

NFSA Technical Tuesdays Online Seminars 2009 (First half)

January 27	Unsprinklered Spaces	<i>Kevin J. Kelly, P.E.</i>
February 10	Tanks for Fire Protection	<i>Kenneth E. Isman, P.E.</i>
February 24	Small Room Rule	<i>Cecil Bilbo, Jr., C.E.T.</i>
March 10	Applying the Seismic Load Tables	<i>Victoria B. Valentine, P.E.</i>
March 24	Copper Tube for Sprinkler Systems	<i>Michael Friedman, P.E.</i>
April 7	Older Systems and Components	<i>Russell P. Fleming, P.E.</i>
April 21	Questions on Single Family Sprinkler Installations	<i>Jeff Hugo, CBO</i>
May 12	Frequently Asked Questions – Part 4	<i>Kenneth E. Isman, P.E.</i>
June 2	Hydraulics for Non-Uniform Layouts	<i>Victoria B. Valentine, P.E.</i>
June 16	Sprinklers and the National Electrical Code	<i>Cecil Bilbo, Jr., C.E.T.</i>

January 27, 2009

Unsprinklered Spaces

Kevin J. Kelly, P.E., Consultant – Basic/Intermediate

NFPA 13 allows a number of spaces to go without sprinkler protection including concealed spaces, elevator shafts and under-floor areas. However, special conditions apply and you can't necessarily leave sprinklers out of all of these spaces in every occupancy. In addition, penalties, such as the increase of the design area to 3,000 sq ft might apply. This seminar will summarize these rules and discuss some of the recent developments such as the discussion over using fire retardant coatings to omit sprinklers from combustible concealed spaces.

February 10, 2009

Tanks for Fire Protection

Kenneth E. Isman, P.E., Vice President of Engineering – Basic

The 2008 Edition of NFPA 22 is now available and will be reviewed in depth in this program. One of the major changes to this edition of the standard is a set of all new rules allowing the expanded use of fiberglass tanks both above and below ground. The new standard also contains new figures for the use of underground tanks as cisterns and supplies for vertical shaft turbine fire pumps.

February 24, 2009

Small Room Rule

Cecil Bilbo, Jr., C.E.T., Consultant – Intermediate

The Small Room Rule is actually a combination of two separate requirements (and a definition) in NFPA 13 that applies to the spacing and location of spray sprinklers. The Small Room Rule also has a minor application in the conduction of hydraulic calculations. Many people don't know it, but half of the Small Room Rule can also be used for determining discharge from residential sprinklers under certain conditions. This seminar will review all of these uses for this misunderstood rule.

March 10, 2009

Applying the Seismic Load Tables

Victoria B. Valentine, P.E., Director of Product Standards – Intermediate

The seismic requirements introduced in the 2007 Edition of NFPA 13 are intended to simplify the sway brace calculation method for the user. This seminar will examine the load tables that were added and their application in the sway brace calculation process. In addition, the seismic coefficient, C_p , will be discussed including its applications. Examples will be utilized to understand the intent and process of determining the different loads that relate to sway bracing.

March 24, 2009

Copper Tube for Sprinkler Systems

Michael Friedman, P.E., Consultant – Basic

This seminar will summarize all of the rules for using copper tube in NFPA 13, NFPA 13R and NFPA 13D systems. Topics will include the decision to use copper, the decision to braze or solder the copper, the use of specially listed products to join the copper and make tees, and the changes to the hydraulic calculations that need to be made when copper tube is being used.

April 7, 2009

Older Systems and Components

Russell P. Fleming, P.E. Executive Vice President – Intermediate

Older systems and components are often encountered when dealing with additions and renovations of existing buildings. In many cases the components, designs and installation techniques would not be allowed for a new installation under today's rules. This seminar will review the official positions of codes, standards, and listings relative to what can be kept in use and what must or should be replaced. This seminar will also address the various fire sprinkler product recall and voluntary replacement programs that have taken place over the years, discuss their status, and review obligations when encountering those products still in service.

April 21, 2009

Questions on Single Family Sprinkler Installations

Jeff Hugo, CBO, Manager of Codes – Intermediate

With the passage of mandatory sprinkler requirements in the 2009 edition of the International Residential Code, the number of questions regarding the use of NFPA 13D have increased. This seminar will cover the common questions regarding the design of sprinkler systems, arrangements of water supplies and the potential use of wells and well pumps to meet system demand.

May 12, 2009

Frequently Asked Questions – Part 4

Kenneth E. Isman, P.E., Vice President of Engineering

This is the fourth installment in this popular series. The seminar will be split into two parts. In the first part, questions that are commonly asked of the NFSA Expert of the Day (EOD) will be answered. In the second part, the instructor will take any question on NFPA 13, NFPA 13R, NFPA 13D or NFPA 20 and answer it live for the audience.

June 2, 2009

Hydraulics for Non-Uniform Layouts

Victoria B. Valentine, P.E., Director of Product Standards – Intermediate/Advanced

There are many scenarios that do not exactly fit in the hydraulic calculation guidelines provided by NFPA 13. First the rules of the density/area hydraulic calculation method will be reviewed. Then the variations of non-uniform layouts will be discussed. These will include how to calculate non-rectangular rooms, small rooms, sprinklers under obstructions, stepped ceilings and more.

June 16, 2009

Sprinklers and the National Electrical Code

Cecil Bilbo, Jr., C.E.T., Consultant – Basic/Intermediate

The National Electrical Code has specific information for the design and installation of fire sprinkler systems. Included in this seminar will be a discussion of the rules regarding the placement of sprinklers relative to energized electrical equipment, the bonding and grounding of sprinkler systems and the use of Article 695 for electric motor driven fire pumps.