways and stair platforms. Handrails shall be provided on at least one side of closed stairways, preferably on the right side descending. Stair railings and handrails shall be installed in accordance with the provisions of WAC 296-24-75001 through 296-24-75011.

[Order 73-5, § 296-24-76517, filed 5/9/73 and Order 73-4, § 296-24-76517, filed 5/7/73.]

WAC 296-24-76519 Vertical clearance. Vertical clearance above any stair tread to an overhead obstruction shall be at least 7 feet measured from the leading edge of the tread.

[Order 73-5, § 296-24-76519, filed 5/9/73 and Order 73-4, § 296-24-76519, filed 5/7/73.]

WAC 296-24-76521 Open risers. Stairs having treads of less than 9-inch width should have open risers.

[Order 73-5, § 296-24-76521, filed 5/9/73 and Order 73-4, § 296-24-76521, filed 5/7/73.]

WAC 296-24-76523 General. Open grating type treads are desirable for outside stairs.

[Order 73-5, § 296-24-76523, filed 5/9/73 and Order 73-4, § 296-24-76523, filed 5/7/73.]

WAC 296-24-76555 Alternating tread-type stairs. Alternating tread-type stairs have a series of steps between 50 and 70 degrees from horizontal, attached to a center support rail in an alternating manner so that a user of the stairs never has both feet at the same level at the same time. (See Figure D-12.)

(1) Alternating tread-type stairs shall be designed, installed, used, and maintained in accordance with approved manufacturer's specifications, and shall have the following:

(a) Stair rails on all open sides;

(b) Handrails on both sides of enclosed stairs;

(c) Stair rails and handrails of such configuration as to provide an adequate handhold for a user grasping it to avoid a fall;

(d) A minimum of 17 inches between handrails;

(e) A minimum width of 22 inches overall;

(f) A minimum tread depth of 8 inches;

(g) A minimum tread width of 7 inches; and

(h) A maximum rise of 9 1/2 inches to the tread surface of the next alternating tread.

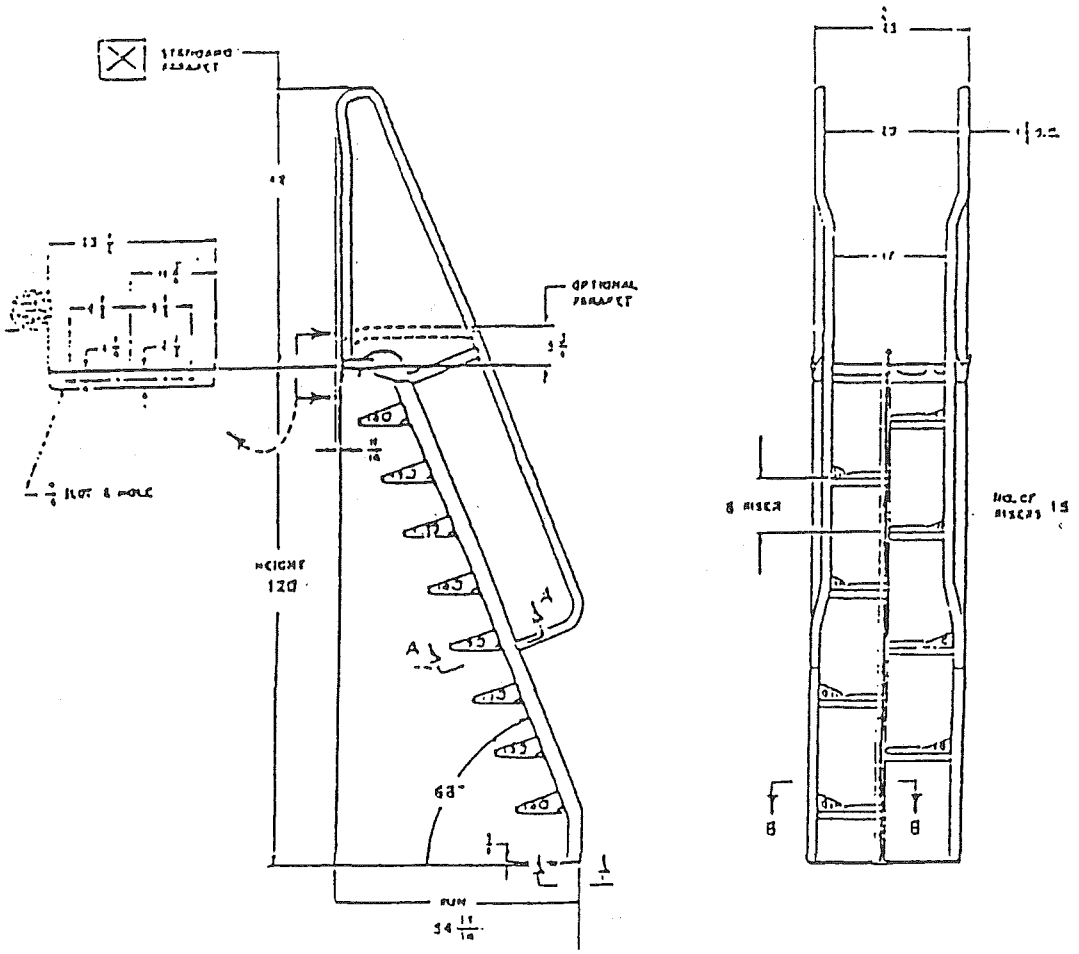
(2) Alternating tread-type stairs shall not have more than a 20-foot continuous rise. Where more than a 20-foot rise is necessary to reach the top of a required stair, one or more intermediate platforms shall be provided in accordance with WAC 296-24-76515.

(3) Stairs and platforms shall be installed so the top landing of the alternating tread stair is flush with the top of the landing platform.

(4) Stair design and construction shall sustain a load of not less than five times the normal live load, but never less strength than to carry safely a moving concentrated load of 1,000 pounds.

(5) Treads shall be equipped with slip-resistant surfaces.

(6) Where a platform or landing is used, the width shall not be less than the width of the stair nor less than 30-inch depth in the direction of travel. Stairs shall be flush with the top of the landing platform.



[Statutory Authority: Chapter 49.17 RCW. 92-17-022 (Order 92-06), § 296-24-76555, filed 8/10/92, effective 9/10/92; 91-03-044 (Order 90-18), § 296-24-76555, filed 1/10/91, effective 2/12/91.]

WAC 296-24-780 Portable wood ladders. The following terms shall have the meaning ascribed in this section when referred to in WAC 296-24-78003 through 296-24-78009 unless the context requires otherwise. (1) Ladders. A ladder is an appliance usually consisting of two side rails joined at regular intervals by crosspieces called steps, rungs, or cleats, on which a person may step in ascending or descending.

(2) Stepladder. A stepladder is a self-supporting portable ladder, nonadjustable in length, having flat steps and a hinged back. Its size is designated by the overall length of the ladder measured along the front edge of the side rails.

(3) Single ladder. A single ladder is a nonself-supporting portable ladder, nonadjustable in length, consisting of but one section. Its size is designated by the overall length of the side rail.

(4) Extension ladder. An extension ladder is a nonself-supporting portable ladder adjustable in length. It consists of two or more sections traveling in guides or brackets so arranged as to permit length adjustment. Its size is designated by the sum of the lengths of the sections measured along the side rails.

(5) Sectional ladder. A sectional ladder is a nonself-supporting portable ladder, nonadjustable in length consisting of two or more sections of ladder so constructed that the sections may be combined to function as a single ladder. Its size is designated by the overall length of the assembled sections.

(6) Trestle ladder. A trestle ladder is a self-supporting portable ladder, nonadjustable in length, consisting of two sections hinged at the top to form equal angles with the base. The size is designated by the length of the side rails measured along the front edge.

(7) Extension trestle ladder. An extension trestle ladder is a self-supporting portable ladder, adjustable in length, consisting of a trestle ladder base and a vertically adjustable single ladder, with suitable means for locking the ladders together. The size is designated by the length of the trestle ladder base.

(8) Special-purpose ladder. A special-purpose ladder is a portable ladder which represents either a modification or a combination of design or construction features in one of the general-purpose types of ladders previously defined, in order to adapt the ladder to special or specific uses.

(9) Trolley ladder. A trolley ladder is a semifixed ladder, nonadjustable in length, supported by attachments to an overhead track, the plane of the ladder being at right angles to the plane of motion.

(10) Side-rolling ladder. A side-rolling ladder is a semifixed ladder, nonadjustable in length, supported by attachments to a guide rail, which is generally fastened to shelving, the plane of the ladder being also its plane of motion.

(11) Wood characteristics. Wood characteristics are distinguishing features which by their extent and number determine the quality of a piece of wood.

(12) Wood irregularities. Wood irregularities are natural characteristics in or on wood that may lower its durability, strength, or utility.

(13) Cross grain. Cross grain (slope of grain) is a deviation of the fiber direction from a line parallel to the sides of the piece.

(14) Knot. A knot is a branch or limb, imbedded in the tree and cut through in the process of lumber manufacture, classified according to size, quality, and occurrence. The size of the knot is determined as the average diameter on the surface of the piece.

(15) Pitch and bark pockets. A pitch pocket is an opening extending parallel to the annual growth rings containing, or that has contained, pitch, either solid or liquid. A bark pocket is an opening between annual growth rings that contains bark.

(16) Shake. A shake is a separation along the grain, most of which occurs between the rings of annual growth.

(17) Check. A check is a lengthwise separation of the wood, most of which occurs across the rings of annual growth.

(18) Wane. Wane is bark, or the lack of wood from any cause, on the corner of a piece.

(19) Decay. Decay is disintegration of wood substance due to action of wood-destroying fungi. It is also known as dote and rot.

(20) Compression failure. A compression failure is a deformation (buckling) of the fibers due to excessive compression along the grain.

(21) Compression wood. Compression wood is an aberrant (abnormal) and highly variable type of wood structure occurring in softwood species. The wood commonly has density somewhat higher than does normal wood, but somewhat lower stiffness and tensile strength for its weight in addition to high longitudinal shrinkage.

(22) Low density. Low-density wood is that which is exceptionally light in weight and usually deficient in strength properties for the species.

[Order 73-5, § 296-24-780, filed 5/9/73 and Order 73-4, § 296-24-780, filed 5/7/73.]

WAC 296-24-78003 Application of requirements. This section is intended to prescribe rules and establish minimum requirements for the construction, care, and use of the common types of portable wood ladders, in order to insure safety under normal conditions of usage. Other types of special ladders, fruit-picker's ladders, industrial tripod ladders, combination step and extension ladders, stockroom step ladders, aisle-way step ladders, shelf ladders, and library ladders are not specifically covered by this section.

[Order 73-5, § 296-24-78003, filed 5/9/73 and Order 73-4, § 296-24-78003, filed 5/7/73.]

WAC 296-24-78005 Materials. (1) Requirements applicable to all wood parts.

(a) All wood parts shall be of the species specified in Table D-5, seasoned to a moisture content of not more than 15 percent; smoothly machined and dressed on all sides; free from sharp edges and splinters; sound and free by accepted visual inspection from shake, wane, compression failures, decay, or other irregularities except as hereinafter provided. Low-density wood shall not be used.

(b) Black streaks in western hemlock shall not be considered an irregularity, except that chambers associated with black streaks when present in the part, shall be limited as specified for pitch and bark pockets.

(2) Permissible irregularities in side rails and back rails.

(a) The general slope of grain in side rails of minimum dimension shall not be steeper than 1 in 12, except that for ladders under 10 feet in length and having flat steps for treads, the general slope of grain shall not be steeper than 1 in 10. The slope of grain in areas of local grain deviation shall not be steeper than 1 in 12 or 1 in 10 as specified above when occurring on the edges or in the outer one-fourth of the width of the wide face. Local areas of grain deviation within the center half of the width of the wide face may contain grain slope as steep as 1 in 8. Local deviations of grain associated with otherwise permissible irregularities are permitted.

(b) Knots shall not appear in narrow faces of side rails. Knots, if tight and sound and less than one-half inch in diameter, are permitted on the wide face provided they are at least one-half inch back from either edge and not more frequent than 1 to any 3 feet of ladder length.

(c) Pitch and bark pockets are permitted provided they are not more than one-eighth inch in width, or more than 2 inches in length, or more than one-half inch in depth, and then only if they are not more frequent than 1 to any 3 feet of ladder length.

(d) Checks are permitted on side rails provided they are not more than 6 inches in length or more than one-half inch in depth.

(e) Occurrences of compression wood in relatively small amounts and positively identified by competent and conscientious visual inspection of side rails are permitted provided no single streak shall exceed one-half inch in width nor shall the aggregate of streaks exceed one-fourth of the face of the side rail. Borderline forms of compression wood not positively identified by competent and conscientious visual inspection are permitted. Ladder parts containing bow or crook which would interfere with the operation of the ladder shall not be used.

(3) Permissible irregularities in flat steps, rungs, and cleats.

(a) The general slope of grain in flat steps of minimum dimension shall not be steeper than 1 in 12, except that for ladders under 10 feet in length the slope of grain shall not be steeper than 1 in 10. The slope of grain in areas of local deviation shall not be steeper than 1 in 12 or 1 in 10 as specified above. For all ladders, cross grain not steeper than 1 in 10 are permitted in lieu of 1 in 12, provided the size is increased to afford at least 15 percent greater calculated strength than for ladders built to minimum dimensions. Local deviations of grain associated with otherwise permissible irregularities are permitted.

(b) The general slope of grain and that in areas of local deviations of grain shall not be steeper than 1 in 15 in rungs and cleats. For all ladders cross grain not steeper than 1 in 12 are permitted in lieu of 1 in 15, provided the size is increased

to afford at least 15 percent greater calculated strength for ladders built to minimum dimensions. Local deviations of grain associated with otherwise permissible irregularities are permitted.

(c) Knots over one-eighth inch in diameter shall not appear in rungs. Knots shall not appear in the narrow faces of flat steps and cleats. Knots appearing in the wide faces of flat steps and cleats shall not exceed a diameter of one-fourth inch.

(4) Classification of species of wood. Table D-5 gives a list of native woods, divided into four groups on the basis of mechanical properties considered from the standpoint of use for ladder construction.

(a) All minimum dimensions and specifications set forth in (b)(ii) for side rails and flat steps are based on the species of wood listed in Group 3 in Table D-5 except where otherwise provided. The species of all other groups may be substituted for those of Group 3 when used in sizes that provide at least equivalent strength. (See Table D-5 for suggested methods of size adjustment.)

(b) All minimum dimensions and specifications set forth in the following "factor for increase in" for rungs and cleats are based on the species of wood listed in Group 1 in Table D-5. The cross-sectional dimensions specified for Group 1 species are increased by the factors shown in this subsection (based on the percentages of Table D-5) for the species group of which the cleats are to be made.

FACTOR FOR INCREASE IN

Species group	Each dimension	Width only (thickness unchanged)
1	1.00	1.00
2	1.03	1.05
3	1.11	1.19
4	1.17	1.26

(5) Metal parts. All metal parts shall be made of aluminum, steel, wrought iron, malleable iron, or other material, adequate in strength for the purpose intended, and shall be properly coated and protected so as to be rust resistant.

[Order 73-5, § 296-24-78005, filed 5/9/73 and Order 73-4, § 296-24-78005, filed 5/7/73.]

WAC 296-24-78007 Construction requirements. (1) Basis of requirements.

(a) Dimensions specified hereinafter for wood ladders are the minimum dressed cross-sectional dimensions for the types of ladders herein designated, based on the species of woods specified in WAC 296-24-78005(4), at a moisture content of 15 percent. The dimensions for side rails are based on a mortise or gain as specified for the various types of ladders for step or rung attachments. Where the strength of the side rails or back legs is reduced by a greater mortise or gain than shown, or where it is desired to use a cross section for any wood part either dimension of which is less than that specified, the required dimensions may be found as indicated in (1)(b) of this section.

(b) For the side rails of single extension and sectional ladders, the proposed section shall develop an actual stress per square inch not greater than 2,150 pounds for Group 1 woods, 2,000 pounds for Group 2 woods, 1,600 pounds for Group 3 woods, or 1,375 pounds for Group 4 woods when computed by the following formula applying to rectangular sections, with a maximum tolerance of 5 percent over these stresses:

$$S = \frac{3\,LD\,(P+W/16)}{2B\,(D^3-d^3)} = \frac{1.5\,LD\,(25+W/16)}{B\,(D^3-0.67)}$$

P = 25 pounds, which is the normal component on each rail of a load of 200 pounds at the center of the ladder, equally distributed between the rails, when the foot of the ladder is moved out of the perpendicular by one-quarter of its length.
S = Stress in extreme fiber in pounds per square inch.
W = Weight of ladder in pounds.
L = Maximum working length of ladder in inches.
B = Net thickness of each side rail in inches.
D = Depth of side rail in inches.
d = Diameter of hole board for rung (d^3 shall be taken as not less than 0.67).

(c) Adjustment of sizes for wood parts of stepladders and other ladder types covered by this section may be made as follows:

(i) The dimensions specified in later sections for parts having rectangular cross sections generally represent only one of a number of possible combinations of thickness and width which could satisfy the requirements for strength and stiffness. Depending upon the material sizes available, manufacturing practices, and like factors, parts produced by a particular manufacturer may or may not agree exactly with the sizes given later. The following provisions provide means for determining equality of load-carrying capacity of parts of different sizes or of determining sizes needed to provide equality.

(ii) Any changes in dimensions shall result in a change in the width-thickness ratio for side rails of back legs not greater than 25 percent from the ratio for a corresponding ladder as now covered in this section.

(iii) Where both dimensions are different from those specified, the load-carrying capacity in bending of a part will be equal to or greater than that of a part of specified dimensions if the ratio P_2/P_1 is not less than 1, where

$$\frac{P_2}{P_1} = \frac{B_2D_2^2}{B_1D_1^2}$$

and

B = Dimension of the part at right angles to the direction of load (width of a step, thickness of a side rail or back leg).
D = Dimension of the part parallel to the direction of load (thickness of a step, width of a side rail or back leg).
B_1D_1 = Dimensions as specified.
B_2D_2 = Dimensions of part being considered.

(iv) The dimensions to be used in the computations are net dimensions. For example, in the case of a stepladder side rail, the dimension B is to be taken as the gross thickness of

the rail minus the depth of the gain for the steps. Where there is a rung hole at the center of depth of a rail, a somewhat more accurate comparison may be made by the use of the formula

$$\frac{P_2}{P_1} = \frac{B_2D_1 (D_2^3-d^3)}{B_1D_2 (D_1^3-d^3)}$$

where the symbols have the same meanings as before and d is the diameter of the hole for the rung tenon. In most instances the difference in results calculated by this and by the earlier formula will be slight.

(2) Portable stepladders. Stepladders longer than 20 feet shall not be supplied. Stepladders as hereinafter specified shall be of three types:

Type I—Industrial stepladder, 3 to 20 feet for heavy duty, such as utilities, contractors, and industrial use.

Type II—Commercial stepladder, 3 to 12 feet for medium duty, such as painters, offices, and light industrial use.

Type III—Household stepladder, 3 to 6 feet for light duty, such as light household use.

(a) General requirements.

(i) Slope is the inclination of side rails or back legs with respect to the vertical and is expressed as a deviation from the vertical per unit length of the member. Stepladders shall be so constructed, that when in the open position, the slope of the front section shall not be less than 3 1/2 inches and the slope of the back section not less than 2 inches, for each 12-inch length of side rail.

(ii) A uniform step spacing shall be employed which shall be not more than 12 inches. Steps shall be parallel and level when the ladder is in position for use.

(iii) The minimum width between side rails at the top, inside to inside, shall be not less than 11 1/2 inches. From top to bottom, the side rails shall spread at least 1 inch for each foot of length of stepladder.

(iv) When minimum thickness of side rails is used, steps shall be closely fitted into the grooves in the side rails one-eighth inch in depth with a tolerance of one thirty-second inch, and shall be firmly secured as hereinafter described; or they shall be closely fitted into metal brackets of an equivalent strength, which in turn shall be firmly secured to the side rails. The depth of groove herein provided may be increased in proportion to the thickness of side rails as provided in WAC 296-24-78007 (2)(b), (c) and (d).

(v) All stepladders shall have a top with wood or metal brackets or fittings tightly secured to the top, side rails, and back legs, to allow free swinging of the back section without excessive play or wear at the joints.

(vi) A metal spreader or locking device of sufficient size and strength to securely hold the front and back sections in open positions shall be a component of each stepladder. The spreader shall have all sharp points covered or removed to protect the user. For Type III ladder, the pail shelf and spreader may be combined in one unit (the so-called shelf-lock ladder).

(vii) When measured along the front edge of the side rails, all stepladders shall measure within 3 inches of the specified length.

(viii) Where bucket shelves are provided, they shall be constructed to support a load of 25 pounds and shall be so fastened that they can be folded up when the ladder is closed.

(ix) All metal parts and fittings shall be securely attached by means of rivets, bolts, screws, or equivalent fasteners.

(b) Type I industrial stepladder.

(i) The minimum dimensions of the parts of the Type I stepladder shall be as shown in Table D-2 when made of Group 2 or Group 3 woods.

(A) The minimum thickness of side rails provides for the cutting of a groove of one-eighth inch in depth with the tolerance indicated in WAC 296-24-78007 (2)(a)(iv), and shall be increased when grooves of greater depth are used.

(ii) Steps shall be secured with at least two 6-d nails at each end, or the equivalent thereof. Each step shall be reinforced by a steel rod not less than 3/16 inch in diameter with standard commercial tolerances, which shall pass through metal washers of sufficient thickness and diameter on each end to prevent pressing—into the side rails, and a truss block which shall be fitted between the rod and the center of each step, or by a metal angle brace on each end firmly secured to the steps and side rails, or by construction of equivalent strength and safety. Where the rod reinforcement construction is used, the bottom step shall be provided further with a metal angle brace on each end which shall be securely attached to the bottom step and side rails. In addition, all steps 3 5/8 inches wide and 27 inches or more in overall length and all steps 4 1/4 inches wide and 32 inches or more in overall length shall be provided with a metal angle brace at each end securely attached to the step and side rail.

(iii) The back section shall be braced by one of the following methods:

(A) The back legs shall be braced with 1 1/8-inch diameter rungs of Group 1 woods (see Table D-5), or material of equivalent strength, having 7/8-inch diameter tenons or oval wood rungs, or rectangular wood rungs of equivalent strength, spaced not more than 12 inches apart. The back legs shall be bored with holes either extending through the legs or to within three-sixteenths inch of the outside face of the legs, the size of the hole to be such as to insure a tight fit for the rung. The shoulder of the rung shall be forced firmly against the leg, and the tenon secured in place with a nail, or the equivalent thereof, to prevent turning of the rungs. The back legs shall be braced by a metal angle brace on each side, securely fastened to the rung and the back legs, one rung to be braced for each 4 feet of length or fraction thereof, on ladders 4 feet or more in length, with braces required only on the bottom rung for ladders that are 4 feet or shorter. Where rungs are more than 28 inches in length between the back legs they shall be provided with center bearing consisting of a wood bar not less than 3/4 by 2 inches in a cross-section securely nailed to each rung passing through it and long enough to include each rung longer than 28 inches.

(B) The back leg shall be braced with horizontal wood bars of Group 1, 2, or 3 woods in Table D-5 and not less than 3/4 by 2 1/2 inches in cross-section, spaced not more than 12 inches apart. The ends of the bars shall fit into metal sockets of not less than 20-gauge (manufacturers standard) steel, or other material of equivalent strength, or into mortises of not less than one-eighth inch (tolerance of ± one-thirty-second

inch) in depth in the back legs. A steel rod not less than 3/16 inch in diameter with standard commercial tolerance shall pass through the back legs, the bar, and at each end through metal washers of sufficient diameter and thickness to prevent passing into the back legs. The back legs shall also be braced by a metal angle brace on each side, securely fastened to the bar and to the legs, one bar to be so braced for at least each 4 feet of length or fraction thereof, with braces required only on bottom bar for ladders that are 4 feet or shorter. Metal sockets when used shall be attached to the back legs by rivets or by means of a rod running through the socket or equivalent thereof.

(iv) The back legs shall be reinforced by a rivet through the depth of the leg above the hinge point, by metal plates or collars at the hinge point, or by other means suitable for preventing splitting of the back leg from the hinge pin to the top.

(c) Type II commercial stepladder.

(i) The minimum dimensions of the parts of the Type II stepladder shall be as given in Table D-3 when made of Group 2 or Group 3 woods.

(A) The minimum thickness of side rails provides for the cutting of a groove of one-eighth inch in depth with the tolerance indicated in (2)(a)(iv), and shall be increased when grooves of greater depth are used.

(ii) Steps shall be secured with at least two 6-d nails at each end, or the equivalent thereof. Each step shall be reinforced by a steel rod not less than 3/16 inch in diameter with standard commercial tolerances which shall pass through metal washers of sufficient thickness and diameter on each end to prevent pressing into the side rails, and a truss block shall be fitted between the truss rod and center of each step; or by a metal angle brace on each end firmly secured to the steps and side rails; or by construction of equivalent strength and safety. Where the rod reinforcement construction is used, the bottom step shall be provided further with a metal angle brace on each end which shall be securely attached to the bottom step and side rails. In addition all steps 27 inches or more in overall length shall be provided with a metal angle brace at each end securely attached to the step and side rails.

(iii) The back legs shall be braced by one of the three following methods:

(A) With 7/8-inch diameter wood dowels of Group 1 woods (see Table D-5) or material of equivalent strength having not less than 5/8-inch tenons firmly secured in the back legs and spaced not more than 12 inches apart. The back legs shall be bored with holes either extending through the legs or to within three-sixteenths inch of the outside face of the legs, the size of the hole to be such as to insure a tight fit for the dowel. The shoulder of the dowel shall be forced firmly against the leg and the tenon secured in place with a nail, or the equivalent thereof, to prevent turning of the dowel.

(aa) A bar connecting two or more of the dowels shall be provided on all ladders of 6 feet or more. The cross-sectional dimensions of the bar shall be the same as the cross-sectional dimensions of the back legs, and the dowels shall pass through holes at the centerline of the bar. The bar shall be attached at the center of the length of the lower two dowels on a 6-foot ladder and shall extend upward one dowel for each 2 feet of added length.

(B) With wood dowels as set forth in (2)(c)(iii)(A) of this section, plus an inverted V bracing of 3/4-inch by 1 1/2-inch material through which the dowels extend, the length of the V to extend two-thirds of the way up the back.

(C) With horizontal bracing of Group 1, 2, 3, or 4 woods (see Table D-5) not less than 3/4 by 2 inches in cross-section, the ends of which shall fit into metal sockets of not less than 20-gauge (manufacturing standard), steel, or other material of equivalent strength or into mortises not less than one-eighth inch in depth in back legs. The bars shall be reinforced by steel rods not less than 3/16 inch in diameter with standard commercial tolerances which shall pass through the back legs, the bar, and, at each end, through metal washers of sufficient diameter and thickness to prevent pressing into the back legs. The spacing of such braces shall not exceed 3 feet, and there shall be one brace on 3- and 4-foot ladders, two braces on 5- and 6-foot ladders, three braces on 7- and 8-foot ladders, and four braces on 10- and 12-foot ladders. The bottom bar shall not be more than 18 inches from the bottom of the ladder, and, where only one bar is used, it shall be braced by a metal angle brace on each end securely attached to the bar and the back leg.

(d) Type III household stepladder.

(i) The minimum dimensions of the parts of the Type III stepladder shall be as follows when made of Group 2 or Group 3 woods.

	Length, 3 to 6 feet	
	Thickness (inch)	Depth (inches)
Side rails	3/4	2 1/2
Back legs	3/4	1 5/16
Steps	3/4	3
Top	3/4	5

The minimum thicknesses of side rails provide for the cutting of a groove one-eighth inch in depth with the tolerance indicated in WAC 296-24-78007 (2)(a)(iv), and shall be increased when grooves of greater depth are used.

(ii) Steps shall be secured with at least one 6-d!ht nail at each end, or the equivalent thereof. Each step shall be reinforced by a steel rod not less than 3/16 inch in diameter with standard commercial tolerance which shall pass through metal washers of sufficient thickness and diameter to prevent pressing into the side rails, or by a metal brace at each end firmly secured to steps and side rails or by construction of equivalent strength and safety. Where the rod reinforcement construction is used, the bottom step shall be provided further with a metal angle brace on each end which shall be securely attached to the bottom step and side rail.

(iii) Back legs shall be braced by one of the two following methods or by construction of equivalent strength and safety:

(A) By diagonal slates of groups 1, 2, 3, or 4 wood (see Table D-5) not less than 5/16 by 1 1/4 inches securely fastened to the back legs by nails, screws, or the equivalent thereof.

(B) With horizontal bracing of Groups 1, 2, 3, or 4 wood (see Table D-5) not less than 5/8 by 1 5/8 inches in cross section, the ends of which shall fit into metal sockets of not less than 20-gauge (manufacturing standard) steel or other mate-

rial of equivalent strength or into mortises not less than one-eighth inch in depth in back legs. The bars shall be reinforced by steel rods not less than 3/16 inch in diameter with standard commercial tolerances which shall pass through the back leg, the bar, and at each end through metal washers of sufficient diameter and thickness to prevent pressing into each leg. The spacing of such bars shall not exceed 3 feet, and there shall be one brace on 3- and 4-foot ladders, two braces on 5- and 6-foot ladders. The bottom bar shall be not more than 18 inches from the bottom of the ladder.

(3) Portable rung ladders. Portable rung ladders as herein specified shall be of four types, as follows: Single ladder; two-section extension ladder; section ladder; trestle and extension trestle ladder.

(a) General requirements.

(i) The base or lower portion of a ladder may have either parallel sides or flared sides in accordance with commercial practice.

(ii) Rungs shall be parallel, level, and uniformly spaced. The spacing shall be not more than 12 inches, except as hereinafter specified.

TABLE D-2
DIMENSIONS FOR TYPE I STEP LADDER

	Length, 12 feet and less		Length, 14 and 16 feet		Length, 18 and 20 feet	
	Thickness (inch)	Depth (inches)	Thickness (inch)	Depth (inches)	Thickness (inch)	Depth (inches)
Side rails	3/4	3 1/4	3/4	3 1/2	1 1/16	3 1/2
Back legs	3/4	2 1/4	3/4	2 5/8	1 1/16	2 1/4
Steps	3/4	3 5/8	3/4	4 1/4	3/4	4 1/4
Tops	3/4	5 1/2	3/4	5 1/2	3/4	5 1/2

TABLE D-3
DIMENSIONS FOR TYPE II STEP LADDER

	Length, 3 to 8 feet		Length, 10 feet		Length, 12 feet	
	Thickness (inch)	Depth (inches)	Thickness (inch)	Depth (inches)	Thickness (inch)	Depth (inches)
Side rails	3/4	2 5/8	3/4	2 5/8	3/4	3
Back legs	3/4	1 5/8	3/4	1 3/4	3/4	2
Steps	3/4	3 1/2	3/4	3 1/2	3/4	3 5/8
Tops	3/4	5	3/4	5	3/4	5

(iii) All holes for wood rungs shall either extend through the side rails or be bored so as to give at least a thirteen-sixteenths-inch length of bearing to the rung tenon. In through-bored construction, the rungs shall extend at least flush with the outside rail surface. All holes shall be located on the center line of the wide face of the side rails and shall be of such size as to insure a tight fit for the rung. The shoulder of the rung shall be forced firmly against the side rails and the tenon secured in place with a nail or the equivalent thereof, for the sole purpose of preventing the turning of the rung and maintaining the rung position in the side rail. Ladders used with ladder jacks shall be a 3/16 inch metal tie rod immediately under each rung.

(iv) Round rungs shall be of Group 1 woods (see Table D-5), shall be not less than 1 1/8 inches in diameter for lengths over 36 inches between side rails and 1 1/4 inches in diameter for lengths over 36 up to and including 72 inches, and shall have not less than seven-eighths-inch-diameter tenons, or rungs of equivalent strength and bearing shall be provided. When rungs are 28 inches or more in length between side rails, they shall, in addition, be provided with center bearing.

(v) Oval rungs or rungs of any other cross section may be used provided they are secured by a nail at each end or the equivalent thereof, and have at least the same strength and bearing as round rungs of the same length.

(vi) All metal parts and fittings shall be securely attached by means of rivets, bolts, screws, or equivalent fasteners.

(vii) The construction and assembly of the movable parts shall be such that they shall operate freely and securely without binding or unnecessary play.

(viii) When measured along the side rails, no rung ladder or section thereof shall be more than 4 inches shorter than the specified length.

(ix) Nonslip bases shall be securely bolted, riveted, or attached by equivalent construction to the side rails.

(x) Hooks shall be securely bolted or riveted to the side rails or equivalent construction and shall be of such dimensions as to withstand the loads imposed upon them.

(b) Single ladder.

(i) Single ladders longer than 30 feet shall not be supplied.

(ii) The minimum dimensions of the side rails of the single ladder shall be as follows when made of Group 2 or Group 3 woods:

Length of ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 16	1 1/8	2 1/2
Over 16 up to and including 22	1 1/4	2 3/4
Over 22 up to and including 30	1 1/4	3

(iii) Smaller side rails will be acceptable in all ladders of this type when reinforced by a steel wire, rod, or strap running the length of the side rails and adequately secured thereto. Where such reinforcement is used, the reinforced rails shall be equivalent in strength to the side rails specified in this WAC 296-24-78007 (3)(b)(ii).

(iv) The width between the side rails at the base, inside to inside, shall be at least 11 1/2 inches for all ladders up to and including 10 feet. Such minimum widths shall be increased at least one-fourth inch for each additional 2 feet of length.

(c) Two-section ladder.

(i) Two-section extension ladders longer than 60 feet shall not be supplied. All ladders of this type shall consist of two sections, one to fit within the side rails of the other, and arranged in such a manner that the upper section can be raised and lowered.

(ii) The minimum dimensions of the side rails of the two-section extension ladder shall be not less than specified in Table D-4.

(iii) The minimum dimensions of side rails set forth in Table D-4 are based on the maximum working length, which is the size of ladder less the minimum overlap, which shall be as follows:

Size of ladder (feet):	Overlap (feet)
Up to and including 36	3
Over 36 up to and including 48	4
Over 48 up to and including 60	5

(iv) Smaller side rails will be acceptable in all ladders of this type when reinforced by a steel wire, rod, or strap running the length of the side rails and adequately secured thereto. Where such reinforcement is used, the reinforced rails shall be equivalent in strength to the side rails specified in Table D-4.

(v) The minimum distance between side rails of the bottom section, inside to inside, shall be 14 1/2 inches on ladders up to and including 28 feet; 16 inches on all ladders over 28 feet up to and including 40 feet; 18 inches on all ladders over 40 feet.

(vi) Rungs. Rungs shall be of white oak, ash, hickory, or wood of equivalent strength not less than 1 1/8 inches in diameter with at least a 7/8 inch diameter tenon. Where the distance between side rails is more than 28 inches rungs shall be supported in the center. Holes for wood rungs shall either extend through the side rails or be bored to give at least a 13/16 inch length of bearing to the rung tenon. In through-bored construction the rungs shall extend at least flush with the outside rail surface. Holes shall be located on the center line of the wide face of the side rails and shall be of such size as to be a tight fit for the rung. The shoulder of the rung shall be forced firmly against the side rails and the tenon secured in place with a nail, or the equivalent thereof, to prevent turning. A 3/16 inch diameter tie rod shall be placed under each rung.

(vii) All locks and guide irons shall be of metal and shall be of such construction and strength as to develop the full strength of the side rails. All locks shall be positive in their action. The guide irons shall be securely attached and so placed as to prevent the upper section from tipping or falling out while raising, lowering, or in use.

(viii) Ladders of this type may be equipped with a rope and pulley, which shall be securely attached to the ladder in such manner as not to weaken either the rungs or the side rails. The pulley shall be not less than 1 1/4 inches in diameter.

(A) The rope used with the pulley shall be not less than five-sixteenths inch in diameter having a minimum breaking strength of 560 pounds, and shall be sufficient length for the purpose intended.

(d) Sectional ladder.

(i) Assembled combinations of sectional ladders longer than lengths specified in (3)(d)(ii) shall not be used.

(ii) The minimum dimensions of side rails shall be as follows for Group 2 or Group 3 woods:

Assembled length of ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 21	1 1/8	2 3/4
Over 21 up to and including 31	1 1/8	3 1/8

TABLE D-4
DIMENSIONS OF SIDE RAILS FOR TWO-SECTION LADDER

Size of ladder, overall length (feet)	Rail		
	Thickness (inches)		Depth (inches)
For group 2 woods			
16	1 1/16	X	2
20	1 1/16	X	2 1/4
24	1 1/16	X	2 1/2
28	1 1/16	X	2 3/4
32	1 1/8	X	2 3/4
36	1 5/16	X	2 3/4
40	1 5/16	X	2 3/4
44	1 5/16	X	3
For group 3 woods			
16	1 1/8	X	2
20	1 1/8	X	2 1/4
24	1 1/8	X	2 1/2
28	1 1/8	X	2 3/4
32	1 5/16	X	2 3/4
36	1 5/16	X	3
40	1 3/8	X	3
44	1 3/8	X	3 1/4
48-52	1 3/8	X	3 3/4
56-60	1 5/8	X	3 3/4

(iii) Ladders of this type shall have either straight sides slightly converging toward the top of each section, or shall have flaring sides at the bottom of the first (or bottom) section, with the top section having converging side rails to a width that shall be not less than 4 inches. Except for the top section, the minimum width between side rails shall be 11 inches.

(A) Adjacent sections shall be jointed by means of a groove in the bottom end of each rail of the upper of the two sections setting firmly over extensions outside the side rails, of the topmost rung of the next lower section and, at the same time, a groove in the top end of each rail of the lower of the two sections setting firmly over the bottom rung, inside the side rails, of the section next above.

(B) The distance between the two rungs (top-most rung of one section, bottom rung of the section next above) mentioned in WAC 296-24-78007 (3)(d)(iii)(A) shall not be less than 1 foot.

(C) The fit between rail grooves and rungs mentioned in WAC 296-24-78007 (3)(d)(iii)(A) shall be such as to provide a good fit without binding or unnecessary play.

(D) The grooved ends of the sections shall be reinforced with a metal plate of not less than 18-gauge (manufacturing standard) material properly secured thereto, and a rivet adjacent to the groove, extending through the depth of the rail, or the equivalent thereof.

(e) Trestle and extension trestle ladder.

(i) Trestle ladders, or extension sections or base sections of extension trestle ladders longer than 20 feet shall not be supplied.

(ii) The minimum dimensions of the side rails of the trestle ladder, or the base sections of the extension trestle ladder, shall be as follows for Group 2 or Group 3 woods.

Size of ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 16	1 5/16	2 3/4
Over 16 up to and including 20	1 5/16	3

The minimum dimensions of the side rails of the extension section of the extension trestle ladder, which shall have parallel sides, shall be as follows for Group 2 or Group 3 woods.

Size of ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 12	1 5/16	2 1/4
Over 12 up to and including 16	1 5/16	2 1/2
Over 16 up to and including 20	1 5/16	2 3/4

(iii) Trestle ladders and base sections of extension trestle ladders shall be so spread that when in an open position the spread of the trestle at the bottom, inside to inside, shall be at least 5 1/2 inches per foot of the length of the ladder.

(iv) The width between the side rails at the base of the trestle ladder and the base sections of the extension trestle ladder shall be at least 21 inches for all ladders and sections up to and including 6 feet. Longer lengths shall be increased at least 1 inch for each additional foot of length. The width between the side rails of the extension sections of the trestle ladder shall be not less than 12 inches.

(v) The tops of the side rails of the trestle ladder and of the base section of the extension trestle ladder shall be beveled or equivalent construction, and shall be provided further with a metal hinge to prevent spreading.

(vi) A metal spreader or locking device to hold the front and back sections in an open position, and to hold the extension section securely in the elevated position, shall be a component of all extension trestle ladders and all trestle ladders over 12 feet in length.

(vii) Rungs shall be parallel and level. On the trestle ladder, or on the base sections of the extension trestle ladder, rungs shall be spaced not less than 8 inches or more than 18 inches apart; on the extension section of the extension trestle ladder, rungs shall be spaced not less than 6 inches or more than 12 inches apart.

(viii) Rungs. Rungs shall be of white oak, ash, hickory, or wood of equivalent strength not less than 1 1/8 inches in diameter with at least a 7/8 inch diameter tenon. Where the distance between side rails is more than 28 inches rungs shall be supported in the center. Holes for wood rungs shall either extend through the side rails or be bored to give at least a 13/16 inch length of bearing to the rung tenon. In through-bored construction the rungs shall extend at least flush with the outside rail surface. Holes shall be located on the center line of the wide face of the side rails and shall be of such size as to be a tight fit for the rung. The shoulder of the rung shall be forced firmly against the side rails and the tenon secured in place with a nail, or the equivalent thereof, to prevent turning. A 3/16 inch diameter tie rod shall be placed under each rung.

(4) Special-purpose ladders. All special-purpose ladders shall comply with the appropriate requirements of WAC 296-24-78007 (1), (2) and (3), except as hereinafter modified in this subsection.

(a) Platform stepladder. A platform stepladder is a modification of a portable stepladder with a working platform provided near the top.

(i) Platform stepladders shall be made in accordance with the requirements of Type I stepladders or in accordance with the requirements for Type II stepladders.

(ii) The slope of the back section shall be such that a vertical from the back edge of the platform will strike the floor at a distance measured toward the front section of not less than 3 inches from the base of the back section.

(iii) The minimum width between side rails at the platform shall be not less than 15 inches.

(iv) The back legs and side rails shall extend at least 24 inches above the platform and shall be connected with a top member to form a three-sided rail, or equivalent construction shall be provided.

(v) Platforms shall be so constructed as to be capable of supporting a load of 200 pounds placed at any point on the platform.

(vi) A separate spreader may be omitted from platform ladders in which the height to the platform is 6 feet or less. If the spreader is omitted, the platform shall be so designed as to function as a spreader or locking device to hold the front and back sections securely in an open position, with the connection between side rails and back legs being through the metal parts of the platform. The wood parts of a combined wood and metal platform functioning as a spreader shall not be depended upon to contribute to the spreading or locking action.

(b) Painter's stepladder.

(i) Painter's stepladders longer than 12 feet shall not be supplied.

(ii) Painter's stepladders shall be made in accordance with the requirements of Type II stepladders except for the following:

(A) The top may be omitted.

(B) A rope spreader may be substituted for the metal spreader required in WAC 296-24-78007 (2)(a)(vi). The rope shall not be less than No. 6 sash cord or its equivalent.

(c) Mason's ladder. A mason's ladder is a special type of single ladder intended for use in heavy construction work.

(i) Mason's ladders longer than 40 feet shall not be supplied.

(ii) The minimum dimensions of the side rails when made of Group 2 or Group 3 woods and rungs (Group 1 woods) of the mason's ladder shall be as follows:

Length of ladder (feet)	Side rails		Diameter	
	Thickness (inches)	Depth (inches)	Rung (inches)	Tenon (inches)
Up to and including 22	1 5/8	3 5/8	1 3/8	1
Over 22 up to and including 40	1 5/8	4 1/2	1 3/8	1

(iii) The width between the side rails at the bottom rung, inside to inside, shall be not less than 12 inches for all ladders up to and including 10 feet. Such minimum widths shall be increased by at least one-fourth inch for each additional 2 feet of length.

(iv) Rungs shall be parallel and level and shall be spaced not less than 8 inches or more than 12 inches apart.

(5) Trolley and side-rolling ladders.

(a) Length. Trolley ladders and side-rolling ladders longer than 20 feet should not be supplied.

(b) Dimensions. The dimensions of the side rails shall not be less than the following for Group 2 or Group 3 woods.

Length of side rails (feet)	Thickness (inch)	Depth (inches)
Up to and including 10	3/4	3
Over 10 up to and including 20	3/4	3 3/4

The minimum thicknesses of side rails provide for the cutting of a groove not over one-eighth inch in depth and shall be increased when grooves of greater depth are used. Flat steps shall have the following minimum dimensions for Group 2 or Group 3 woods.

Length of side rails (feet)	Thickness (inch)	Depth (inches)
Up to and including 16	3/4	3
Over 16 up to and including 20	3/4	3 1/4
Over 20 up to and including 24	3/4	3 1/2
Over 24 up to and including 28	3/4	4

(c) Width. The width between the side rails, inside to inside, shall be at least 12 inches.

(d) Step attachment. Flat steps shall be inset in the side rails one-eighth inch and secured with at least two 6-d nails at each end or the equivalent thereof. They shall be reinforced with angle braces or a 3/16-inch steel rod.

(e) Locking device. Locking devices should be provided on all trolley ladders.

(f) Tracks.

(i) Tracks shall be wood, or metal (excluding cast iron), or a combination of these materials.

(ii) Tracks for the top end of ladders shall be fastened securely and shall be so constructed that the wheels will not jump the track. Tracks shall be so designed as to provide for all probable loads to which they will be subjected.

(iii) The supports shall be securely fastened by the lag screws, machine, hook, or toggle bolts, or their equivalent.

(iv) Track for side-rolling ladders shall be supported by metal or wood brackets securely screwed or bolted to shelving or other permanent structure at not over 3 feet.

(g) Wheel carriages.

(i) Wheel carriages shall be so designed as to provide for all loads to which they will be subjected. Two-point suspension should be used.

(ii) The wheel carriage for the top end of the ladder shall be securely fastened to the top of the ladder with metal brackets bolted either to the side rails or to the top step. When bolted to the top step, this step shall be secured to the side rails with metal braces in addition to those otherwise provided. The wheel carriage shall be so designed that a loose or broken wheel will not allow the ladder to drop or become detached from the track.

(iii) The wheel carriage for the bottom end of the ladder shall be securely fastened to the bottom of the ladder.

(iv) The wheels at the upper end of the ladder shall have minimum wheel base of 8 inches.

(v) When wheels are used at the bottom of the ladder, there shall be at least one wheel supporting each side rail.

(vi) Running gear for bottoms of both trolley and side-rolling ladders shall be so designed and constructed as to provide for any load to which they will be subjected.

(6) Jacob's ladders. Portable type ladders fabricated with side rails of rope, wire, chain, etc., and having rigid rungs. Care and use shall be as follows:

(a) Jacob's ladders shall not be used in lengths longer than 30 feet.

(b) Side rails shall be fabricated from rope, metal bars, wire, chain, or material of substantial construction.

(c) Rungs shall be evenly spaced from 12 to 16 inches apart and not less than 16 inches in length.

(d) Rungs shall be fabricated from wood, metal, or other substantial construction and be securely fastened to the side rails.

(e) The assembled ladder and its means of suspension shall be capable of supporting a minimum of 500 pounds with a safety factor of 5 to 1, unless the side rails are of manila rope which requires a safety factor of 10 to 1.

(f) Care and use of Jacob's ladders shall be in accordance with the applicable portions of WAC 296-24-78009.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-78007, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-78007, filed 5/9/73 and Order 73-4, § 296-24-78007, filed 5/7/73.]

WAC 296-24-78009 Care and use of ladders. (1) Care. To insure safety and serviceability the following precautions on the care of ladders shall be observed:

(a) Ladders shall be maintained in good condition at all times, the joint between the steps and side rails shall be tight, all hardware and fittings securely attached, and the moveable parts shall operate freely without binding or undue play.

(b) Metal bearings of locks, wheels, pulleys, etc., shall be frequently lubricated.

(c) Frayed or badly worn rope shall be replaced.

(d) Safety feet and other auxiliary equipment shall be kept in good condition to insure proper performance.

(e) Ladders should be stored in such a manner as to provide ease of access or inspection, and to prevent danger of accident when withdrawing a ladder for use.

(f) Wood ladders, when not in use, should be stored at a location where they will not be exposed to the elements, but where there is good ventilation. They shall not be stored near radiators, stoves, steam pipes, or other places subjected to excessive heat or dampness.

(g) Ladders stored in a horizontal position should be supported at a sufficient number of points to avoid sagging and permanent set.

(h) Ladders carried on vehicles should be adequately supported to avoid sagging and securely fastened in position to minimize chafing and the effects of road shocks.

(i) Ladders should be kept coated with a suitable protective material. The painting of ladders is satisfactory providing the ladders are carefully inspected prior to painting by competent and experienced inspectors acting for, and responsible to, the purchaser, and providing the ladders are not for resale.

(j) Ladders shall be inspected frequently and those which have developed defects shall be withdrawn from service for repair or destruction and tagged or marked as "dangerous, do not use."

(k) Rungs should be kept free of grease and oil.

(2) Use. The following safety precautions shall be observed in connection with the use of ladders:

(a) Portable rung and cleat ladders shall, where possible, be used at such a pitch that the horizontal distance from the top support to the foot of the ladder is one-quarter of the working length of the ladder (the length along the ladder between the foot and the top support). The ladder shall be so placed as to prevent slipping, or it shall be lashed, or held in position. Ladders shall not be used in a horizontal position as platforms, runways, or scaffolds.

(b) Ladders for which dimensions are specified should not be used by more than one person at a time nor with ladder jacks and scaffold planks where use by more than one person is anticipated. In such cases, specially designed ladders with larger dimensions of the parts should be procured.

(c) Portable ladders shall be so placed that the side rails have a secure footing. The top rest for portable rung and cleat ladders shall be reasonably rigid and shall have ample strength to support the applied load.

(d) Ladders shall not be placed in front of doors opening toward the ladder unless the door is blocked open, locked, or guarded.

(e) Ladders shall not be placed on boxes, barrels, or other unstable bases to obtain additional height.

(f) To support the top of the ladder at a window opening, a board should be attached across the back of the ladder, extending across the window and providing firm support against the building walls or window frames.

(g) When ascending or descending, the user should face the ladder.

(h) Ladders with broken or missing steps, rungs, or cleats, broken side rails, or other faulty equipment shall not be used; improvised repairs shall not be made.

(i) Short ladders shall not be spliced together to provide long sections.

(j) Ladders made by fastening cleats across a single rail shall not be used.

(k) Ladders shall not be used as guys, braces, or skids, or for other than their intended purposes.

(l) Tops of the ordinary types of stepladders shall not be used as steps.

(m) On two-section extension ladders the minimum overlap for the two sections in use shall be as follows:

Size of ladder (feet):	Overlap (feet)
Up to and including 36	3
Over 36 up to and including 48	4
Over 48 up to and including 60	5

(n) Portable rung ladders with reinforced rails (see WAC 296-24-78007 (3)(b)(iii) and (iv)) shall be used only with the metal reinforcement on the under side. Ladders of this type should be used with great care near electrical conductors, since the reinforcing itself is a good conductor.

(o) No ladder should be used to gain access to a roof unless the top of the ladder shall extend at least three feet above the point of support, at eave, gutter, or roof line.

(p) Adjustment of extension ladders should only be made by the user when standing at the base of the ladder, so that the user may observe when the locks are properly engaged. Adjustment of extension ladders from the top of the ladder (or any level over the locking device) is a dangerous practice and should not be attempted. Adjustment should not be made while the user is standing on the ladder.

(q) Middle and top sections of sectional or window cleaner's ladders should not be used for bottom section unless the user equips them with safety shoes.

(r) Extension ladders should always be erected so that the upper section is resting on the bottom section.

(s) The user should equip all portable rung ladders with nonslip bases when there is a hazard of slipping. Nonslip bases are not intended as a substitute for care in safety placing, lashing, or holding a ladder that is being used upon oily metal, concrete, or slippery surfaces.

(t) The bracing on the back legs of step ladders is designed solely for increasing stability and not for climbing.

(u) When service conditions warrant, hooks may be attached at or near the top of portable ladders to give added security.

(v) Stepladders shall not be used as single ladders.

(w) Separate ladders for ascending and descending shall be provided in building construction of more than two stories in height, or where traffic is heavy.

(x) Where one broad ladder is used, a center rail shall be provided, and each side plainly marked "up" and "down."

(y) Ladder rungs shall not be used to support more than one section of plank, and not more than two persons shall work on such section of planking at one and the same time. When two persons are working on the same section of plank, their work should be so arranged that their weight is equally distributed between two ladders as nearly as possible.

(z) When ladders are used of a length sufficient to possess a tendency to spring when weight is applied, they shall be provided with bracing to overcome same. This applies particularly to extension ladders.

(aa) Before climbing ladders, workers shall see that their shoes are free and clean of greasy or slippery substances.

(bb) When working from a stepladder over five feet high a worker shall not stand on a step higher than the third step from the top of the stepladder.

(cc) Ladders shall not be placed or used in elevator shafts or hoistways except where used by workers engaged in work within such shafts or hoistways, and then they shall be protected from objects falling from operations at higher elevations in or adjoining the shaft.

(dd) Workers shall not ascend or descend ladders while carrying tools or materials which will interfere with the free use of both hands.

(ee) Ladders shall pass the following test:

When tested as a simple beam with a support under each end and the center rung loaded with a two hundred pound load, the ladder must support this load for ten minutes without permanent set and without showing any sign of failure. The maximum deflection shall not be greater than shown in the enclosed table.

Lengths of extended ladder in feet	Distance of supports from ends, in inches	Total deflection, in inches
12	3	2 3/4
16	3	6 3/4
20	3	11 1/2
24	3	16 1/2

Lengths of extended ladder in feet	Distance of supports from ends, in inches	Total deflection, in inches
28	3	21 1/2
30	3	23 1/2
34	6	26
36	6	29
40	6	37
44	9	41

(ff) When working from a ladder over twenty-five feet from the ground or floor, the ladder shall be secured at both top and bottom.

(gg) No type of work shall be performed on a ladder over twenty-five feet from the ground or floor that requires the use of both hands to perform the work, unless a safety belt is worn and the safety lanyard is secured to the ladder.

(hh) Work such as sandblasting or spray painting, that requires wearing eye protection, respirators, and handling of pressure equipment, shall be limited to not over thirty feet from the ground or floor while working on a ladder.

TABLE D-5
CLASSIFICATION OF VARIOUS SPECIES OF WOOD ACCEPTABLE FOR USE IN LADDER

The species are listed alphabetically within each group. The position of any species within a group therefore bears no relation to its strength or acceptability.

Where ladders are desired for use under conditions favorable to decay, it is recommended that the heartwood of decay-resistant species be used, or that the wood be given a treatment with a wood preservative. The species having the most durable heartwood are marked with an asterisk (*), and these should be preferred where resistance to decay is required.

GROUP 1

The allowable fiber stress in bending for the species listed herein when used for side rails shall not exceed two thousand one hundred fifty pounds per square inch. These species may be substituted for Group 3 woods on the following basis: The dimensions may be not more than ten percent smaller for each cross-section dimension, or the thickness may remain unchanged, in which case the width may not be more than fifteen percent smaller if used edgewise (as in a rail) or twenty-five percent smaller if used flatwise (as in a tread).

White ash	Fraxinus americana, pennsylvanica, quadrangulata
Beech	Fagus grandifolia
Birch	Betula lenta, alleghaniensis, nigra (2)
Rock elm	Ulmus themasii
Hickory	Carya ovata, laciniosa, tomentosa, glabra
Locust*	Robinia pseudoacacia, Gleditsia triacanthos
Hard maple	Acer nigrum, saccharum
Red maple	Acer rubrum (3)
Red oak	Quercus velutina, marilandica, kelloggii, falcata var. pagodaefolia, laurifolia, ellipsoidalis, rubra, nuttallii, palustris, coccinea, shumardii, falcata, laevis, phellos
White oak	Quercus arizonica, douglasii, macrocarpa, lobata, prinus, muehlenbergii, emoryi, gambelii, oblonifolia, virginiana, garryana, lyrata, stellata, michauxii, bicolor, alba
Pecan	Carya illinoensis, cordiformis, myristicaeformis (4), aquatica (4)
Persimmon	Diospryros virginiana

GROUP 2

The allowable fiber stress in bending for the species listed herein when used for side rails shall not exceed two thousand pounds per square inch. These species may be substituted for Group 3 woods on the following basis: The dimensions may be not more than seven and one-half percent smaller for each cross-section dimension, or the thickness may remain unchanged, in which case the width may be not more than eleven percent smaller if used edgewise (as in a rail) or twenty percent smaller if used flatwise (as in a tread).

Douglas fir (coast region)	Pseudotsuga menziesii
Western larch	Larix occidentalis
Southern yellow pine	Pinus taeda, palustris, echinata, elliotii, rigida, virginiana

GROUP 3

The allowable fiber stress in bending for the species listed herein when used for side rails shall not exceed one thousand six hundred pounds per square inch.

Red alder	Alnus ruba, rhombifolia (2)
Oregon ash	Fraxinus latifolia
Pumpkin ash	Fraxinus profunda
Alaska cedar*	Chamaecyparis nootkatensis
Port Orford cedar*	Chamaecyparis lawsoniana
Cucumber	Magnolia acuminata
Cypress*	Taxodium distichum
Soft elm	Ulmus americana, rubra
Douglas fir (Rocky Mountain type)	Pseudotsuga menziesii var. glauca
Noble fir	Abies procera
Gum	Liquidambar styraciflua
West coast hemlock	Tsuga heterophylla
Magnolia	Magnolia grandiflora
Oregon maple	Acer macrophyllum
Norway pine	Pinus resinosa
Poplar	Liriodendron tulipifera
Redwood*	Sequoia sempervirens
Eastern spruce	Picea glauca, rubens
Sitka spruce	Picea sitchensis
Sycamore	Platanus occidentalis
Tamarack	Larix laricina
Tupelo	Nyssa aquatica, sylvatica

GROUP 4

The allowable fiber stress in bending for the species listed herein when used for side rails shall not exceed one thousand three hundred seventy-five pounds per square inch. These species may be substituted for Group 3 woods on the following basis: The dimensions shall be at least five percent greater for each cross-section dimension, or the thickness may remain unchanged, in which case the width shall be at least seven and one-half percent greater if used edgewise (as in a rail) or fifteen percent greater if used flatwise (as in a tread).

Aspen	Populus tremuloides, grandidentata
Basswood	Tilia americana, heterophylla (2)
Buckeye	Aesculus octandra, glabra (2)
Butternut	Juglanscinerea
Incense cedar*	Libocedrus decurrens
Western red cedar*	Thuja plicata
Cottonwood	Populus balsamifera, deltiodes, sargentii, heterophylla
White fir	Abies concolor, grandis, amabilis, lasiocarpa, magnifica
Hackberry	Celtis occidentalis, laevigata (2)

Eastern hemlock	Tsuga canadensis
Holly	Ilex opaca
Soft maple	Acer saccharinum
Lodgepole pine	Pinus contorta
Idaho white pine	Pinus monticola
Northern white pine	Pinus strobus
Ponderosa pine	Pinus ponderosa, pinus jeffreyi (Jeffrey pine)
Sugar pine	Pinus lambertiana
Engelmann spruce	Picea engelmannii

Note 1: The common and scientific names of species used conform to the American Lumber Standards nomenclature and in most cases to U.S. Department of Agriculture Handbook No. 41, "Check List of Native and Naturalized Trees of the United States (including Alaska), " by Elbert L. Little. These publications can be obtained from the U.S. Government Printing Office, North Capital and "H" Streets Northwest, Washington D.C. 20401.

Note 2: This species is commonly associated with others of the same genus under American Lumber Standards nomenclature, but no strength tests have been made on it at the Forest Products Laboratory.

Note 3: Included under soft maple in American Lumber Standards nomenclature.

Note 4: This species is not included under this common name in American Lumber Standards nomenclature, but strength data are available and it is accordingly included in this classification.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-78009, filed 7/20/94, effective 9/20/94; 88-11-021 (Order 88-04), § 296-24-78009, filed 5/11/88. Statutory Authority: RCW 49.17.040, 49.17.150 and 49.17.240. 79-08-115 (Order 79-9), § 296-24-78009, filed 7/31/79; Order 76-6, § 296-24-78009, filed 3/1/76; Order 73-5, § 296-24-78009, filed 5/9/73 and Order 73-4, § 296-24-78009, filed 5/7/73.]

WAC 296-24-795 Portable metal ladders.

[Order 73-5, § 296-24-795, filed 5/9/73 and Order 73-4, § 296-24-795, filed 5/7/73.]

WAC 296-24-79501 Terms. The following terms shall have the meaning ascribed in this section when referred to in WAC 296-24-79503 through 296-24-79507 unless the context requires otherwise.

(1) Ladder. A ladder is an appliance usually consisting of two side rails joined at regular intervals by crosspieces called steps, rungs, or cleats, on which a person may step in ascending or descending.

(2) Step ladder. A step ladder is a self-supporting portable ladder, nonadjustable in length, having flat steps and a hinged back. Its size is designated by the overall length of the ladder measured along the front edge of the side rails.

(3) Single ladder. A single ladder is a nonself-supporting portable ladder, nonadjustable in length, consisting of but one section. Its size is designated by the overall length of the side rail.

(4) Extension ladder. An extension ladder is a nonself-supporting portable ladder adjustable in length. It consists of two or more sections traveling in guides or brackets so arranged as to permit length adjustment. Its size is designated by the sum of the lengths of the sections measured along the side rails.

(5) Platform ladder. A self-supporting ladder of fixed size with a platform provided at the working level. The size is determined by the distance along the front rail from the platform to the base of the ladder.

(6) Sectional ladder. A sectional ladder is a nonself-supporting portable ladder, nonadjustable in length, consisting of two or more sections so constructed that the sections may be combined to function as a single ladder. Its size is designated by the overall length of the assembled sections.

(7) Trestle ladder. A trestle ladder is a self-supporting portable ladder, nonadjustable in length, consisting of two sections, hinged at the top to form equal angles with the base. The size is designated by the length of the side rails measured along the front edge.

(8) Extension trestle ladder. An extension trestle ladder is a self-supporting portable ladder, adjustable in length, consisting of a trestle ladder base and a vertically adjustable single ladder, with suitable means for locking the ladders together. The size is designated by the length of the trestle ladder base.

(9) Special-purpose ladder. A special-purpose ladder is a portable ladder which represents either a modification or a combination of design or construction features in one of the general-purpose types of ladders previously defined, in order to adapt the ladder to special or specific uses.

[Order 73-5, § 296-24-79501, filed 5/9/73 and Order 73-4, § 296-24-79501, filed 5/7/73.]

WAC 296-24-79503 Requirements. (1) General. Specific design and construction requirements are not part of this section because of the wide variety of metals and design possibilities. However, the design shall be such as to produce a ladder without structural defects or accident hazards such as sharp edges, burrs, etc. The metal selected shall be of sufficient strength to meet the test requirements, and shall be protected against corrosion unless inherently corrosion-resistant.

(a) Because of the varied conditions, and the wide variety of ladder uses, ladders may be designed with parallel side rails, with side rails varying uniformly in separation along the length (tapered), or with side rails flaring at the base to increase stability.

(b) The design of the side rails shall be such as to insure a product which will conform to the requirements of this section.

(c) The spacing of rungs or steps shall be on 12-inch centers.

(d) Rungs or steps to side rail connections should be so constructed as to insure rigidity as well as strength.

(e) Rungs and steps shall be corrugated, knurled, dimpled, coated with skid-resistant material, or otherwise treated to minimize the possibility of slipping.

(f) Hardware shall meet strength requirements of the ladder's component parts, and shall be of a material that is protected against corrosion unless inherently corrosion-resistant. Metals shall be so selected as to avoid excessive galvanic action.

(2) General specifications—Straight and extension ladders.

(a) The minimum width between side rails of a straight ladder or any section of an extension ladder shall be 12 inches.

(b) The length of single ladders or individual sections of ladders shall not exceed 30 feet. Two-section ladders shall not exceed 48 feet in length and over two-section ladders shall not exceed 60 feet in length.

(c) Based on the nominal length of the ladder, each section of a multisection ladder shall overlap the adjacent section by at least the number of feet stated in the following:

	Overlap (feet)
Nominal length of ladder (feet):	
Up to and including 36	3
Over 36, up to and including 48	4
Over 48, up to 60	5

(d) Extension ladders shall be equipped with positive stops which will insure the overlap specified in the table above.

(e) Extension ladders may be equipped with a rope and pulley which shall be securely attached to the ladder in such a manner as not to weaken either the rungs or the side rails. The pulley shall be not less than 1 1/4 inches in diameter.

(i) The rope used with the pulley shall be not less than five-sixteenths inch in diameter, having a minimum breaking strength of 560 pounds, and shall be of sufficient length for the purpose intended.

(3) General specifications—Step ladders.

(a) Step ladders shall be designed and constructed to give a minimum slope of 3 1/2 inches per foot of length of the front section, and a minimum slope of 2 inches per foot of length of the back section, except that special ladders designed for straight-in-wall work shall maintain at least 1 1/4-inch back slope per foot of length.

(b) The minimum width between the side rails at the top step shall be 12 inches. The width spread of the side rails shall increase a minimum of 1 inch per foot of length. The width of the step or tread shall not be less than 3 inches.

(c) The length of a stepladder is measured by the length of the front rail. To be classified as a standard length ladder, the measured length shall be within plus or minus one-half inch of the specified length. Stepladders shall not exceed 20 feet in length.

(d) The pail shelf shall be designed to fold completely within the ladder.

(e) The back section may be designed with either rungs or cross bracing as long as it meets the general and testing requirements.

(f) Steps shall be corrugated, knurled, dimpled, coated with skid-resistant materials, or otherwise treated to minimize the possibility of slipping.

(g) The bottoms of the four rails are to be supplied with insulating nonslip material.

(h) A metal spreader or locking device of sufficient size and strength to securely hold the front and back sections in the open position shall be a component of each stepladder. The spreader shall have all sharp points or edges covered or removed.

(4) General specifications—Trestles and extension trestle ladders.

(a) Trestle ladders or extension sections or base sections of extension trestle ladders shall be not more than 20 feet in length.

(b) The minimum distance between side rails of the trestle or extension section at the narrowest point shall not be less than 12 1/2 inches. The width spread shall not be less than 1 inch per foot of length of side rail.

(c) Spread of base when section is open shall not be less than 5 1/2 inches per foot of base section side rail.

(d) The extension locking device shall be designed to withstand all load tests.

(e) A metal spreader or locking device of sufficient size and strength to securely hold the front and back sections in the open position shall be a component of each trestle ladder. The spreader shall have all sharp points or edges covered or removed.

(5) General specifications—Platform ladders.

(a) The length of a platform ladder shall not exceed 20 feet. The length of a platform ladder shall be measured along the front rail from the floor to the platform.

(b) Minimum width between side rails at platform level shall be 14 inches. Width spread shall not be less than 1 inch per foot of rise.

(c) Slope of the front rail when unit is in open position shall not be less than 3 1/2 inches per foot of rise, and the back section shall have a minimum slope of 1 inch per foot of rise.

(d) The platform shall be at least 20 inches from the top of the ladder, and shall have an area of not less than 200 square inches nor more than 400 square inches.

(e) The back legs and side rails of a platform ladder shall extend at least 20 inches above the platform and shall be connected with the top member to form a three-sided top guard rail, or equivalent construction shall be provided.

(f) Spreaders shall be provided where the hinging apparatus is not designed to lock the unit open.

[Order 73-5, § 296-24-79503, filed 5/9/73 and Order 73-4, § 296-24-79503, filed 5/7/73.]

WAC 296-24-79505 Testing. (1) General. The following tests are intended to insure uniform testing methods for metal ladders.

(2) Straight and extension ladders.

(a) Ladder inclined strength is measured by placing the ladder unit in a flat, horizontal position, supported 6 inches from the ends of the side rails. When testing extensions, the unit is opened to the required overlap. A load of 200 pounds is applied equally to the side rails at the center of the unit by means of a beam. The ladder must withstand this test with no permanent deformation or other visible weakening of the structure. This test is based on a 200-pound person using the ladder, set at 75 1/2° to the ground. With the person on the center rung, the component of the 200-pound weight at right angles to the ladder will be 50 pounds. Applying the load factor of 4, the test weight becomes 200 pounds.

(b) Test unit need only be of sufficient length for test purposes and is to consist of the base and fly sections of an extension ladder with all the hardware or fittings attached. The ladder unit is placed in a vertical position and a downward load of 775 pounds equally distributed on the ends of the side rails of the upper portion of the test unit. The unit shall withstand this test with no permanent deformation or other visible weakening of the structure.

(c) A test unit of at least three rungs is to be used from the maximum width portion of the ladder. A load of 800

pounds shall be applied to a 3 1/2-inch wide block resting on the center of the widest rung. A rung of 14 inches or less in length shall withstand this test with no permanent deformation or other visible weakening of the structure. A rung of more than 14 inches in length may have a permanent deflection of not more than one-eighth inch provided the rung cross section is not deformed and there is no other visible weakening of the structure.

(d) With at least a three-rung test unit set in a vertical position, a load of 800 pounds shall be applied to a 3 1/2-inch wide block resting on the center rung as near to the side rail as possible. On removing the load, the unit must show no indication of failure in the fasteners attaching the rungs to the side rail.

(e) The rung shall be so secured to the side rail that a torque load of 360 inch-pounds applied to the rung at a side rail shall cause no visible relative motion between the rung and the side rail.

(f) With the ladder extended to its maximum working length, and resting horizontally on level supports located 6 inches from each end of the ladder, a weight of 50 pounds shall be suspended from one of the side rails midway between supports.

The deflection of the loaded rail, and the difference in deflection between the loaded and unloaded rails shall not exceed the values in Table D-6.

(g) Deflections in Table D-6 are to be determined by measuring, at the midpoint between supports, the distance from the outside edges of both rails to the floor or other reference surface both before and after the test load of 50 pounds is applied to one rail of the ladder. The test is to be repeated loading the other rail of the ladder. The angle (a) between the loaded and unloaded rails and the horizontal is to be calculated from the trigonometric equation:

$$\text{Sine a} = \frac{\text{Difference in deflection}}{\text{Ladder width}}$$

TABLE D-6
TABLE OF DEFLECTIONS

Length of ladder in feet	Maximum deflection of loaded rail in inches	Maximum difference in deflection between loaded and unloaded rails in degrees from horizontal
20	3.0	3.6
24	3.8	4.7
28	4.6	5.4
32	5.5	5.7
36	6.4	6.1
40	7.2	6.5
44	8.0	6.5
48	8.8	6.5

(3) Step, trestle, extension trestle, and platform ladders.

(a) Load test of the entire ladder is made with the ladder in an open position, and an 800-pound load applied to the center of the top. Resistance to side rail bending is tested by placing an 800-pound load on the center of the middle step. The strength of the step section is tested by applying an 800-pound load to a 3 1/2-inch-wide block resting on the center of the longest or bottom step. The pail shelf shall be so constructed as to support a distributed load of 50 pounds.

(i) In each test case, the unit must withstand the load without failure or permanent deformation.

(b) Set ladder in open position on a level floor. Place a 200-pound distributed load on the top step. The ladder is then subjected to a horizontal pulling load, applied at the top step, of 12-pound force to the side; 58-pound force to the front; 33-pound force to the back. In each test, all side rails must remain on the floor.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-79505, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-79505, filed 5/9/73 and Order 73-4, § 296-24-79505, filed 5/7/73.]

WAC 296-24-79507 Care and maintenance and use of ladders. (1) General. To get maximum serviceability, safety, and to eliminate unnecessary damage of equipment, good safe practices in the use and care of ladder equipment shall be employed by the users.

The following rules and regulations are essential to the life of the equipment and the safety of the user.

(2) Care of ladders.

(a) Ladders, shall be handled with care and not subject to unnecessary dropping, jarring, or misuse. (They are designed for a specific purpose or use; therefore, any variation from this use constitutes a mishandling of the equipment.)

(b) Ladders shall be stored on racks designed to protect the ladder when not in use. The racks shall have sufficient supporting points to prevent any possibility of excessive sagging.

(c) Ladders transported on vehicles shall be properly supported. Supporting points shall be of a softer material, such as hardwood or rubber-covered iron pipe, to minimize the chafing and effects of road shock. (Tying the ladder to each support point will greatly reduce damage due to road shock.)

(d) Ladders shall be maintained in good usable condition at all times. Hardware fittings and accessories shall be checked frequently and kept in good working condition.

(e) Ropes or cables shall be inspected frequently and replaced if defective.

(f) Complete ladder inspection shall be periodical. If a ladder is involved in any of the following, immediate inspection is necessary:

(i) If ladders tip over, inspect ladder for side rails dents or bends, or excessively dented rungs; check all rung-to-side-rail connections; check hardware connections; check rivets for shear.

(ii) If ladders are exposed to excessive heat as in the case of fire, the ladder should be inspected visually for damage and tested for deflection and strength characteristics. In doubtful cases, refer to manufacturer.

(iii) If ladders are to be subjected to certain acids or alkali solutions, a protective coating such as asphalt and varnish should be applied to the equipment.

(iv) If ladders are exposed to oil and grease, equipment should be cleaned of oil, grease, or slippery materials. This can easily be done with a solvent or steam cleaning.

(g) Ladders having defects are to be marked and taken out of service until repaired by either maintenance department or the manufacturer.

(3) Use of ladders.

(a) Portable nonself-supporting ladders shall be erected at a pitch of 75 1/2 degrees for maximum balance and strength. (A simple rule for setting up a ladder at the proper angle is to place the base a distance from the vertical wall equal to one-fourth the working length of the ladder.)

Note: Portable ladders are designed as a one-person working ladder based on a 200-pound load.

(b) Workers shall not ascend or descend ladders while carrying tools or materials which will interfere with the free use of both hands.

(c) The ladder base section must be placed with a secure footing. Safety shoes of good substantial design should be installed on all ladders. Where ladders with no safety shoes or spikes are used on hard, slick surfaces, a foot-ladder board should be employed.

(d) The top of the ladder must be placed with the two rails supported, unless equipped with a single support attachment. Such an attachment should be substantial and large enough to support the ladder under load.

(e) When ascending or descending, the climber must face the ladder.

(f) Ladders must not be tied or fastened together to provide longer sections. They must be equipped with the hardware fittings necessary if the manufacturer endorses extended uses.

(g) Ladders should not be used as a brace, skid, guy or gin pole, gangway, or for other uses than that for which they were intended, unless specifically recommended for use by the manufacturer.

(h) See chapter 296-24 WAC Part L for work practices to be used when work is performed on or near electrical circuits.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-79507, filed 7/20/94, effective 9/20/94; 91-24-017 (Order 91-07), § 296-24-79507, filed 11/22/91, effective 12/24/91; Order 76-6, § 296-24-79507, filed 3/1/76; Order 73-5, § 296-24-79507, filed 5/9/73 and Order 73-4, § 296-24-79507, filed 5/7/73.]

WAC 296-24-810 Fixed ladders.

[Order 73-5, § 296-24-810, filed 5/9/73 and Order 73-4, § 296-24-810, filed 5/7/73.]

WAC 296-24-81001 Definitions. The following terms shall have the meaning ascribed in this section when referred to in WAC 296-24-81003 through 296-24-81007 unless the context requires otherwise.

(1) Ladder. A ladder is an appliance usually consisting of two side rails joined at regular intervals by crosspieces called steps, rungs, or cleats, on which a person may step in ascending or descending.

(2) Fixed ladder. A fixed ladder is a ladder permanently attached to a structure, building, or equipment.

(3) Individual-rung ladder. An individual-rung ladder is a fixed ladder each rung of which is individually attached to a structure, building, or equipment.

(4) Rail ladder. A rail ladder is a fixed ladder consisting of side rails joined at regular intervals by rungs or cleats and fastened in full length or in sections to a building, structure, or equipment.

(5) Railings. A railing is any one or a combination of those railings constructed in accordance with WAC 296-24-75003 through 296-24-75011. A standard railing is a vertical barrier erected along exposed edges of floor openings, wall openings, ramps, platforms, and runways to prevent falls of persons.

(6) Pitch. Pitch is the included angle between the horizontal and the ladder, measured on the opposite side of the ladder from the climbing side.

(7) Fastenings. A fastening is a device to attach a ladder to a structure, building, or equipment.

(8) Rungs. Rungs are ladder crosspieces of circular or oval cross-section on which a person may step in ascending or descending.

(9) Cleats. Cleats are ladder crosspieces of rectangular cross-section placed on edge on which a person may step in ascending or descending.

(10) Steps. Steps are the flat crosspieces of a ladder on which a person may step in ascending or descending.

(11) Cage. A cage is a guard that may be referred to as a cage or basket guard which is an enclosure that is fastened to the side rails of the fixed ladder or to the structure to encircle the climbing space of the ladder for the safety of the person who must climb the ladder.

(12) Well. A well is a permanent complete enclosure around a fixed ladder, which is attached to the walls of the well. Proper clearances for a well will give the person who must climb the ladder the same protection as a cage.

(13) Ladder safety device. A ladder safety device is any device, other than a cage or well, designed to eliminate or reduce the possibility of accidental falls and which may incorporate such features as life belts, friction brakes, and sliding attachments.

(14) Grab bars. Grab bars are individual handholds placed adjacent to or as an extension above ladders for the purpose of providing access beyond the limits of the ladder.

(15) Through ladder. A through ladder is one from which a person getting off at the top must step through the ladder in order to reach the landing.

(16) Side-step ladder. A side-step ladder is one from which a person getting off at the top must step sideways from the ladder in order to reach the landing.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-81001, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-81001, filed 5/9/73 and Order 73-4, § 296-24-81001, filed 5/7/73.]

WAC 296-24-81003 Design requirements. (1) Design considerations. All ladders, appurtenances, and fastenings shall be designed to meet the following load requirements:

(a) The minimum design live load shall be a single concentrated load of 200 pounds.

(b) The number and position of additional concentrated live-load units of 200 pounds each as determined from anticipated usage of the ladder shall be considered in the design.

(c) The live loads imposed by persons occupying the ladder shall be considered to be concentrated at such points as will cause the maximum stress in the structural member being considered.

(d) The weight of the ladder and attached appurtenances together with the live load shall be considered in the design of rails and fastenings.

(2) Design stresses.

(a) Design stresses for wood components of ladders shall not exceed those specified in WAC 296-24-78001 through 296-24-79507. All wood parts of fixed ladders shall meet the requirements of WAC 296-24-78005.

(b) For fixed ladders consisting of wood side rails and wood rungs or cleats, used at a pitch in the range 75 degrees to 90 degrees, and intended for use by no more than one person per section, single ladders as described in WAC 296-24-78007 (3)(b) are acceptable.

(3) Fixed embedded steps. Individual fixed steps used for access or egress, embedded in the walls of risers or the conical top sections of manholes shall be safe, well constructed, and installed in accordance with good engineering practices. Appurtenances penetrating the manhole walls are prohibited.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-81003, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-81003, filed 5/9/73 and Order 73-4, § 296-24-81003, filed 5/7/73.]

WAC 296-24-81005 Specific features. (1) Rungs and cleats.

(a) All rungs shall have a minimum diameter of three-fourths inch for metal ladders, except as covered in subsection (7)(a) of this section, and a minimum diameter of 1 1/8 inches for wood ladders.

(b) The distance between rungs, cleats, and steps shall not exceed 12 inches and shall be uniform throughout the length of the ladder.

(c) The minimum clear length of rungs or cleats shall be 16 inches.

(d) Rungs, cleats, and steps shall be free of splinters, sharp edges, burrs, or projections which may be a hazard.

(e) The rungs of an individual-rung ladder shall be so designed that the foot cannot slide off the end (A suggested design is shown in Figure D-1, at the end of this section) or be treated with anti-slip type paint or treatment.

(f) Such rungs or steps installed in the walls of risers or conical top sections of manholes shall be uniformly spaced from 12 inches to 16 1/2 inches apart and be a minimum of 10 inches in length.

(i) The manhole rungs or steps shall have a minimum of 4 inches of clearance between the rung or step and the wall.

(ii) The manhole rung or step shall be capable of sustaining a single concentrated load of 300 pounds.

(2) Side rails. Side rails which might be used as a climbing aid shall be of such cross sections as to afford adequate gripping surface without sharp edges, splinters, or burrs.

(3) Fastenings. Fastenings shall be an integral part of fixed ladder design.

(4) Splices. All splices made by whatever means shall meet design requirements as noted in WAC 296-24-81003(1). All splices and connections shall have smooth transition with original members and with no sharp or extensive projections.

(a) When fixed ladders are spliced the splice plates shall be the same depth as side rails.

(b) The length of the splice plates shall be four times the depth of the side rail. They shall be of metal not less than one-fourth of an inch in thickness and chamfered on all exposed edges.

(c) Splice plates shall be secured by bolts or rivets with the heads countersunk or of the button type.

(d) The heads shall be on the outside of the rail.

(e) The bolts or rivets shall be not less than one-half inch nor more than five-eighths inch in diameter.

(f) The bolt ends shall be chamfered with only the chamfered end extending beyond the nut.

(g) Both ends of the rivet shall be button shape.

(h) Washers shall be placed under the nuts and rivet ends on wood side rails.

(i) There shall be a minimum of three bolts or rivets on each side of the joint for metal side rails and a minimum of four bolts or rivets for wood side rails.

(j) Bolts and rivets in both metal and wood side rails shall be staggered in position.

(5) Electrolytic action. Adequate means shall be employed to protect disimilar metals from electrolytic action when such metals are joined.

(6) Welding. All welding shall be in accordance with the "Code for Welding in Building Construction" (AWS D1.0-1966).

(7) Protection from deterioration.

(a) Metal ladders and appurtenances shall be painted or otherwise treated to resist corrosion and rusting when location demands. Ladders formed by individual metal rungs imbedded in concrete, which serve as access to pits and to other areas under floors, are frequently located in an atmosphere that causes corrosion and rusting. To increase rung life in such atmosphere, individual metal rungs shall have a minimum diameter of 1 inch or shall be painted or otherwise treated to resist corrosion and rusting.

(b) Wood ladders, when used under conditions where decay may occur, shall be treated with a nonirritating preservative, and the details shall be such as to prevent or minimize the accumulation of water on wood parts.

(c) When different types of materials are used in the construction of a ladder, the materials used shall be so treated as to have no deleterious effect one upon the other.

[Statutory Authority: Chapter 49.17 RCW. 90-03-029 (Order 89-20), § 296-24-81005, filed 1/11/90, effective 2/26/90; Order 73-5, § 296-24-81005, filed 5/9/73 and Order 73-4, § 296-24-81005, filed 5/7/73.]

WAC 296-24-81007 Clearance. (1) Climbing side. On fixed ladders, the perpendicular distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be 36 inches for a pitch of 76 degrees, and 30 inches for a pitch of 90 degrees (Fig. D-2 of this section), with minimum clearances for intermediate pitches

varying between these two limits in proportion to the slope, except as provided in (3) and (5) of this section.

(2) Ladders without cages or wells. A clear width of at least 15 inches shall be provided each way from the centerline of the ladder in the climbing space, except when cages or wells are necessary.

(3) Ladders with cages or baskets. Ladders equipped with cage or basket are excepted from the provisions of (1) and (2) of this section, but shall conform to the provisions of WAC 296-24-81009 (1)(e). Fixed ladders in smooth-walled wells are excepted from the provisions of (1) of this section, but shall conform to the provisions of WAC 296-24-81009 (1)(f).

(4) Clearance in back of ladder. The distance from the centerline of rungs, cleats, or steps to the nearest permanent object in back of the ladder shall be not less than 7 inches, except that when unavoidable obstructions are encountered, minimum clearances as shown in Figure D-3 shall be provided.

(5) Clearance in back of grab bar. The distance from the centerline of the grab bar to the nearest permanent object in back of the grab bars shall be not less than 4 inches. Grab bars shall not protrude on the climbing side beyond the rungs of the ladder which they serve.

(6) Step-across distance. The step-across distance from the nearest edge of ladder to the nearest edge of equipment or structure shall be not more than 12 inches, or less than 2 1/2 inches (Fig. D-4).

(7) Hatch cover. Counterweighted hatch covers shall open a minimum of 60 degrees from the horizontal. The distance from the centerline of rungs or cleats to the edge of the hatch opening on the climbing side shall be not less than 24 inches for offset wells or 30 inches for straight wells. There shall be no protruding potential hazards within 24 inches of the centerline of rungs or cleats; any such hazards within 30 inches of the centerline of the rungs or cleats shall be fitted with deflector plates placed at an angle of 60 degrees from the horizontal as indicated in Figure D-5.The relationship of a fixed ladder to an acceptable counterweighted hatch cover is illustrated in Figure D-6.

[Order 73-5, § 296-24-81007, filed 5/9/73 and Order 73-4, § 296-24-81007, filed 5/7/73.]

WAC 296-24-81009 Special requirements. (1) Cages or wells.

(a) Cages or wells (except on chimney ladders) shall be built, as shown on the applicable drawings, covered in detail in Figures D-7, D-8, and D-9, or of equivalent construction.

(b) Cages or wells (except as provided in (5) of this section) conforming to the dimensions shown in Figures D-7, D-8, and D-9 shall be provided on ladders of more than 20 feet to a maximum unbroken length of 30 feet.

(c) Cages shall extend a minimum of 42 inches above the top of landing, unless other acceptable protection is provided.

(d) Cages shall extend down the ladder to a point not less than 7 feet nor more than 8 feet above the base of the ladder, with bottom flared not less than 4 inches, or portion of cage opposite ladder shall be carried to the base.

(e) Cages shall not extend less than 27 nor more than 28 inches from the centerline of the rungs of the ladder. Cage shall not be less than 27 inches in width. The inside shall be clear of projections. Vertical bars shall be located at a maximum spacing of 40 degrees around the circumference of the cage; this will give a maximum spacing of approximately 9 1/2 inches, center to center.

(f) Ladder wells shall have a clear width of at least 15 inches measured each way from the centerline of the ladder. Smooth-walled wells shall be a minimum of 27 inches from the centerline of rungs to the well wall on the climbing side of the ladder. Where other obstructions on the climbing side of the ladder exist, there shall be a minimum of 30 inches from the centerline of the rungs.

(2) Landing platforms. When ladders are used to ascend to heights exceeding 20 feet (except on chimneys), landing platforms shall be provided for each 30 feet of height or fraction thereof, except that, where no cage, well, or ladder safety device is provided, landing platforms shall be provided for each 20 feet of height or fraction thereof. Each ladder section shall be offset from adjacent sections. Where installation conditions (even for a short, unbroken length) require that adjacent sections be offset, landing platforms shall be provided at each offset.

(a) Where a person has to step a distance greater than 12 inches from the centerline of the rung of a ladder to the nearest edge of structure or equipment, a landing platform shall be provided. The minimum step-across distance shall be 2 1/2 inches.

(b) All landing platforms shall be equipped with standard railings and toeboards, so arranged as to give safe access to the ladder. Platforms shall be not less than 24 inches in width and 30 inches in length.

(c) One rung of any section of ladder shall be located at the level of the landing laterally served by the ladder. Where access to the landing is through the ladder, the same rung spacing as used on the ladder shall be used from the landing platform to the first rung below the landing.

(3) Ladder extensions. The side rails of through or sidestep ladder extensions shall extend 3 1/2 feet above parapets and landings. For through ladder extensions, the rungs shall be omitted from the extension and shall have not less than 18 nor more than 24 inches clearance between rails. For sidestep or offset fixed ladder sections, at landings, the side rails and rungs shall be carried to the next regular rung beyond or above the 3 1/2 feet minimum (Fig. D-10).

(4) Grab bars. Grab bars shall be spaced by a continuation of the rung spacing when they are located in the horizontal position. Vertical grab bars shall have the same spacing as the ladder side rails. Grab-bar diameters shall be the equivalent of the round-rung diameters.

(5) Ladder safety devices. Ladder safety devices may be used on tower, water tank, and chimney ladders over 20 feet in unbroken length in lieu of cage protection. No landing platform is required in these cases. All ladder safety devices such as those that incorporate lifebelts, friction brakes, and sliding attachments shall meet the design requirements of the ladders which they serve.

[Statutory Authority: Chapter 49.17 RCW. 94-15-096 (Order 94-07), § 296-24-81009, filed 7/20/94, effective 9/20/94; Order 73-5, § 296-24-81009, filed 5/9/73 and Order 73-4, § 296-24-81009, filed 5/7/73.]