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Volume 42, Issue 7



**Next Meeting**

**TUESDAY,**

**March 3rd, 2015**

**EM Duggan, CANTON, MA**

**MAIN PROGRAM**

*Pre-Fab Plumbing Systems*

**SPEAKERS**

Mr. Kevin Walsh Sr.  
 VP Plumbing, EM Duggan

**PROGRAM SCHEDULE**

Social Hour	5:00 – 6:00
Dinner	6:00 – 6:45
Chapter Business	6:45 – 7:00
Speaker / Technical Session	7:00 – 8:30

**MENU**

Tennessee Cookout  
 Ribs, Pulled Pork & Chicken

**MEETING RESERVATIONS**

**\$20.00 ONLINE Reservation**

*(Please use the electronic invitation sent to you)*

**RESERVATIONS REQUIRED!!!**

**\$25.00 Call in Reservation**

**Retired & Currently Unemployed Members are Free**

Please reserve by **Friday, February 27, 2015**

Contact Brenda @ W.P. Haney,

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**WHAT'S IN THIS ISSUE**

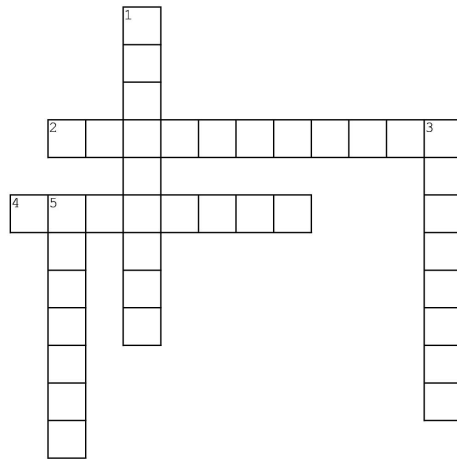
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**ASPE CROSSWORD PUZZLE**  
Mar. 2015



**Across**

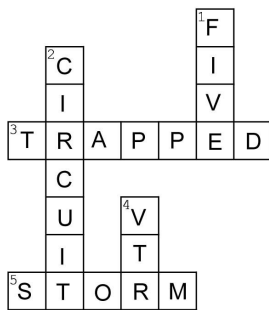
2. When multiple urinals are specified, at least one urinal must be for \_\_\_\_\_ use.  
4. A bathroom group is one shower, one toilet, and one \_\_\_\_\_

**Down**

1. All Toilets that are intended for public use must be \_\_\_\_\_ type  
3. Any water with temperature above 150-degrees shall not discharge into the \_\_\_\_\_ system  
5. All clear water waste must discharge indirectly by means of \_\_\_\_\_ (two words)

Answers will be posted in the Apr. 2015 news letter

Answers from Feb. 2015 crossword



By Luther Thevenin, CPD



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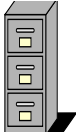
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**New England Fire Protection Systems Designers Product Show**

The New England Association of Fire Protection Systems Designers announces their 12<sup>th</sup> New England Fire Systems Product Show. The show will feature over fifty spectacular product booths exhibiting the latest in cutting edge technology and providing information to over 2,000 invited guests!! The show will be held on Thursday, March 19, 2015 at Lantana's in Randolph, Massachusetts. In addition, the show will feature concurrent fire protection seminars free of charge. For information on booth space or other information contact the New England Association of Fire Protection Systems Designers (NEAFPSD), P.O. 149, Wrentham, MA 02093-0149 or visit our web site at [www.neafpsd.com](http://www.neafpsd.com)



# Technical Report

**Next Meeting**  
Tuesday March 3, 2014  
EM Duggan, Canton, MA

**Main Program**  
Pre-fab plumbing systems

**Speaker**  
Kevin Walsh Sr. VP Plumbing – EM Duggan

### Program Schedule

Social hour:	5:00 to 6:00
Dinner:	6:00 to 6:45
Chapter Business:	6:45 to 7:00
EM Duggan 2015 Presentation of the Contractor:	7:00 to 8:30
Tour EM Duggan's New Fabrication Facility:	7:30 to 8:15
Open Discussion, Q &A:	8:15 to 8:30

The presentation will consist of the following:

Media overview of EMD, EMD Approach to Estimating, BIM, Coordination, Logistics, Fabrication, Quality Control, Delivering a Quality Plumbing Job and Building for the future

Focus will be on educating the engineering community as to how the construction side of the industry is approaching a project in today's competitive market, ( whether it's EMD or the competition) from prints to a building, what it takes and how the process is changing daily. Open discussion and questions and answers, knowledge is value. I am sure from time to time every engineer asks themselves, How is my building being built, How do my plans come to life? Kevin will review, discuss and educate on the process.

**Please note that the March meeting will be held the first Tuesday of the month, March 3<sup>rd</sup>. Reservations are required.**

By Laurence D. Johnston, CPD, V.P. Technical, Boston Chapter ASP



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# Membership News

## New Members

The Boston Chapter would like to welcome the following new member:

Shaher Boustany	Wentworth Institute	Boston, MA
Mark Gagnon	Griffith & Vary	Wareham, MA

## Overdue Membership Renewals

As of February 28<sup>th</sup>, the following members had their membership end. If you are on the list below, please renew your membership if you haven't done so already.

Bryan Bucchianeri	Vasyl Stefantsiv	Steven P. Croci	Belinda Stansbury
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Brian J. Bowes	Walter J. Araujo	Phu Sinh Ha G.E.	Paul Fiejdasz PE
Eric Perdomo	Alfred M. Marzullo P.E.	Timothy Mahoney CPD	Eduard Doraci
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However, if the email address we have on file for you isn't current, or isn't correct, or isn't your preferred email address, you must let me know ASAP. I will update it for you so you will continue to receive the chapter's monthly newsletter. So look at you label now. Verify that the email address below your name is correct.

If your email address needs to be changed, simply email me at [johnc@jhpokorny.net](mailto:johnc@jhpokorny.net) and tell me what your correct email should be.

## 21<sup>st</sup> Century Toilet Performance Information

Are you familiar with MaP performance for water closets? Would you like to know how the water closets you are specifying on your projects perform and how it compares to other manufacturer's products? MaP is a Maximum Performance scale that rates toilet efficiency and flush performance, plus gives detailed information on individual toilet characteristics. There is a third party testing agency website out there that offers all that information to the Plumbing Engineer. The website is found at [www.map-testing.com](http://www.map-testing.com) and the website provides up-to-date, independently verified comprehensive toilet information in a searchable database.

MaP scores represent the number of grams of solid waste (soybean paste and toilet paper) that a particular toilet can flush and remove completely from the fixture in a single flush. The spreadsheet lists every fixture manufacturer you've ever heard of and many more that you haven't. It also includes performance data for many private label fixtures as well. MaP was developed in 2002-03 in response to the many complaints of the 1990s about the new "low-flow" toilets (which, by the way, flushed with 1.6 gallons of water, less than 50% of the water used in its predecessors of the 1980s!). MaP development was sponsored by members of the municipal water utility industry. While many toilet performance tests have existed for years (manufacturers tests, Consumer Reports and plumbing codes), only MaP offers consumers the test results from closely replicating real world demands put upon a toilet. MaP testing was initiated specifically to identify how well popular models performed using realistic test media (fecal simulation).

MaP incorporates the use of soybean paste and toilet paper to duplicate the real world demands put upon toilets. Each toilet is tested to failure - - that is, soybean paste is repeatedly added to the toilet until the fixture can no longer remove it in a single flush. Since 2003, over 3,500 different tank-type toilet models have been tested and reported in the MaP online database. Today, over 3,100 tank-type toilet models are in the MaP 'searchable' database. Another 450+ commercial flushometer valve/bowl combinations have also been MaP tested and reported.

As a specifying Plumbing Engineer you should be aware of how well (or poorly) the fixtures you are specifying on your projects perform. You may be surprised by what you learn. Go to [www.map-testing.com](http://www.map-testing.com) for unbiased, third party testing results.

By John Callahan, CPD, V.P. Membership, Boston Chapter ASPE

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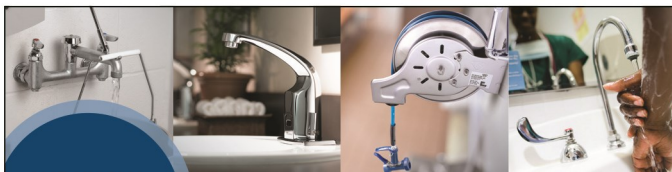
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# Legislative Report

Recently, I was asked, “When is seismic bracing required to be provided on fire sprinkler systems? This month’s legislative article is an attempt to answer this question.

Surprisingly, NFPA 13, 2013 does not tell you when to provide seismic bracing; it only tells you how to provide seismic bracing when it is required. The question of when to provide seismic bracing comes under the jurisdiction of the building code. The International Building Code (IBC), 2009 Section 1613.1 requires the structure and nonstructural components that are permanently attached to the structure to resist the effects of an earthquake per ASCE 7, 2005 “Minimum Design Loads for Building and Other Structures”. Also, the International Mechanical Code, 2012 Section 301.18 requires mechanical systems to be seismically designed when earthquake loads are applicable. So then, when are we required to seismically brace the sprinkler system? Do we just add a line or two to the specifications and throw the standard seismic bracing details onto the drawings regardless of whether seismic bracing is required or is there a more concrete answer?

In order to determine whether seismic bracing is required, we must find the seismic design category of the project per the IBC section 1613. The following is a summary of the steps to determining the seismic design category.

1. Determine the seismic ground motion values. These values  $S_s$  and  $S_1$  values from IBC figures 1613.5 (1) through 1613.5 (14) and are determined USGS. The USGS also provides on their website spread sheets for looking up these values by state or zip code. <http://earthquake.usgs.gov/designmaps/us/regions.php>
2. Determine the site classification, this is determined by the structural engineer
3. With the above information, determine the adjusted forces ( $S_{DI}$  &  $S_{DS}$  values) per IBC equations 16-36, 16-37, 16-38 & 16-39.
4. Use the adjusted forces ( $S_{DI}$  &  $S_{DS}$  values) to determine the seismic design category from IBC tables 1604.56, 1613.5.6(1), 1613.5.6 (2)
5. Is seismic bracing required? ASCE 07, 2005 13.6.8.3 exempts seismic bracing for seismic design categories A and B but requires seismic bracing for seismic design categories C and D.

As always, I would like to encourage all members to feel free contact me either by phone, email or at the monthly meeting regarding any legislative article or legislative matter.

By Frank Densi

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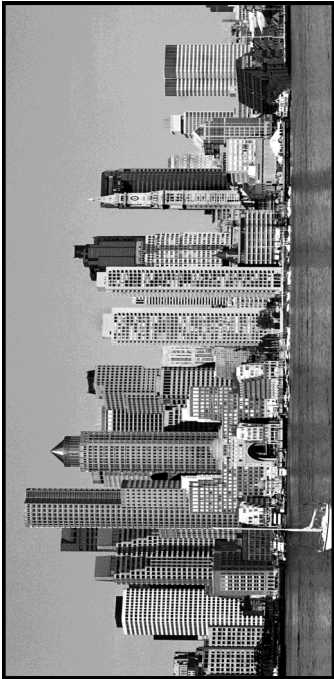


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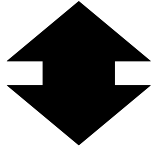
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