

**EXPRESS TERMS  
FOR  
PROPOSED EMERGENCY BUILDING STANDARDS  
OF THE  
OFFICE OF THE STATE FIRE MARSHAL  
REGARDING THE 2010 CALIFORNIA FIRE CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9  
ANTIFREEZE SOLUTIONS WITHIN RESIDENTIAL BUILDING APPLICATIONS  
MODIFICATIONS TO NFPA 13, 13D AND 13R FIRE SPRINKLER STANDARDS**

The Office of the State Fire Marshal (OSFM) proposes to make necessary changes to the 2010 edition of the California Fire Code (CFC) adopted reference standards 2010 editions NFPA 13, 13D and 13 R.

**Legend for Express Terms:**

1. California amendments brought forward without modification: Not shown for clarity
2. New California amendment: *California language appears underlined and in Italics.*
3. Repealed text: Shown as ~~Strikeout~~.

**[The SFM proposes to amend Chapter 47 with the following amendments and California regulations.]**

**CHAPTER 47  
REFERENCED STANDARDS**

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Sections 1.1.5, 1.1.7 and 102.6.

**NFPA** National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02269-9101

Standard reference number	Title	Referenced in code section number
13—10	Installation of Sprinkler Systems <i>as amended</i> *. . . . .	Table 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.2, 904.11, 905.3.4, 907.7.3, 2301.1, 2304.2, Table 2306.2, 2306.9, 2307.2, 2307.2.1, 2308.2.2, 2308.2.2.1, 2308.4, 2310.1, 2501.1, 2804.1, 2806.5.7, 3404.3.3.9, Table 3404.3.6.3(7), 3404.3.7.5.1, 3404.3.8.4

*\*NFPA 13, Amended Sections as follows:*

**Revise Section 7.6.2.2 as follows:**

**7.6.2.2** Glycerine–water and propylene glycol–water mixtures shown in Table 7.6.2.2 shall be considered suitable for use. *Antifreeze solutions exceeding 50% by volume of glycerine–water or 40% by volume of propylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.*

**Revise Section 7.6.2.3 as follows:**

7.6.2.3 If potable water is not connected to sprinklers, the commercially available materials indicated in Table 7.6.2.3 shall be permitted for use in antifreeze solutions. Antifreeze solutions of diethylene glycol–water or ethylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.

**Add new Section 7.6.2.5.1 as follows:**

7.6.2.5.1 Antifreeze solutions shall be factory premix solutions within dwelling unit portions of the sprinkler system.

13D—10

Standard for the Installation of Sprinkler Systems in One-and Two-Family Dwellings and Manufactured Homes *as amended*\* ..... 903.3.1.3, 903.3.5.1.1

**\*NFPA 13D, Amended Sections as follows:**

**Revise Section 8.3.3.2.3 as follows:**

8.3.3.2.3 Percent solution by volume of glycerine–water and propylene glycol–water mixtures shall be in accordance with Table 8.3.3.2.3, Figure 8.3.3.2.3(a), and Figure 8.3.3.2.3(b). Antifreeze solutions exceeding 50% by volume of glycerine–water or 40% by volume of propylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.

**Revise Section 8.3.3.2.5 as follows:**

8.3.3.2.5 Percent solution by volume of diethylene glycol–water and ethylene glycol–water shall be in accordance with Table 8.3.3.2.5. Antifreeze solutions of diethylene glycol–water or ethylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.

**Add new Section 8.3.3.2.7 as follows:**

8.3.3.2.7.1 Antifreeze solutions shall be factory premix solutions

13R—10

Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height *as amended*\* ..... 903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4

**\*NFPA 13R, Amended Sections as follows:**

**Add new Section 5.4.2.1 as follows:**

5.4.2.1 Antifreeze solutions exceeding 50% by volume of glycerine–water or 40% by volume of propylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.

**Add new Section 5.4.2.2 as follows:**

5.4.2.2 Antifreeze solutions of diethylene glycol–water or ethylene glycol–water mixtures shall not be permitted within dwelling unit portions of the sprinkler system.

Authority: Health and Safety Code Sections 13100.1, 13108, 13143, 13210, 13211, 17921(b), 18928(a), and 18949.2(b) and (c)

References: 13108, 13113, 13211, 17921(b) and 18949.2(b) and (c)