



**Tuesday e-Tech Alert**  
**February 19, 2008**  
**Number 108**

**Errors and TIAs for the 2007 Edition of NFPA 13**

All users of the 2007 edition of NFPA 13 should be aware that the NFPA issued an official errata sheet for the document on August 13, 2007. The errata sheet (c. 2007 NFPA) addressed the first printing of the document, so some of these errors were corrected in subsequent printings:

1. *Revise Fire Department Connection reference in Index (p. 369) as follows:*
  - a) Delete 8.17.5.2 and replace with 8.17.2
  - b) Change the definition reference from 3.12.4 to 3.8.1.4
2. *Figures A.9.3.5(a) and A.9.3.5(b) bottom section as follows:*  
Sprinkler System Load Calculation [ $F_{pw} = \_\_\_ W_p$  (default 0.5)]  
Change existing  $F_p = \_\_\_\_\_\_ W_p$  to  $F_{pw} = \_\_\_\_\_\_ W_p$   
Change existing  $F_p \times 1.15$  to  $W_p \times 1.15$
3. *Figure A.9.3.5(b):*  
Change page number 2 of 2 to 1 of 1
4. *Paragraph 10.1.1 change "and" to "or".*
5. *Revise A.12.1.3.4 by adding a vertical line and in the 3rd paragraph 2nd line reference to K-5.6 should be K-11.2 per ROP 13-506.*
6. *Revise Table 15.4.1 by*
  - (a) *On page 135, extending the line in the first two columns between the maximum Storage Height of 40 ft and 20 ft.*
  - (b) *On page 136, in the second column delete the words "Cartoned unexpanded plastic" and the line directly below.*
7. *Revise 16.2.5.1.2(7) and 17.2.5.1.2(7) as follows:*  
(7) The aisle widths shall be at least ~~7 ft~~ 7 ½ ft (2.3 m).
8. *Table 16.3.2.1(a) and (b): Revise Note as follows:*  
\*High temperature rated sprinklers shall be used. Dry system water delivery shall be determined in accordance with ~~7.2.3.4~~ 7.2.3.6 or 7.2.3.7 with a ~~minimum~~ maximum time of water delivery of 30 seconds with four sprinklers initially open.
9. *Figure 17.1.2.1 – Add vertical rule to the figure notes.*
10. *Table 18.4(d) – Correct note references in Table 18.4(d). In seventh column, change the title to read "Number of Sprinklers". In rows 1 through 8 of that column change the*

*note reference to read "(See Note 2)". In row 9 of that column change the note reference to read "(See Note 3 and 4)".*

*11. Revise last column of Table 19.1.2.2 by changing "See Note 3" to "See Note 2".*

*12. Paragraph 21.7.2.3.4 Change (100cm) to (10cm)*

*13. Annex C – C.9 change (4.65km<sup>2</sup>) to (4,645 m<sup>2</sup>) and (9.29 km<sup>2</sup>) to (9.290 m<sup>2</sup>)*

*14. Delete reference to Compact Shelves in the Index (p. 366).*

In addition to the officially-acknowledged errors, the NFSA has pointed out the following list of presumed errors at various points in time through its *Sprinkler TechNotes* and *eTechAlert* publications:

**Sections 8.17.4.4.3 and 8.17.4.4.4** – For test connections on double-interlock preaction systems the intent was to mirror section 8.17.4.3 on dry-pipe systems. The first section requires the connection and the second section tells you that the connection needs to be on the most remote portion of the system. However, the language is awkward since it implies that double-interlock systems less than 750 gal in size do not need to have a remote test connection. Since changes to Section 7.3.2.3 eliminated the 750 gallon alternative to the 60-second water delivery requirement, the reference to 750 gallons is meaningless. Sections 8.17.4.4.3 and 8.17.4.4.4 need to apply to all double-interlock preaction systems, not just those over 750 gallons in capacity.

**Section A.16.2.1.3.2** – This section references Figures 16.2.1.3.2(b) through 16.2.1.3.2(g) two times, but should really reference all of the Figures 16.2.1.3.2(a) through 16.2.1.3.2(g) in both places. It was correct in the annex of the 2002 edition (A.12.3.2.1.2) but somehow got changed for 2007, probably as the committee took out and then put back in the density/area curves.

**Section 21.4.1.5** – As discussed in the December 4, 2007 edition of *eTechAlert*, this section reads as follows: "The sprinkler system for each spray area and mixing room shall be controlled by a separate, listed indicating valve(s), operable from the floor." However, this wording is intended to be based on Section 9.4.5 of the 2007 edition of NFPA 33, which was simplified in the 2007 edition to read: "The sprinkler system shall be controlled by a separate listed indicating valve(s), operable from floor level."

**Section 21.20** – As explained in the September 18, 2007 of *eTechAlert*, most items in Chapter 21 for special occupancies supersede the normal rules of the standard, as stated in Section 21.1.1.2. However, most code authorities would agree that sections of NFPA 101 do not override NFPA 13 unless NFPA 101 is an applicable code for the jurisdiction. NFPA 101 was not included among the various codes and standards referenced in chapter 13 of the 2002 edition of NFPA 13. While the criteria from NFPA 101 that conflict with NFPA 13 are interesting and its identification useful to a user, it would more appropriately placed in the annex for informational purposes only.

## **Tentative Interim Amendments (TIAs)**

Tentative Interim Amendments are used to correct significant errors in the NFPA standards. A Tentative Interim Amendment is tentative because it has not been processed through the entire

standards-making procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a proposal of the proponent for the next edition of the standard and is then subject to all of the procedures of the NFPA standards-making process.

There have been two such emergency amendments issued for the 2007 edition of NFPA 13, one of which was processed prior to the first printing and was able to be incorporated in the standard from the start.

1. NFPA 13 TIA 07-01, issued with the 2007 edition of NFPA 13, modified Section 7-2.3 to restore the volume limitations (500 gallon or 750 gallon with QOD) as allowable means of limiting the size of dry pipe systems not serving dwelling units.

2. NFPA 13 TIA 07-2, discussed in the November 27, 2007 edition of *eTechAlert*, was issued on January 10, 2008 with an effective date of January 30, 2008, and addresses the beam centerline allowance:

*Section 8.8.5.2.1.6 from the 2002 edition of the standard is inserted as 8.8.5.2.1.6 of the 2007 edition of the standard as follows, with the two subsequent sections to be renumbered:*

**8.8.5.2.1.6** Sprinklers shall be permitted to be installed on the centerline of a truss or bar joist or directly above a beam provided that the truss chord or beam dimension is not more than 8 in. (203 mm) and the sprinkler deflector is located at least 6 in. (152 mm) above the structural member and where the sprinkler is positioned at a distance four times greater than the maximum dimension of the web members away from the web members.

### **Upcoming NFSA “Business Thursday” Seminar – February 21st**

*Topic: Water Utility Fees*

*Instructor: Dom Kasmauskas, NFSA Northeast Regional Manager*

*Date: February 21, 2008*

The critical topic of water utility fees will be featured in this presentation. Many areas of the country are facing important issues regarding the use of our precious water resources. This presentation will take a look at water tap fees and standby fees, and provide suggestions on how to deal with unreasonable local requirements. It will also address how some areas are recognizing the importance of home fire sprinkler systems and how that recognition leads to improved water supply infrastructure, creating a win-win situation for all of the stakeholders.

### **Upcoming NFSA “Technical Tuesday” Seminar – February 26th**

*Topic: Antifreeze System Updates*

*Instructor: Kenneth E. Isman, P.E., NFSA Vice President of Engineering*

*Date: February 26, 2008*

In the 2007 edition of NFPA 13, many changes were made regarding the use of antifreeze systems including the calculation techniques that are required to be used and the concentrations of solutions that are permitted. This seminar will provide an overview of antifreeze system

requirements, review and explain the basis behind the changes in the 2007 edition, and provide examples of how to perform the new calculations.

Information and registration for the above seminars and both the “Technical Tuesday” and “Business Thursday” 2008 series are available at [www.nfsa.org](http://www.nfsa.org) or by calling Dawn Fitzmaurice at 845-878-4200 ext. 133 or email: [dawn@nfsa.org](mailto:dawn@nfsa.org).

*Additional NFSA training opportunities include...*

### **NFSA Two-Week Technician Training Classes**

<b>April 7-18, 2008</b>	<b>Orlando, FL</b>
<b>August 4-15, 2008</b>	<b>Providence, RI</b>
<b>October 13-24, 2008</b>	<b>Chicago, IL</b>
<b>November 10-21, 2008</b>	<b>Houston, TX</b>

For more information, contact Nicole Sprague using [Sprague@nfsa.org](mailto:Sprague@nfsa.org) or by calling 845-878-4200 ext. 149.

### **In-Class Training Seminars**

The NFSA training department also offers in-class training on a variety of subjects at locations across the country. Here are some seminars scheduled for 2008:

Feb 19	Ft. Walton Beach, FL	Inspection, Testing & Maintenance
Feb 20	Ft. Walton Beach, FL	Sprinklers for Dwellings
Feb 21	Ft. Walton Beach, FL	Standpipe Systems (a.m)
Feb 21	Ft. Walton Beach, FL	Underground Piping (p.m.)
Mar 4	Murfreesboro, TN	Sprinklers for Dwellings
Mar 5	Murfreesboro, TN	Hydraulics for Fire Protection
Mar 6	Murfreesboro, TN	Residential Homes to High Rise
Mar 10	Winston-Salem, NC	Sprinklers for Dwellings
Mar 11	Winston-Salem, NC	Plan Review Policies & Procedures
Mar 12	Winston-Salem, NC	NFPA 13 Update 2002
Mar 25	Jacksonville, FL	Pumps for Fire Protection
Mar 26	Jacksonville, FL	Residential Homes to High-Rise
Mar 27	Jacksonville, FL	Sprinklers for General Storage
Mar 28	Jacksonville, FL	Sprinklers for Dwellings

For more information on these seminars, or to register, please visit [www.nfsa.org](http://www.nfsa.org) or call Dawn Fitzmaurice at 845-878-4207 or email [seminars@nfsa.org](mailto:seminars@nfsa.org).

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***About the National Fire Sprinkler Association***

*Established in 1905, the National Fire Sprinkler Association (NFSA) is the voice of the fire sprinkler industry. NFSA leads the drive to get life-saving and property protecting fire sprinklers into all buildings; provides support and resources for its members – fire sprinkler contractors, manufacturers and suppliers; and educates authorities having jurisdiction on fire protection issues. Headquartered in Patterson, N.Y., NFSA has regional operations offices throughout the country. [www.nfsa.org](http://www.nfsa.org).*