

TRANSMITTAL OF RULES ADOPTED

FROM: Department of Agriculture  
(Name of Agency)

TO: CODE REVISER  
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)  
Olympia 98501

The enclosed Permanent rules  , being order No. 1103  
Emergency rules

relating to (Name of rules or description of subject matter)

AMD WAC 16-659-010 Sale of Liquefied Petroleum Gas  
Permtng the filling of containers and cylinders of less than 200 pounds water capacity by means of meter measure providing the devices meet specifications and tolerances for commercial devices.

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 2204 ① filed with the code reviser on 12/2/68 ② were regularly adopted as permanent rules of this agency at Olympia on 12/23/68 and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW. The effective date of such rules shall be 2/1/69 ③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of these rules is necessary for the preservation of the public health, safety, or general welfare and that observance of the requirements of notice and opportunity to present views on the proposed action would be contrary to the public interest, were regularly adopted as emergency rules of this agency at \_\_\_\_\_ on \_\_\_\_\_ and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW.

Dated this 23rd. day of December 19 68

STATE OF WASHINGTON  
FILED  
DEC 23 1968  
CODE REVISER'S OFFICE  
KET-2215 FILE # 30

Department of Agriculture  
(AGENCY)  
By Donald W. Moos  
Director of Agriculture  
Title

- ① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
- ② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
- ③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING; RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE  
OLYMPIA

ORDER NO. 1103  
Effective February 1, 1969  
(Superseding Order No. 1036)

WEIGHTS AND MEASURES--LIQUEFIED PETROLEUM GAS ch. 16-659

AMD WAC 16-659-001 PROMULGATION. I, Donald W. Moos, director of agriculture of the State of Washington, by virtue of the authority vested in me under Chapter 19.93 RCW, after due notice as provided under Chapter 34.04 and 42.32 RCW, and the public hearing held in Olympia, Washington, on December 17, 1968, do hereby promulgate the following section relating to the sale of Liquefied Petroleum Gas. This promulgation applies to WAC 16-659-010 .

AMD WAC 16-659-010 LIQUEFIED PETROLEUM GAS. (1) Liquefied Petroleum Gas shall be sold or exposed for sale at retail only by avoirdupois weight, specified in pounds; liquid measure, specified in gallons; or vapor, specified in cubic feet.

(2) When sold by weight or by liquid measure or in units of cubic feet, it shall be dispensed and sold only by the use of such devices that conform to the specifications, tolerances, rules and regulations set forth in National Bureau of Standards Handbook 44, 3rd. Edition. (See Chapter 16-662 WAC.)

(3) Liquefied Petroleum Gas sold or delivered to a consumer by liquid measure shall be corrected to a temperature of 60° F with an automatic correction device, or the quantity delivered shall be corrected to a temperature of 60° F in accordance with the volume correction factor table for liquefied petroleum gases set forth in subsection (6) of this chapter. When the delivery is made through a meter automatically corrected for temperature, the retail sales ticket shall show the meter adjusted gallons delivered and state that the temperature correction was made automatically. When the delivery is made through a meter not corrected automatically, the retail sales ticket shall show the metered gallons delivered and the temperature of the liquid at the time of delivery, the volume correction factor and the corrected gallonage: Provided that this section shall be applicable to new equipment, equipment that has changed ownership or equipment used in the state of Washington for the first time after the effective date of this section. This subsection shall be applicable to all other equipment and with respect to the manual issuances of sales tickets as of January 1, 1969. This subsection shall not apply to unit sales or deliveries made direct to fuel tanks on trucks and automobiles operated on highways, or to containers of less than 200 pound water capacity.

(4) If a device is equipped with an automatic temperature compensator, this shall be connected, operable, and used at all times. Such automatic temperature compensator may not be removed, nor may a compensated device be replaced with an uncompensated device, without the written approval of the weights and measures authority having jurisdiction over the device. Nothing in this subsection shall prohibit the removal of a meter or temperature compensator for repair providing notice of such removal for repair shall be given the Weights and Measures office in Olympia within three (3) working days.

(5) (a) Containers, including I.C.C. cylinders, with water capacity less than 200 pounds, shall be charged and sold by weight or by metered measure, except containers excluded by law or regulation. The tare weight of the container and the net



weight of the contents shall be plainly and conspicuously marked on the outside of the container or on a label firmly attached thereto. This subsection shall not be construed to require the net weight to be labeled on a container that is being filled at the time of sale. Tare weight shall not be construed to include the valve protecting cap which shall be removed when weighing. When liquefied petroleum gas is sold by the package or container, either by refilling of a container or an exchange of containers, the vendor shall give the purchaser full credit for the unused liquid remaining in the container being exchanged or refilled.

(b) A delivery ticket shall be issued at the time of filling and shall set forth the exact amount of liquefied petroleum gas dispensed in terms of weight or if converted to gallons the weight factor used in such conversion. Any service charge shall be shown separately on the delivery ticket but may be included in the total price.

(c) When sold by weight, the tare weight, any unused portion and/or the net weight shall be determined only on devices that are adequately protected from wind and weather conditions that will assure normal accuracy.

(6) Volume Correction Factor Table.

Specific Gravity at 60 F/60 F


Degrees Fahr	Propane									iso- Butane		N- Butane	
	0.500	0.5079	0.510	0.520	0.530	0.540	0.550	0.560	0.5631	0.570	0.580	0.5844	
	VOLUME CORRECTION FACTORS												
-15	1.112	1.109	1.107	1.102	1.097	1.093	1.089	1.084	1.083	1.080	1.077	1.075	
-10	1.105	1.102	1.100	1.095	1.091	1.087	1.083	1.079	1.078	1.075	1.072	1.071	
- 5	1.098	1.094	1.094	1.089	1.085	1.081	1.077	1.074	1.073	1.070	1.067	1.066	
0	1.092	1.088	1.088	1.084	1.080	1.076	1.073	1.069	1.068	1.066	1.063	1.062	
2	1.089	1.086	1.085	1.081	1.077	1.074	1.070	1.067	1.066	1.064	1.061	1.060	
4	1.086	1.083	1.082	1.079	1.075	1.071	1.068	1.065	1.064	1.062	1.059	1.058	
6	1.084	1.080	1.080	1.076	1.072	1.069	1.065	1.062	1.061	1.059	1.057	1.055	
8	1.081	1.078	1.077	1.074	1.070	1.066	1.063	1.060	1.059	1.057	1.055	1.053	
10	1.078	1.075	1.074	1.071	1.067	1.064	1.061	1.058	1.057	1.055	1.053	1.051	
12	1.075	1.072	1.071	1.068	1.064	1.061	1.059	1.056	1.055	1.053	1.051	1.049	
14	1.072	1.070	1.069	1.066	1.062	1.059	1.056	1.053	1.053	1.051	1.049	1.047	
16	1.070	1.067	1.066	1.063	1.060	1.056	1.054	1.051	1.050	1.048	1.046	1.045	
18	1.067	1.065	1.064	1.061	1.057	1.054	1.051	1.049	1.048	1.046	1.044	1.043	
20	1.064	1.062	1.061	1.058	1.054	1.051	1.049	1.046	1.046	1.044	1.042	1.041	
22	1.061	1.059	1.058	1.055	1.052	1.049	1.046	1.044	1.044	1.042	1.040	1.040	
24	1.058	1.056	1.055	1.052	1.049	1.046	1.044	1.042	1.042	1.040	1.038	1.037	
26	1.055	1.053	1.052	1.049	1.047	1.044	1.042	1.039	1.039	1.037	1.035	1.036	
28	1.052	1.050	1.049	1.047	1.044	1.041	1.039	1.037	1.037	1.035	1.034	1.034	
30	1.049	1.047	1.046	1.044	1.041	1.039	1.037	1.035	1.035	1.033	1.032	1.032	
32	1.046	1.044	1.043	1.041	1.038	1.036	1.035	1.033	1.033	1.031	1.030	1.030	
34	1.043	1.041	1.040	1.038	1.036	1.034	1.032	1.031	1.030	1.029	1.028	1.028	
36	1.039	1.038	1.037	1.035	1.033	1.031	1.030	1.028	1.028	1.027	1.025	1.025	
38	1.036	1.035	1.034	1.032	1.031	1.029	1.027	1.026	1.025	1.025	1.023	1.023	
40	1.033	1.032	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.023	1.021	1.021	
42	1.030	1.029	1.028	1.026	1.025	1.023	1.023	1.022	1.021	1.021	1.019	1.019	
44	1.027	1.026	1.025	1.023	1.022	1.021	1.020	1.019	1.019	1.018	1.017	1.017	
46	1.023	1.022	1.022	1.021	1.020	1.018	1.018	1.017	1.016	1.016	1.015	1.015	
48	1.020	1.019	1.019	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.013	
50	1.017	1.016	1.016	1.015	1.014	1.013	1.013	1.012	1.012	1.011	1.011	1.011	
52	1.014	1.013	1.012	1.012	1.011	1.010	1.010	1.009	1.009	1.009	1.009	1.009	
54	1.010	1.010	1.009	1.009	1.008	1.007	1.007	1.007	1.007	1.007	1.006	1.006	
56	1.007	1.007	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	
58	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002	
60	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
62	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.998	0.998	0.998	0.998	0.998	
64	0.993	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.996	0.996	

VOLUME CORRECTION FACTOR TABLE (continued)

Degrees Fahr	Propane											N- Butane 0.5844
	0.500	0.5079	0.510	0.520	0.530	0.540	0.550	0.560	iso- Butane 0.5631	0.570	0.580	
66	0.991	0.990	0.990	0.990	0.991	0.992	0.992	0.993	0.993	0.993	0.993	0.993
68	0.986	0.986	0.987	0.987	0.986	0.989	0.990	0.990	0.990	0.990	0.991	0.991
70	0.983	0.983	0.984	0.984	0.985	0.986	0.987	0.988	0.988	0.988	0.989	0.989
72	0.979	0.980	0.981	0.981	0.982	0.983	0.984	0.985	0.986	0.986	0.987	0.987
74	0.976	0.975	0.977	0.978	0.980	0.980	0.982	0.983	0.983	0.984	0.985	0.985
76	0.972	0.973	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.981	0.982	0.982
78	0.969	0.970	0.970	0.972	0.974	0.975	0.977	0.978	0.978	0.979	0.980	0.980
80	0.965	0.966	0.967	0.969	0.971	0.972	0.974	0.975	0.976	0.977	0.978	0.978
82	0.961	0.963	0.963	0.966	0.968	0.969	0.971	0.972	0.973	0.974	0.976	0.976
84	0.957	0.959	0.960	0.962	0.965	0.966	0.968	0.970	0.971	0.972	0.974	0.974
86	0.954	0.956	0.956	0.959	0.961	0.964	0.966	0.967	0.968	0.969	0.972	0.972
88	0.950	0.952	0.953	0.955	0.958	0.961	0.963	0.965	0.966	0.967	0.969	0.969
90	0.946	0.949	0.949	0.952	0.955	0.958	0.960	0.962	0.963	0.964	0.967	0.967
92	0.942	0.945	0.946	0.949	0.952	0.955	0.957	0.959	0.960	0.962	0.964	0.965
94	0.938	0.941	0.942	0.946	0.949	0.952	0.954	0.957	0.958	0.959	0.962	0.962
96	0.935	0.938	0.939	0.942	0.946	0.949	0.952	0.954	0.955	0.957	0.959	0.960
98	0.931	0.934	0.935	0.939	0.943	0.946	0.949	0.952	0.953	0.954	0.957	0.957
100	0.927	0.930	0.932	0.936	0.940	0.943	0.946	0.949	0.950	0.952	0.954	0.955
105	0.918	0.920	0.923	0.927	0.932	0.935	0.939	0.943	0.943	0.946	0.949	0.949
110	0.907	0.911	0.913	0.918	0.923	0.927	0.932	0.936	0.937	0.939	0.943	0.944
115	0.897	0.901	0.904	0.910	0.915	0.920	0.925	0.930	0.930	0.933	0.937	0.938
120	0.887	0.892	0.894	0.900	0.907	0.912	0.918	0.923	0.924	0.927	0.931	0.932

To convert from measured volume at another temperature to net volume at 60° F: measure the volume and temperature. Determine the gravity at 60° F. Refer to the column corresponding to this gravity and read the volume conversion factor opposite the observed temperature. Multiply the observed volume by this factor to obtain the volume at 60° F.

I hereby certify that the foregoing is a true and correct copy of the regulation promulgated by the Department of Agriculture.

  
 DONALD W. MOOS  
 Director of Agriculture  
 State of Washington

Signed at Olympia, Washington

Date: December 23, 1968