

FORM OF ORDER AND TRANSMITTAL BY BOARD, COMMISSION, OR COUNCIL

State of Washington

Washington State Building Code Council
(name of governing body)

(agency name, if applicable)

Resolution No. _____

Administrative Order No. 88-11A

(1) Be it resolved by the Washington State Building Code Council
acting at Angle Lake Fire Hall, 2929 South 200th Street, Seattle, WA
(place)

that it does adopt the annexed rules relating to:

Correction of errors in Chapter 51-16 WAC filed as WSR 88-24-018 on
December 1, 1988

*July 1, 1988, BB
and October 5, 1988. BB*

(2) ALTERNATIVE A. Use only for Adoption of Permanent Rules.

This action is taken pursuant to Notice No. WSR 88-14-077 and WSR 88-20-070
filed with the code reviser on May 12, 1989. These rules shall take effect:

- thirty days after they are filed with the code reviser pursuant to RCW 34.04.040(2).
- at a later date, such date being July 1, 1989.

(2) ALTERNATIVE B. Use only for Adoption of Emergency Rules.

We, _____, find that
an emergency exists and that this order 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 public interest. A statement of the facts constituting the emergency is:

These rules are therefore adopted as emergency rules to take effect upon filing with the code reviser.

(3) Pursuant to the requirements of RCW 34.04.026¹ that "every agency shall incorporate the most specific, but
in no case omit all, of the following language alternatives when adopting or amending rules" fill in statement (a), (b),
or (c) as appropriate:

- (a) This rule is promulgated pursuant to RCW _____
and is intended to administratively implement that statute.
- (b) This rule is promulgated pursuant to RCW 19.27.074
which directs that the
Washington State Building Code Council

(agency)

has authority to implement the provisions of
Chapter 19.27 RCW

(name of act or RCW citation)

- (c) This rule is promulgated under the general rule-making authority of the

(agency)

as authorized in RCW _____

(4) The undersigned hereby declares that the agency has complied with the provisions of the Open Public
Meetings Act (chapter 42.30 RCW), the Administrative Procedure Act (chapter 34.04 RCW), and the State Register
Act (chapter 34.08 RCW) in the adoption of these rules.

(5) This order, after being first recorded in the order register of this governing body, is herewith transmitted to
the Code Reviser for filing pursuant to chapter 34.04 RCW and chapter 1-12 WAC.

APPROVED AND ADOPTED May 12, 19 89

STATE OF WASHINGTON
FILED

MAY 23 1989

By 

Chair, State Building Code Council
Title

CODE REVISER'S OFFICE
WSR 89-11-081

AMENDATORY SECTION (Amending Order 88-11, filed 12/1/88, effective 7/1/89)

WAC 51-16-030 UNIFORM BUILDING CODE AND UNIFORM BUILDING CODE STANDARDS. The 1988 edition of the Uniform Building Code, and the 1988 edition of the Uniform Building Code Standards as published by the International Conference of Building Officials is hereby adopted by reference with the following additions, deletions and exceptions:

(1) The following definition shall be added to section 420, chapter 4 of the Uniform Building Code:

SINGLE FAMILY RESIDENTIAL BUILDING is a dwelling containing only one dwelling unit.

(2) The following definition shall be added to section 414, chapter 4 of the Uniform Building Code:

MULTIFAMILY RESIDENTIAL BUILDING is a common wall dwelling or apartment house that consists of four or fewer dwelling units that do not exceed two stories in height and that are less than five thousand square feet in total area.

(3) Chapter 9 of the 1988 edition of the Uniform Building Code is hereby not adopted and chapter 9 of the 1985 edition of the Uniform Building Code is hereby adopted in its place.

The changes made between the 1985 edition of the Uniform Building Code and the 1988 edition of the Uniform Building Code for the purposes of integrating chapter 9 of the Uniform Building Code into other sections of the 1988 edition of the Uniform Building Code are also not adopted.

The sections and tables listed below contain changes to the 1988 edition of the Uniform Building Code made for this purpose.

Definitions:

Sec. 404, Control Area (added) page 22
 Sec. 404, Corrosive (added) page 22
 Sec. 406, Emergency Control Station
 (changed) page 23
 Sec. 409, Handling (added) page 25
 Sec. 409, Health Hazard (added) page
 25
 Sec. 409, Highly Toxic Material (added)
 page 25
 Sec. 410, Irritant (added) page 25
 Sec. 413, Liquid Storage Room
 (changed) page 27
 Sec. 413, Liquid Storage Warehouse
 (changed) page 27
 Sec. 420, Sensitizer (added) page 29
 Sec. 422, Use (specifics added) page 30

Code Body Changes:

Sec. 503 (a), page 32 & 33
 Sec. 506 (c), page 38
 Sec. 507, page 38 & 39
 Table No. 5-A, page 43, 44 & 45
 Table No. 5-B, page 46
 Table No. 5-C, page 47
 Table No. 5-D, page 48
 Sec. 702 (b), page 55 & 56
 Sec. 802 (d), page 63

Sec. 3309 (a), page 648
 Sec. 3320, page 657
 Sec. 3802 (f), page 682
 Sec. 5207 (a), page 784
 Appendix Table No. 11-B page 832

(4) Section 2312(h) 2.I. Diaphragms. (iv) of the Uniform Building Code is hereby amended to read as follows:

(iv) Where wood diaphragms are used to laterally support concrete or masonry walls, the anchorage shall conform to Section 2312(h) 2. H above. In Seismic Zones Nos. 2, 3 and 4 anchorage shall not be accomplished by use of toe nails or nails subject to withdrawal, nor shall wood ledgers or framing be used in cross-grain bending or cross-grain tension, and the continuous ties required by paragraph (iii) above shall be in addition to the diaphragm sheathing.

(5) Uniform Building Code Section 2722(f) 6 item 1 of the exception is hereby amended to read as follows:

EXCEPTION: This requirement need not apply in any of the following cases, provided the compactness limitations for beams given in Section 2722 (f) ((3)) 4 shall apply to columns as well:

1. For columns with f_a less than $((9 \cdot 4F_y)) 0.4F_y$ for all load combinations, except for loads specified in Section 2722(d) 1. Such columns shall have allowable stresses reduced 25 percent when one end frames into a joint not complying with Formula ((22-3)) 22-3, and 50 percent when both ends frame into joints not complying with Formula ((22-3)) 22-3.

(6) Uniform Building Code Section 2722(f) 7. is hereby amended to read as follows:

7. Trusses in SMRSP. Trusses may be used as horizontal members in SMRSP if the sum of the truss seismic force flexural strength exceeds the sum of the column seismic force flexural strength immediately above and below the truss by a factor of at least 1.25. For this determination the strengths of the members shall be reduced by the gravity load effects. In buildings of more than one story, the column axial stress shall not exceed $0.4F_y$ and the ratio of the unbraced column height to the least radius of gyration shall not exceed 60. Columns shall have allowable stresses reduced 25 percent when one end frames into a truss, and 50 percent when both ends frame into trusses. The connection of the truss chords to the column shall develop the lesser of the following:

- A. The strength of the truss chord.
- B. The chord force necessary to develop 125 percent of the flexural strength of the column.

(7) The following section shall be added to the Uniform Building Code:

Section 3801(e) when sprinklers are installed in an insulated ceiling cavity not meeting exceptions of UBC Standard 38-1 or where blocked by ducts or other similar obstructions, a space 6 inches or greater in depth with not less than 12 inches clearance from ducts or other similar obstructions shall be provided under all sprinklers.

(8) Section 3802(h) of the Uniform Building Code is hereby amended to read as follows:

(h) Group R Division 1 Occupancies. An automatic sprinkler system shall be installed throughout every apartment house three or more stories in height or containing more than 15 dwelling units and every hotel three or more stories in height or containing 20 or more guest rooms. Residential or quick response standard sprinkler heads shall be used in the dwelling unit and guest room portions of the building. The sprinkler system shall comply with the requirements of Washington State Building Code Standard No. 38-3W.

(9) Section 5103 of the Uniform Building Code is hereby not adopted in order to eliminate conflict with chapter 296-81 WAC as adopted by the Washington state department of labor and industries pursuant to chapter 70.87 RCW.

(10) Section 5105 of the Uniform Building Code shall be amended to read as follows:

Elevator Machine Room Floors

Section 5105. Elevator hoistways shall not be vented through an elevator machine room unless such venting is accomplished by an approved duct system installed through the elevator machine room. Cable slots entering the machine room ~~shall be sleeved beneath the machine room floor and extend to not less than 12 inches below the shaft vent to~~ must be installed in a manner that inhibits the passage of smoke into the machine room.

(11) A New Standard No. 38-3W shall be added to Chapter 38 of the Uniform Building Code Standards as follows:

WASHINGTON STATE BUILDING CODE STANDARD NO. 38-3W

INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES

Sec. 38.301W. Except for the limitations, deletions, modifications or amendments set forth in Section 38.302W of this standard, the installation of sprinkler systems in residential occupancies of four stories or less when required by the Uniform Building Code shall be in accordance with the "Standard for the Installation of Sprinkler Systems in Residential Occupancies, NFPA 13R-1988", published by the National Fire Protection Association, copyright 1988, Batterymarch Park, Quincy, Massachusetts 02269, as if set out at length herein.

Sec. 38.302W. The National Fire Protection Association standard adopted by section 38.301W applies to the selection, installation, inspection, maintenance and testing of residential sprinkler systems, except as follows:

1. Table 1-5.1 is amended to read as follows:

Table 1-5.1

<u>Materials and Dimensions</u>	<u>Standard</u>
<u>Spec. for Black and Hot-Dipped Zinc Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use</u>	<u>ASTM A795</u>
<u>Specification for Welded and Seamless Steel Pipe</u>	<u>ASTM A53</u>

Table 1-5.1

<u>Materials and Dimensions</u>	<u>Standard</u>
<u>Wrought-Steel Pipe</u>	<u>ANSI B36.10</u>
<u>Specification for Electric-Resistance Welded Steel Pipe</u>	<u>ASTM A135</u>
<u>Copper Tube (Drawn, Seamless)</u>	
<u>Specification for Seamless Copper Tube</u>	<u>ASTM B88</u>
<u>Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube</u>	<u>ASTM B251</u>
<u>Brazing Filler Metal (Classification BCuP-3 or BCuP-4)</u>	<u>AWS A5.8</u>
<u>Specification for Solder Metal, 9-5 (Tin-Antimony-Grade 95TA)</u>	<u>ASTM B32</u>
<u>Specifications for CPVC Pipe</u>	<u>ASTM F437</u>
	<u>ASTM F438</u>
	<u>ASTM F439</u>
	<u>ASTM F442</u>
<u>Specification for Polybutylene Tube</u>	<u>ASTM D 3309</u>

2. Table 1-5.5 is amended to read as follows:

Table 1-5.5

<u>Materials and Dimensions</u>	<u>Standard</u>
<u>Cast Iron</u>	
<u>Cast Iron Threaded Fittings</u>	
<u>Class 125 and 250</u>	<u>ANSI B16.4</u>
<u>Cast Iron Pipe Flanges and Flanged Fittings</u>	<u>ANSI B16.1</u>
<u>Malleable Iron</u>	
<u>Malleable Iron Threaded Fittings</u>	
<u>Class 150 and 300</u>	<u>ANSI B16.3</u>
<u>Steel</u>	
<u>Factory-made Threaded Fittings</u>	
<u>Class 150 and 300</u>	<u>ANSI B16.9</u>
<u>Buttwelding ends for Pipe, Valves Flanges and Fittings</u>	<u>ANSI B16.25</u>
<u>Spec. for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Elevated Temperatures</u>	<u>ASTM A234</u>
<u>Pipe Flanges and Flanged Fittings, Steel Nickel Alloy and Other Special Alloys</u>	<u>ANSI B16.5</u>
<u>Forged Steel Fittings, Socket Welded and Threaded</u>	<u>ANSI B16.11</u>
<u>Copper</u>	
<u>Wrought Copper and Copper Alloy- Solder-Joint Pressure Fittings</u>	<u>ANSI B16.22</u>

Table 1-5.5

Materials and Dimensions

Standard

<u>Cast Copper Alloy Solder-joint Pressure fittings</u>	<u>ANSI B16.18</u>
<u>Plastic Fittings for CPVC Pipe</u>	<u>ASTM F437</u>
	<u>ASTM F438</u>
	<u>ASTM F439</u>
	<u>ASTM F442</u>
<u>Plastic Fittings for Polybutylene tube</u>	<u>ASTM D 3309</u>

(12) EXCEPTION: In the case of conflict between the ventilation requirements of sections 605, section 705, section 905 and section 1205 of this code and the ventilation requirements of chapter 51-12 WAC, the Washington State Energy Code, or where applicable, a local jurisdiction's energy code, the provisions of such energy codes shall govern.

AMENDATORY SECTION (Amending Order 88-11, filed 12/1/88, effective 7/1/89)

WAC 51-16-050 UNIFORM FIRE CODE AND UNIFORM FIRE CODE STANDARDS. The 1988 edition of the Uniform Fire Code and the 1988 edition of the Uniform Fire Code Standards published by the International Conference of Building Officials, and the Western Fire Chiefs Association is hereby adopted by reference.

(1) Section 10.306(h) of the Uniform Fire Code is hereby amended to read as follows:

(h) Group R Division 1 Occupancies. An automatic sprinkler system shall be installed throughout every apartment house three or more stories in height or containing more than 15 dwelling units and every hotel three or more stories in height or containing 20 or more guest rooms. Residential or quick response standard sprinkler heads shall be used in the dwelling unit and guest room portions of the building. The sprinkler system shall comply with the requirements of Washington State Building Code Standard No. 38-3W.

(2) Article 80 of the 1988 edition of the Uniform Fire Code is hereby not adopted and Article 80 of the 1985 edition of the Uniform Fire Code is hereby adopted in its place.

The changes made between the 1985 edition of the Uniform Fire Code and the 1988 edition of the Uniform Fire Code for the purposes of integrating Article 80 into other sections of the 1988 edition of the Uniform Fire Code are also not adopted.

The sections and tables listed below contain changes to the 1988 edition of the Uniform Fire Code made for this purpose.

Standards:
Sec. 2.304 (b), page 9

Permits:

Sec. 4.108

- c.6. Compressed Gases,
page 15
- h.1. Hazardous materials,
page 16 & 17
- h.2. Highly toxic pesticides,
page 18

Definitions:

Sec. 9.105

- CFR, page 23
- Carcinogen, page 23

Sec. 9.117.

- Group H Occupancies,
pages 36 & 37
- Organic Peroxide, page 39
- Oxidizer, page 39

Sec. 9.118.

- Peroxide-Forming Chemical,
page 39
- Primary Containment, page 40
- Proprietary Information,
page 40
- Pyrophoric, page 40

Sec. 9.121.

- Secondary Containment,
page 41
- Segregated Storage, page 41
- Sensitizer, page 41

Sec. 9.122.

- Toxic Material, page 43

Sec. 9.123.

- Unauthorized Discharge,
page 44
- Unstable (Reactive) Liquid,
page 44

Sec. 9.125.

- Water-Reactive Materials,
page 45

Appendices:

- II-E Hazardous Materials Management Plan &
Hazardous Materials Inventory State-
ment, page ((419)) 415
- VI-A Hazardous Materials Classifications,
page 436