

1.1 **Department of Labor and Industry**

1.2 **Proposed Permanent Rules Relating to the Minnesota State Building Code**

1.3 **1305.0903 [F] SECTION 903, AUTOMATIC SPRINKLER SYSTEMS.**

1.4 [For text of subs 1 to 5, see M.R.]

1.5 Subp. 5a. **[F] Section 903.3.1.** IBC [F] Section 903.3.1 is amended by adding
1.6 a subsection to read as follows:

1.7 **903.3.1.6 Modifications to sprinkler standards.** The sprinkler installation standards as
1.8 referenced in Sections 903.3.1.1, 903.3.1.2, and 903.3.1.3 are modified as follows:

1.9 **903.3.1.6.1 Hose stream requirements.** When, in the opinion of the fire chief, an
1.10 adequate alternate water supply for hose stream requirements is provided or available, the
1.11 water supply requirements for the sprinkler system hose stream demands may be modified.

1.12 **903.3.1.6.2 Elevator shafts and equipment.** Sprinkler protection shall not be installed in
1.13 elevator shafts, elevator pits, or elevator machine rooms.

1.14 **903.3.1.6.3 Swimming pools.** Sprinkler protection need not be provided on the ceiling of
1.15 rooms containing swimming pools when the pool area is used exclusively for swimming
1.16 purposes and when sprinklers are provided around the perimeter of the pool area.

1.17 **903.3.1.6.4 NFPA 13 modifications.** Sections ~~8.6.4.1.4.2, 8.6.4.1.4.3, 8.14.8.2, and~~
1.18 ~~8.16.2.5~~ 8.15.8.2 and 8.17.2.5 of NFPA 13 are revised to read:

1.19 ~~**8.6.4.1.4.2 Combustible spaces; installation near peak.** Sprinklers under a roof or~~
1.20 ~~ceiling in combustible concealed spaces of wood joist or wood truss construction with~~
1.21 ~~members 3 feet (0.9 m) or less on center and a slope having a pitch of four in 12 or~~
1.22 ~~greater shall be installed so that a row of sprinklers is installed within 12 inches (305~~
1.23 ~~mm) horizontally of the peak and 1-12 inches (25.4-305 mm) down from the bottom~~
1.24 ~~of the top chord member.~~

1.25 ~~**8.6.4.1.4.3 Combustible spaces; installation along eave.** Sprinklers under a roof or~~
1.26 ~~ceiling in combustible concealed spaces of wood joist or wood truss construction with~~

2.1 ~~members 3 feet (0.9 m) or less on center and a slope having a pitch of four in 12 or greater~~
2.2 ~~shall be installed so that the sprinklers installed along the eave are located not less than 5~~
2.3 ~~feet (1.5 m) from the intersection of the truss cords.~~

2.4 **8.14.8.2 8.15.8.2 Linen closets and pantries.** Sprinklers are not required in linen closets
2.5 and pantries within dwelling units that meet the following conditions:

- 2.6 1. The area of the space does not exceed 12 square feet (1.1 m²).
- 2.7 2. The least dimension does not exceed 3 feet (0.9 m).
- 2.8 3. The walls and materials are surfaced with noncombustible or limited combustible
2.9 materials.
- 2.10 4. The closet or pantry contains no mechanical equipment, electrical equipment,
2.11 or electrical appliances.

2.12 **8.16.2.5 8.17.2.5 Valves.**

2.13 **8.16.2.5.1 8.17.2.5.1 Fire department connection.** A listed check valve shall be installed
2.14 in each fire department connection.

2.15 **8.16.2.5.1.1 8.17.2.5.1.1 Maximum pipe length.** There shall be a maximum of 25 feet
2.16 (7.6 m) of pipe between the check valve and the fire department connection inlet.

2.17 **Exception:** This maximum shall not apply to the check valve serving a free-standing
2.18 fire department connection.

2.19 **8.16.2.5.1.2 8.17.2.5.1.2 Check valve location.** The check valve shall be located to
2.20 minimize freezing potential.

2.21 [For text of subps 6 to 8, see M.R.]

2.22 **1305.3500 CHAPTER 35, REFERENCED STANDARDS.**

2.23 Subpart 1. Modifications to chapter 35. The list of referenced standards in IBC
2.24 chapter 35 is modified as follows:

2.25 A. References to NFPA 11-02 shall be deleted and replaced with references to
2.26 NFPA 11-05.

3.1 B. References to NFPA 12-00 shall be deleted and replaced with references to
3.2 NFPA 12-08.

3.3 C. References to NFPA 12A-04 shall be deleted and replaced with references
3.4 to NFPA 12A-08.

3.5 D. References to NFPA 13-02 shall be deleted and replaced with references to
3.6 NFPA 13-10.

3.7 E. References to NFPA 13R-02 shall be deleted and replaced with references to
3.8 NFPA 13R-10.

3.9 F. References to NFPA 14-03 shall be deleted and replaced with references to
3.10 NFPA 14-07.

3.11 G. References to NFPA 30-03 shall be deleted and replaced with references to
3.12 NFPA 30-08.

3.13 H. References to NFPA 72-02 shall be deleted and replaced with references to
3.14 NFPA 72-10.

3.15 I. References to NFPA 2001-04 shall be deleted and replaced with references
3.16 to NFPA 2001-08.

3.17 Subp. 2. **Supplemental standards.** The standards listed in this subpart shall
3.18 supplement the list of referenced documents in chapter 35 of the IBC. The standards
3.19 referenced in this subpart shall be considered part of the requirements of this rule to the
3.20 extent prescribed in each rule or reference. ~~IBC Chapter 35 is amended by modifying a~~
3.21 ~~referenced standard as follows:~~

3.22 NFPA 45 - 2004 Standard on Fire Protection for Laboratories Using Chemicals

3.23 **1307.0092 REFERENCED CODES, STANDARDS, AND SPECIFICATIONS.**

3.24 **Section 9.1 ASME A17.1 and ASME A17.1a referenced documents.** References to
3.25 NFPA 13-1985 shall be deleted and replaced with references to NFPA 13-2010.

4.1 **1309.4300 REFERENCED STANDARDS.**

4.2 Modifications to chapter 43. The list of referenced standards in IRC chapter 43 is
4.3 modified as follows:

4.4 A. References to NFPA 13-02 shall be deleted and replaced with references to
4.5 NFPA 13-10.

4.6 B. References to NFPA 58-04 shall be deleted and replaced with references to
4.7 NFPA 58-11.

4.8 C. References to NFPA 72-02 shall be deleted and replaced with references to
4.9 NFPA 72-10.

4.10 **1346.1500 CHAPTER 15, REFERENCED STANDARDS.**

4.11 Subpart 1. **Modifications to chapter 15.** The list of referenced standards in IMC
4.12 Chapter 15 is modified as follows:

4.13 A. References to NFPA 211-2003 shall be deleted and replaced with references
4.14 to NFPA 211-2006.

4.15 B. References to NFPA 30A-00 shall be deleted and replaced with references
4.16 to NFPA 30A-08.

4.17 ~~B. C.~~ References to NFPA 31-2001 shall be deleted and replaced with references
4.18 to NFPA 31-2006.

4.19 D. References to NFPA 58-04 shall be deleted and replaced with references to
4.20 NFPA 58-11.

4.21 E. References to NFPA 72-02 shall be deleted and replaced with references to
4.22 NFPA 72-10.

4.23 [For text of subp 2, see M.R.]

4.24 **1346.5800 CHAPTER 8 REFERENCED STANDARDS.**

5.1 Subpart 1. Modifications to IFGC chapter 8. The list of referenced standards
5.2 in IFGC chapter 8 is modified as follows:

5.3 A. References to NFPA 30A-03 shall be deleted and replaced with references
5.4 to NFPA 30A-08.

5.5 B. References to NFPA 58-04 shall be deleted and replaced with references to
5.6 NFPA 58-11.

5.7 Subp. 2. Supplemental standards. The standards listed in this part shall supplement
5.8 the list of referenced documents in chapter 8 of the 2006 IFGC. The standards referenced
5.9 in this rule shall be considered part of the requirements of this rule to the extent prescribed
5.10 in each rule or reference.

5.11 A. NFPA 54-2009 *National Fuel Gas Code*;

5.12 B. NFPA 85-2007 *Boiler and Combustion Systems Hazards Code*; and

5.13 C. ASME CSD-1 2006 *Controls and Safety Devices for Automatic Boilers*.

5.14 **EFFECTIVE DATE.** The amendments to Minnesota Rules, parts 1305.0903, 1305.3500,
5.15 1307.0092, 1309.4300, and 1346.5800, are effective five working days after publication of
5.16 the notice of adoption in the State Register.