



FIRE PROTECTION NEWS

City of Madison Fire Department - Fire Prevention Division
Volume 2 - Issue 4

Meet Brian Kruser

In This Issue

Meet
Brian Kruser

New Private Service
Main Requirement

Save the Date:
October 14

A Note from
the Engineer:

Standpipe System
Required

New Construction
Changes



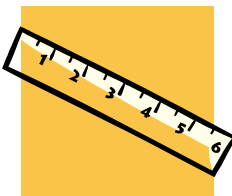
Brian started working with the Madison Fire Department in June 1992 as a maintenance mechanic at the MFD maintenance facility, keeping the engines, ladders & rescues operating. “I got my first taste of flowing water when I was conducting annual fire pump tests on the MFD’s engines and ladder trucks. The water hasn’t changed—it is all about pressure and flow. Nozzles and hoses vs. pipes and sprinklers, they both have friction loss to be calculated when making it all work properly.”

Brian became a Fire Inspector for the MFD in January 1997. He started assisting the Fire Protection Engineer with sprinkler system plan reviews in 2005 for existing building removals and shell building build-outs, working with sprinkler designers to ensure that they have code-compliant approved plans. He also worked for the Fitchburg Fire Dept. as a paid, on-call firefighter from 1993-2006.

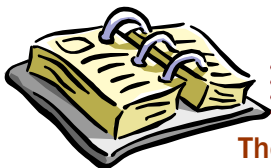
Brian holds a Commercial Building Inspector license and an AST/UST Tank Inspector license with the State of Wisconsin Department of Commerce. Brian is a State of Wisconsin Certified Fire Inspector I, Firefighter I & II, and Motor Pump and Ladder Operator. He is a graduate of MATC in Diesel & Heavy Equipment Mechanics.

Is Your Water Service Large Enough?

The 2007 Edition of NFPA 13 added a paragraph—Annex A.23.1.3.2—addressing the minimum size for fire service mains. The new section indicates that the domestic water demand should be added to the hydraulic calculations if the fire service main



is smaller than 6 inches and it also supplies the building’s domestic water. So be sure to include the domestic flow if the project will use a combined water service less than 6 inches in diameter.



MARK YOUR CALENDAR!

.....
: **October 14 - 9:00-11:00 a.m. - 1625 Northport Dr., Warner Park Community Center** :
.....

The Madison Fire Department will hold an information session on identifying the land mines in the various codes, which will include ideas to avoid design problems, and suggestions to prevent delays in approvals or occupancy. This information will be presented to developers, contractors, design professionals, builders and other interested groups. There is no cost to attend, and no registration is required. Just show up!

Address

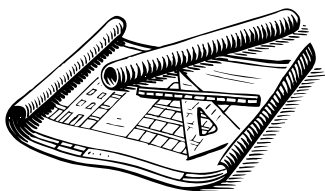
Madison Fire Department
325 W. Johnson Street
Madison, WI 53703-2295
www.madisonfire.org

Office Hours

Monday – Friday
8:00 AM – 4:30 PM

Contact

Bill Sullivan (608) 261-9658
Fire Administration (608) 266-4420
Inspection Scheduling (608) 266-4484
Fax (608) 267-1153



A Note From the Engineer

By Bill Sullivan, Fire Protection Engineer

Which Buildings Require a Standpipe System?

Section 905 of both the International Building Code and the International Fire Code describe which buildings require a standpipe system to be installed. There are (7) building features that will require a standpipe system installation:

1. Building height with a floor level more than 30 feet above the lowest fire access lane or if the lowest floor level is 30 feet below the highest fire access lane.
2. Group A occupancies capable of greater than 1000 people in non-sprinklered buildings.
3. Covered mall buildings as outlined by IBC 402.
4. Stages with more than 1000 sq. ft. in area.
5. Underground buildings per IBC 405.
6. Buildings with helistops or heliports.
7. Marinas and boatyards per NFPA 303.



The key point to note when analyzing building height is the fire lane elevation. It is not always the same as the grade plane so be sure you take these elevations into account. Also, note that a loft or mezzanine level within the highest story must be used in determining the 30-foot elevation. Refer to IFC Commentary Figure 905.3.1(1) for a graphic detail.

Building designers have options that need to be thoroughly reviewed so they fully understand the impacts of their choices. Building designers need to determine when and where fire protection systems will be required and/or installed. This

ensures adequate equipment space is included during the early space programming for the proposed facility.

Notice Any Changes?

You may have noticed a change in new construction inspections on the East Side of Madison. In July, we modified our new construction inspector position in hopes of better serving the industry demands for new construction inspections.

Code Enforcement Officer Scott Strassburg will be witnessing all new construction activities for the West Side of Madison. Code Enforcement Officer Bill Petri will handle new construction for the UW-Madison campus, along with a portion of downtown in which Bill is also responsible for State-required routine fire inspections. Code Enforcement Officer Jerry McMullen will cover Madison's East Side. In addition, you may see any one of our other code enforcement officers at your project, as they will assist when scheduling

conflicts arise.

Please read the Conditional Approval letters for each project and note the inspector copied at the bottom of the letter. This will be your primary contact for that particular project. Remember to call a minimum of 48 hours prior to when you would like to schedule your inspection. The Inspectors will respond to requests received on their desk phone in the order in which they are received. **DO NOT** attempt to call the inspector's cell phone to schedule an inspection. Do call to cancel an inspection if an unforeseen problem arises and you will not be ready for the inspection. Let's use your time, and ours, wisely.

Please feel free to drop me a note, either positive or negative, about our new construction program.

If you wish to receive future issues of *Fire Protection News* electronically (or require any other changes to the mailing list), please contact Ann Blackdeer at ablackdeer@cityofmadison.com or (608) 261-9690. Please include your name, company, and e-mail address.