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Journal of the
National Fire Sprinkler
Association

SQ



The National Fire Sprinkler Association

BUYER'S GUIDE 2016

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INSIDE THIS ISSUE:

- The ICC Code Development Process for the Fire Sprinkler Industry, pg. 19
- Less Frequent Inspections and Tests, pg. 27
- Hydraulic Analysis: Cut Ends of Pipe, pg. 71

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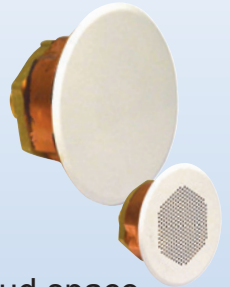
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JOANNE GENADIO

DESIGNER
JOHN L. SULLIVAN/SULLIVANDesign

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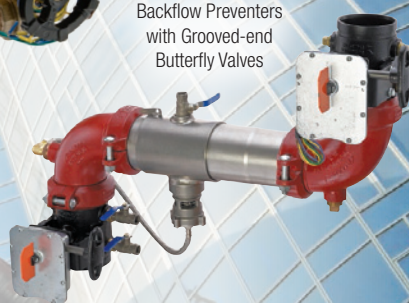
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May 3, 2016

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Dana Point, California

May 3, 2016

Understanding, Applying and Enforcing
NFPA 25
Dana Point, California

May 11-12, 2016

Sprinkler System Plan Review
Lockport, Illinois

May 12, 2016

NFPA 13, 13R, 13D & 14 Update 2013
West Springfield, Massachusetts

May 16, 2016

Understanding, Applying and Enforcing
NFPA 25
Brockton, Massachusetts

May 17, 2016

NFPA 13 Installation Criteria Updates for the
2016 Edition
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May 19, 2016

Hydraulics for Fire Protection
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May 20, 2016

Fire Service Mains & Their Appurtenances
Grand Junction, Colorado

May 24-25, 2016

Sprinkler System Plan Review
El Segundo, California

May 31, 2016

Sprinkler System Installation Requirements
San Antonio, Texas

June 1, 2016

Sprinkler Protection of Storage
San Antonio, Texas

June 2, 2016

Understanding, Applying and Enforcing
NFPA 25
San Antonio, Texas

June 3, 2016

Introduction to Fire Sprinklers, Fire Pumps &
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Concord, New Hampshire

June 7-9, 2016

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Industry
Elmira, New York

June 21, 2016

NFPA 20 Updates & Highlights
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July 27, 2016

Pumps for Fire Protection
Medford, Oregon

July 28, 2016

Sprinkler Protection of Storage
Medford, Oregon

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Orlando, Florida

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Industry
Cranston, Rhode Island

September 9, 2016

Coordinating NFPA 25 & 72 Inspection,
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SQ MAGAZINE

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see page 12 for details

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New York	New York	Dominick G. Kasmauskas, NFSA 1436 Altamont Ave. Suite 147 Rotterdam, New York 12303 (518) 937-6589 FAX (518) 836-0210	
Mid Atlantic	Delaware, Maryland, New Jersey, Pennsylvania, Virginia, Washington, D.C.	Raymond W. Lonabaugh, NFSA P.O. Box 126 Ridley Park, Pennsylvania 19078 (610) 521-4768 FAX (610) 521-2030	Kent Mezaros Quick Response Fire Protection 77 Pension Road, Suite 5 Manalapan, New Jersey 07726 (732) 786-9440 FAX (732) 786-9443 email: kmezaros@qrfpss.com
Southeast	Alabama, Georgia, Mississippi North Carolina, South Carolina	Associate Director of Regional Operations - East Wayne Waggoner, NFSA PO Box 9 Andersonville, Tennessee 37705 (865) 755-2956 FAX (865) 381-0597	Ken Brinkley Music City Fire Sprinkler 238 Molly Walton Drive Hendersonville, TN 37075 (615) 826-7450 FAX (615) 826-9680
Tennessee	Tennessee		
Florida	Florida, Puerto Rico	Lorrell Bush, NFSA 2025 Droyltsden Lane, Eustis, Florida 32726 (352) 589-8402 FAX (561) 327-6366 Cell: (954) 275-8487	Alan Wiginton Wiginton Fire Systems 699 Aero Lane Sanford, FL 32771 (407) 585-3205 FAX (407) 585-3282
Great Lakes	Indiana, Michigan, Ohio, West Virginia, Kentucky	Ron Ritchey 3311 Dover Ct. Lafayette, IN 47909 (765) 401-0318 ritchey@nfsa.org	Richard A. Ackley Dalmatian Fire, Inc. P.O. Box 78068 Indianapolis, Indiana 46278 (317) 299-3889 FAX (317) 299-4078
North Central	Minnesota	Tom Brace, NFSA 1433 Idaho Ave West St. Paul, Minnesota 55108 (651) 644-7800 FAX (651) 603-8827	Gregg Huennekens United States Alliance Fire Protection 28427 North Ballard – Unit H Lake Forest, Illinois 60045 (847) 736-3496 FAX (847) 816-0098
	Wisconsin	Marty King 3317 South 113th Street West Allis, WI 53227 (414) 531-9542 king@nfsa.org	
Illinois	Illinois	Robert Tinucci, NFSA 6401 Richmond Ave Willowbrook, Illinois 60527 (630) 655-1875 FAX: (630) 655-1875	
Central	Iowa, Kansas, Missouri	TBA	Dennis C. Coleman Engineered Fire Protection, Inc. 1615 South Kings Highway St. Louis, Missouri 63110 (314) 771-0033 FAX (314) 664-1619
South Central	Arkansas, Louisiana, Oklahoma, Texas	Cynthia Giedraitis NFSA 2013 Oakwood Trail College Station, Texas 77845 (979) 324-8934	John Kauffman III Kauffman Company 13225 FM529 – Suite A Houston, Texas 77041 (713) 937-4144 FAX (713) 937-4149
Great Plains	Colorado, Nebraska, North Dakota, South Dakota, Utah, Wyoming	Eric Gleason, NFSA P.O. Box 62157 Littleton, Colorado 80162 (720) 470-4894	Harry Nothhaft II L.Nothhaft & Son 2520 West 62nd Court Denver, Colorado 80221 (303) 433-3329 FAX (303) 433-2432
Southwest	Arizona, Nevada, New Mexico,	Associate Director of Regional Operations - West Bruce Lecair, NFSA 25417 West Hyacinth Street Corona, California 92883 (951) 277-3517 FAX (951) 277-3199	Aaron Bennett RCI Systems, Inc. 1220 West Geneva Drive Tempe, Arizona 85282 (480) 894-8711 FAX (480) 894-8740
West	California, Hawaii		Jack Thacker Allan Automatic Sprinkler Corporation 3233 Enterprise St. Brea, California 92821 (714) 993-9500 FAX (714) 993-5708
Northwest	Alaska, Idaho, Montana, Oregon, Washington	Suzanne Mayr, NFSA P.O. Box 7328 Tacoma, WA 98417 (253) 208-8467	James Boulanger Patriot Fire Protection, Inc. 2707 70th Avenue East Tacoma, Washington 98424 (253) 926-2290 FAX (253) 922-6150
		Vice President Field Operations James Lake 12 Clearwater Drive Plymouth, MA 02360 (617) 372-6214 lake@nfsa.org	DIRECTOR AT LARGE Clark Gey Wayne Automatic Fire Sprinkler 222 Capitol Court Ocoee, Florida 34761 (407) 877-5564

One Full Year.... The Next One Hundred Years

Shane Ray



Full Service to members and value added to the fire sprinkler industry. I hope that is a statement that describes my first year as President and the dedication our team at NFSA has shown during a lot of transition. My desire is that as members you see an enhancement in service over the next year and that NFSA continues to fulfill its mission over the next 100 years better than ever before.

There is no doubt about the advancement made in our industry over the past 100 years. When I reflect on our involvement in codes over the past 16 years, we went from hospitals, jails and extremely large industrial/commercial buildings being protected with fire sprinkler systems, to all but small commercial buildings being protected with fire sprinkler systems!

This didn't happen without many years of dedicated people advocating for improvements in fire protection across their communities, states and our country. There have been many tragic fires that have taken thousands of lives and scarred many others. The one thing that has been consistent is NFSA's support of the advocates who are dedicated to saving lives and property.

There have been many stakeholder groups over the years dedicated to saving lives and property. One of our primary advocates is the fire service. While there have been some statements made by some lacking knowledge concerning the use of fire sprinklers correlating to the reduction of fire department jobs, this has never proven to be the case. Some of the most vocal and emotional stakeholders are the burn survivors and family members impacted as a result of structural fires. There are many other stakeholders, associations and most impor-

tantly, our NFSA members, who have helped us advance our mission.

We have a lot of work to do over the next 100 years as we grow our industry and save more lives! There is never a year that goes by when some legislature doesn't try to weaken or remove the requirement for fire sprinkler systems in certain types of occupancies.

There are always proposals to the codes and standards making bodies to save money at the risk of lives. According to an analysis of U.S. Census data, there were approximately 675,000 houses built in America without fire sprinklers because local and state governments weakened the International Residential Code. An estimated 12 states have adopted legislation that prohibited state or local governments from adopting the most recent national codes and standards. It is estimated that another 15 states don't allow local governments to adopt the latest national codes and standards or have given special provisions that specifically "cherry pick" out fire sprinklers.

We will remain vigilant in our promotion of our mission "to save lives and property through the widespread acceptance of the fire sprinklers concept." As we relocate our national headquarters to the Baltimore/Washington DC area, we will re-engage stakeholders and make new alliances in our efforts at the local, state and federal level. I appreciate your continued support and involvement. Working together, we will continue our progress! 🇺🇸

A handwritten signature in black ink that reads "Shane Ray". The signature is fluid and cursive.

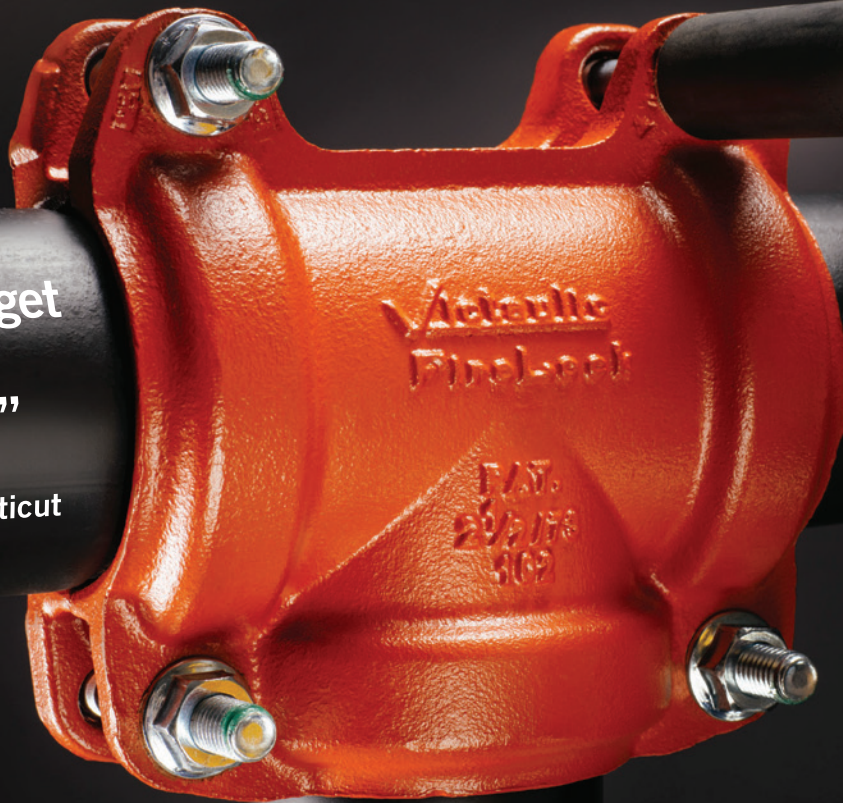
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Our Journey Begins...

Larry Thau



Through the last few years our Association (and particularly our Board of Directors) has been navigating its way through a number of significant transitions. Happily, a number of these are now behind us. Some involved policy change, some involved structural change and some involved changes in staffing. All were focused on the same consistent objectives; promoting the widespread use of fire sprinklers, operating in a more transparent and inclusive manner and generating increasing value to members. None however have generated as much debate as the question "Is our current NFSA headquarters at the best location to meet our objectives?"

NFSA's first offices were located on Wall Street in New York City in order to be close to our early influences which were insurance companies. We migrated to Patterson New York as these influences moved north and our need for larger and more economical office space became necessary. Now that our own impact is national in scope and many of our adversaries and allies for codes and legislation are all in or near our nation's capital, we will need to be there also. Our recent board meeting in Washington D.C. heightened this fact as we saw that access at the highest levels is real and possible.

Once we selected a general location, our priorities were clari-

fied. Staffing and a seamless continuity of services remains the highest priority and one where we will ask for your help and understanding as we proceed. The second priority is finding a suitable location including facilities for offices, training and meetings suitable for our current and future needs.

The debates regarding location were at times very rational and logical, at times emotional, but in all cases took us to the same conclusion... it's time to move. We weighed all of the potential benefits carefully including staffing, ease of travel for members, economics and proximity to key influences. Based upon these, our Board has voted to allow President Shane Ray to proceed with relocating NFSA to the greater Washington D.C. area. We anticipate this transition will take place after June of this year. While it's very early in this process, a number of benefits have already been felt. We will make you aware of any firm developments as soon as they occur. ①

At your service,

Larry Thau, *Chairman*

How To Effectively Negotiate -The Six-Step Professional Approach *By Richard Brody*

Nearly everything in life worth achieving requires some sort of negotiating skills. While many people say they know how to negotiate, it is important to realize that is far different from effectively doing so. Therefore, both regarding our personal lives, as well as many skills associated with business expertise, effective negotiation is a key to excellence. When we not only know how to do this, but also consistently utilize the skills, assets, attitudes and abilities, which put you in the best position, we are most capable of achieving things which so many others are not. Understand this requires doing one's homework, being prepared and following a quality game plan. Let's review the six-step, professional approach:

1. **Know your objectives:** Only if you enter into the process, knowing what you want to accomplish and achieve, have a clear vision of your goals and follow a path, in an orderly manner, will you achieve what you seek or need. Some of the biggest mistakes poor negotiators often make are underestimating their adversary, overstating what they promise, failure to differentiate between essential priorities versus wants, not understanding the need to clearly articulate and tell the truth, etc.

2. **Know your adversary's objectives/needs:** You might wonder why it is so important to know what the other side needs. Quality negotiating is not about merely asking for the moon, because unless the other side gets what it needs, the process will often fail. For example, in real estate, quality negotiating is never about merely pressuring the owner (if you represent the buyer), to lower the price dramatically, but rather getting the lowest price possible, which will be accepted and close the process, creating a meeting of the minds.

3. **Absolute integrity:** Amateurs sometimes proceed by overstating what

they can deliver and their side suffers, when inevitably it is discovered that promises can't be kept. One of the necessities of professional negotiations is to consistently maintain absolute integrity!

4. **Full disclosure:** Clearly articulate your needs. Explain you want to work together to make it work. Seek alternative approaches or methods, that will make it work well for both sides!

5. **Think outside the box:** Forget the "same-old, same-old" philosophy, mentality or approach! Rather, carefully consider alternatives, work with (rather than constantly against) the other side and develop mutually satisfying approaches. Seek ways where both sides can win!

6. **Come to a meeting of the minds:** Only when both sides come away feeling they were somewhat successful and met their needs and objectives, do you get long term, best results. Great negotiators realize that winning does not mean defeating the other side, but rather coming to an agreement which works and achieves objectives.

I've often stated negotiations should usually be left to the professionals. The process goes more smoothly and a greater proportion of goals and objectives are met. When you understand the basics and focus on the end result, you will become a far better negotiator. 🗨️

ABOUT THE AUTHOR:

Richard Brody has owned businesses, been a COO, CEO, and Director of Development, as well as a consultant. He has professionally run events, consulted and conducted personal development seminars for over 30 years. Rich has written three books and well over a thousand articles. His company, PLAN2LEAD, LLC has an informative website: <http://plan2lead.net>.



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ILLUSTRATIONS

Send an e-mail or letter briefly describing your article proposal, why the topic is important, and how it is relevant to our audience. Say something about the sources of your information (personal involvement? interviews?) and about your present position and background. Tell us what types of photographs and graphics are available to illustrate your story. Be sure to include an email address and a daytime phone number.

SQ runs full-length feature articles of approximately 800-1200 words.

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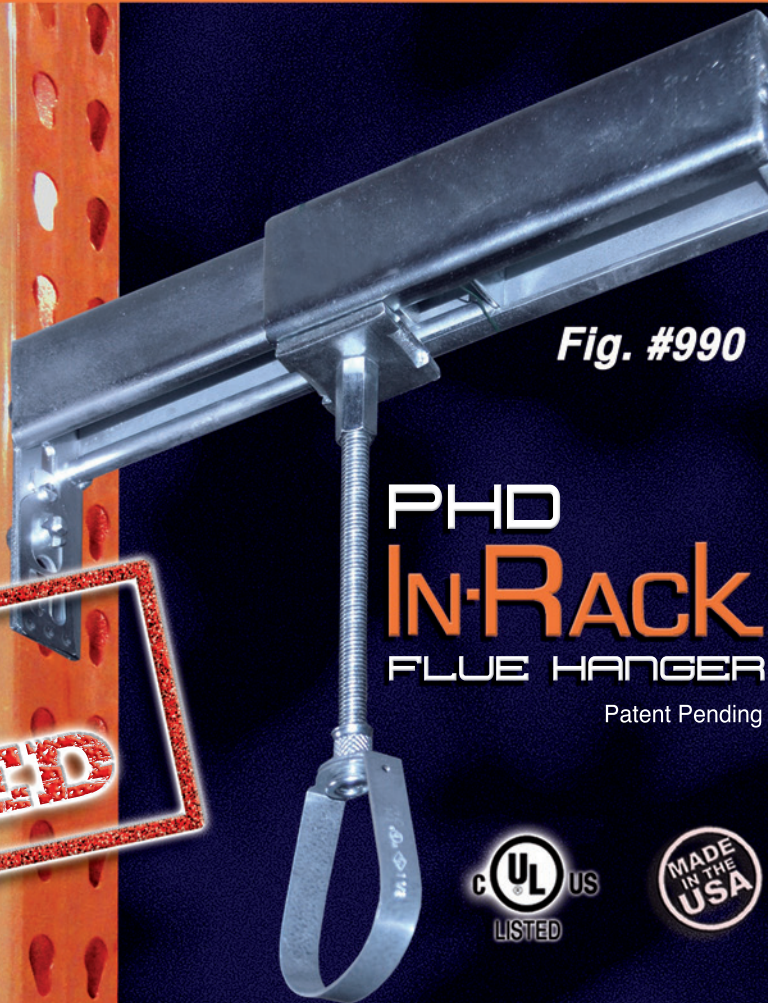
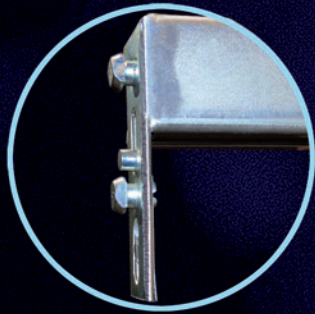


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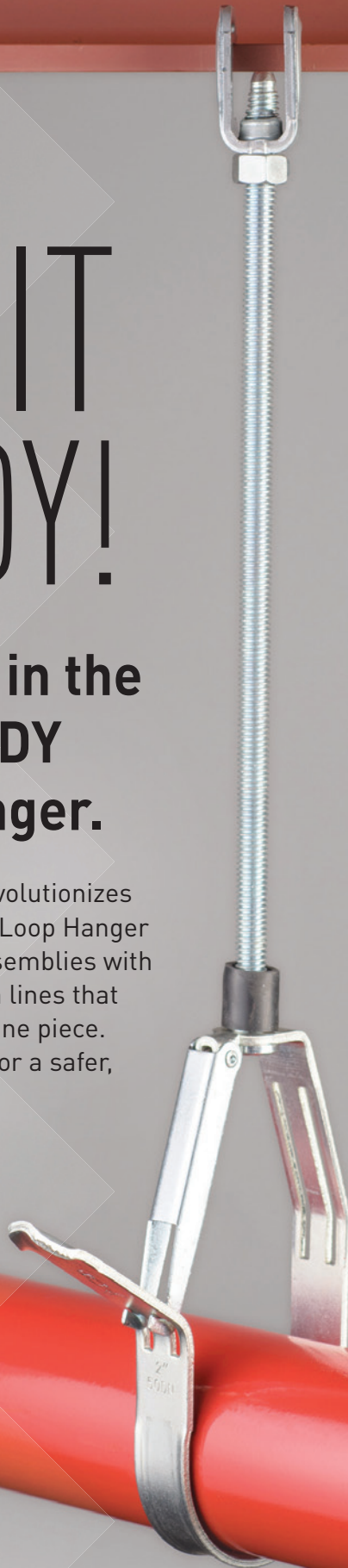


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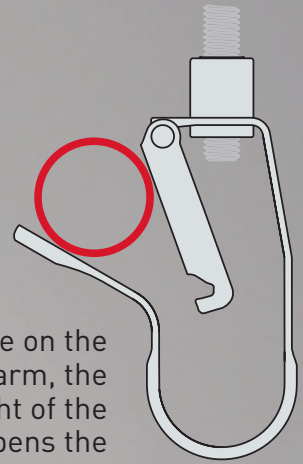
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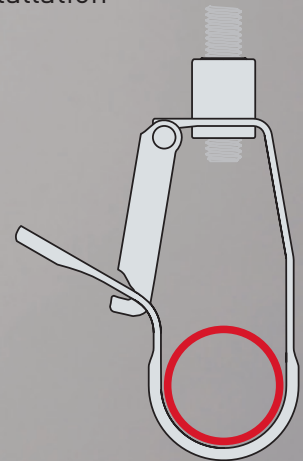
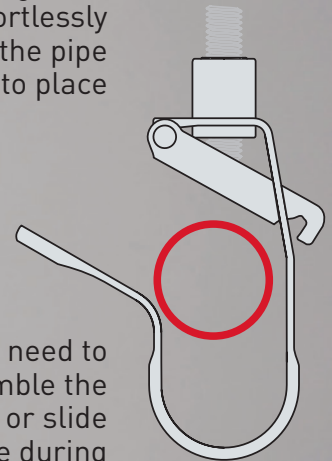
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NFSA's Quality Assurance Committee

By Victoria B. Valentine, P.E.

One of the 12 committees that reports to the NFSA Board of Directors is the Quality Assurance Committee (QAC). The scope of this committee is: *"To study industry quality control issues and make recommendations with regard to strategies for quality assurance, loss control and safety."* When discussing quality control items, it is often deemed that disseminating the information to industry stakeholders can assist in addressing the concerns by simply increasing awareness of the issues. This article will review some of the subjects discussed by QAC over the last year.

Counterfeit Sprinkler Announcements

At this time, there is no awareness of counterfeit sprinklers being installed in the United States. The manufacturers and laboratories are aware of counterfeit sprinklers in other parts of the world. The style and markings on these sprinklers are typically duplicated from listed products. However, if the user is familiar with the original product, the counterfeit can be detected. Both Underwriters Laboratories (UL) and FM Approvals (FM) publish reports, available through their websites, to make users aware of counterfeit products.

For UL, the user must sign up at: <http://ul.com/code-authorities/keeping-in-touch/ultimate-e-mail-contact-form/>. By checking the box following the form for "UL Public Notices," the user will be notified of all of UL's Public Notices. There is not a filter at this time for only fire protection products.

For FM, users would go to www.fmaprovals.com. Under customer resources, there is a tab for "news and product alerts." The product alerts include any counterfeit products found.

Unexplained Sprinkler Operations

Sprinklers operating without fire conditions can be separated into two groups: (1) explained operations - due to an incident (such as a temporary heater being located near the sprinkler) or damage while in the field (such as impact of equipment with the sprinkler or even an installation issue) and (2) unexplained operations - where insufficient data, inspection or evidence is presented to draw a solid conclusion on the reason for operation. When compared to the number of sprinklers installed each year, the number returned to manufacturer because of operation without a fire condition is low. However, precise statistics are not available to show this.

As sectors of the public have concerns about a sprinkler activation without a fire, these types of statistics could be very useful in the political arena to combat arguments that this type of operation is not common. Historically, it has been stated that 1 sprinkler in 16 million would operate due to a manufacturing defect. Yet, this number has not been recently confirmed. Through discussions with sprinkler manufacturers, the number is negligible, otherwise they would have statistics and be seeking solutions to lower unexplained operations. The fact that unexplained activations are statistically negligible reinforces the fact that

sprinklers are dependable and false operation is unlikely.

NFPA 25 - Recalled Sprinklers

Determining recalled sprinklers, as well as other recalled products, remains a challenge. It was questioned if there is a source to help people, specifically inspectors, be aware of which products or devices have been recalled so that they can be identified in the field. Since the 2013 Edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*, the spare sprinkler box is supposed to contain a list of the sprinklers installed on the property. It is rarely present in the field at this time, due primarily to the age of building stock. NFPA 25 (2014 Edition), *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, has also required that the list be created if it does not exist. This list has the potential to greatly assist with identifying recalled sprinklers within a property.

Each manufacturer maintains a list of their products that have been recalled or superseded, which is accessible through their individual websites or through their technical service departments. A

>> CONTINUED ON PAGE 16



NFSA's Director
of Engineering

Victoria B. Valentine, P.E.

proposed idea of creating a webpage with information, or links to information, from multiple manufacturers on recalled products is currently under review. One concern is that coordinating the information for fire sprinklers will not cover all of the components in the system. It was also noted that even for educated personnel, identifying the sprinklers in the field still proves difficult and sometimes they can be missed. In addition to the requirements of NFPA 25, it was raised that the International Fire Code states that the owner shall repair or replace recalled products.

Building Insulation

Instead of just verifying the conditions of a system and following the guidance of NFPA 25, some jurisdictions are questioning the ability of the antifreeze, as well as requesting to check insulation where it has been tented over wet pipes for fire protection purposes. This led to discussions on how to communicate information on properly insulating fire protection piping as the fire sprinkler contractors are not typically the ones to install the insulation.

Those who install insulation in a building may not be aware of the intricacies of protecting fire sprinkler piping from freezing. A document that could be shared with insulation personnel has been sought. It would provide cautionary information but not set criteria for how the insulation would be installed. It may also assist the AHJ with what would need to be examined. There are two separate conditions to discuss, new installations and existing systems. A document authored by Russell P. Fleming, PE and titled "FYI... Insulating Sprinkler Pipe" will be published by NFSA.

Exterior Pipe Coatings

An incident was reported with imported steel pipe where an anti-rust coating was sprayed on the outside of the pipe for protection during shipping. There was an angle on the spraying mechanism that led to the coating getting inside the pipe at one end. However, the coating was clear initially and not easily noticed. After it had been in contact with water it be-

came a whitish color, and was found upon opening the system.

The substance was brittle and broke away easily. However, there was a report done and an engineer has gone on record saying that the substance could break away and flow downstream to sprinklers. It appears that this was a known issue that was not communicated to purchasers of the pipe. At this time, the issue has only been seen with imported pipe from one distributor due to overseas shipping.

Neither UL nor FM has been presented with materials meeting this scenario. There have been four (4) other laboratories that have looked at the material analysis, noting it is a brittle substance, but they were inconclusive if a sprinkler could be blocked.

Pipe Ream

The goal of pipe reaming is to remove the rims and burrs off of a cut pipe end. There really is not consistency for reams across different pipe sizes, materials, etc. Allied Tube & Conduit did some testing through FM many years ago. The general concept from the testing was that the ream angle did not impact the hydraulics of a fire sprinkler system. The report showed the differences in the friction loss of machined pipe and reamed pipe. The hydraulic impact is minimal and well below the balancing tolerances permitted under NFPA 13.

This topic is further discussed in "Hydraulic Analysis: Cut Ends of Pipe" written by Louis Guerrazzi, EIT in this issue of **SQ**.

Glycerin and Pipe Dope Interactions

When glycerin is used as antifreeze in a fire sprinkler system, it could leak out through connections even with proper sealants such as pipe dope or Teflon tape. It was noted that the leaks are more common with brass on brass connections. Where cast iron fittings are used the seal is actually assisted by rusting of the iron over time. Some of the adapters currently being used involve rubber seals, which seem to have a tight enough connection that the glycerin cannot leak through the connection.

This issue is likely to resolve itself since the use of glycerin as antifreeze is no longer being used for new systems. It was noted that the amount of working pressure in the system can impact the probability of leaking.

CPVC Compatibility

In addition to QAC, the NFSA Engineering & Standards (E&S) Committee also discussed the topic of CPVC compatibility with other system components including any coatings on those components. A task group was formed to assist in producing an informational document that could discuss some best practices when using CPVC materials. Issue #337 (December 8, 2015) of **TechNotes** was published with this information. [A copy can be found in the "Members Only" section of the NFSA website, www.nfsa.org.]

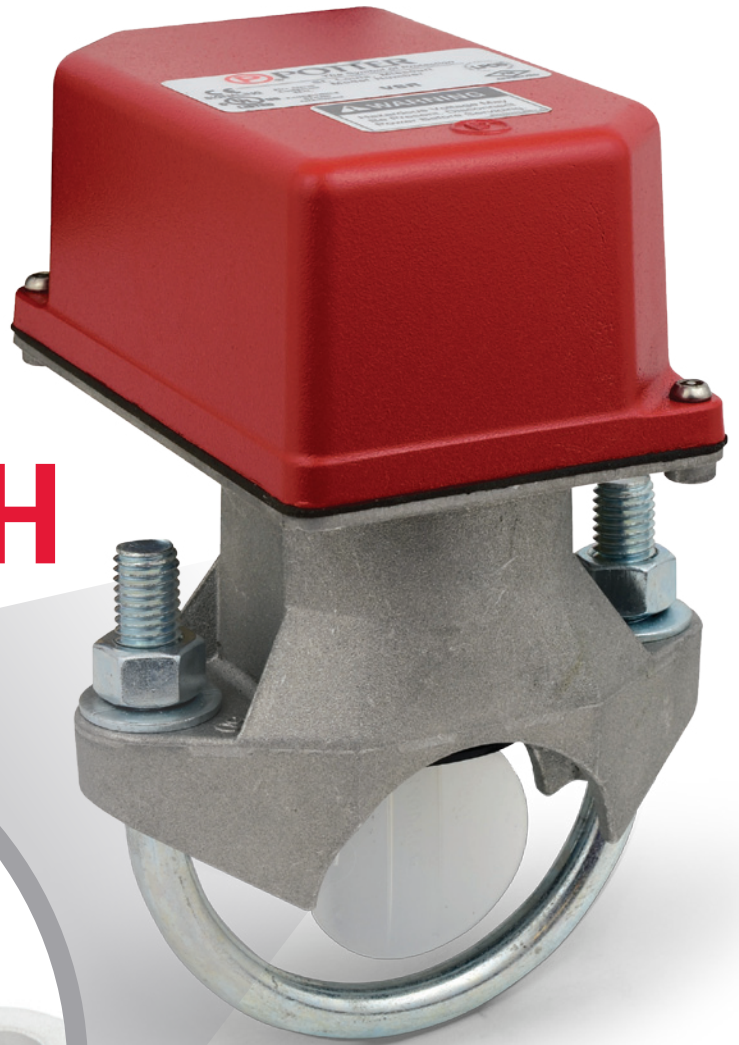
Currently, following published guidelines and documenting what information is available at the time of installation is the best approach that can be recommended when installing CPVC. Product information can be modified at any time, so users are reminded to regularly review the guidelines.

It was also noted that products seeking a compatibility listing are still struggling. The laboratories are faced with so many variables that there is concern if compatibility can truly be addressed. Nonetheless, a method to proceed is needed. Microbiological coatings, antifreeze solutions, and rust inhibitors are examples of products that need to be tested for compatibility in systems. The slow process can be attributed to making sure they are tested in a way that is meaningful for their function in the field and yet compatible with other system components.

Summary

NFSA's Quality Assurance Committee strives to discuss current events that are impacting the industry. This forum also strategizes ways to improve the conditions so that any concerns can be reduced and the good reputation of fire sprinkler systems is maintained. Recommendations are made to make progress with the issues discussed and continue installing quality systems. ①

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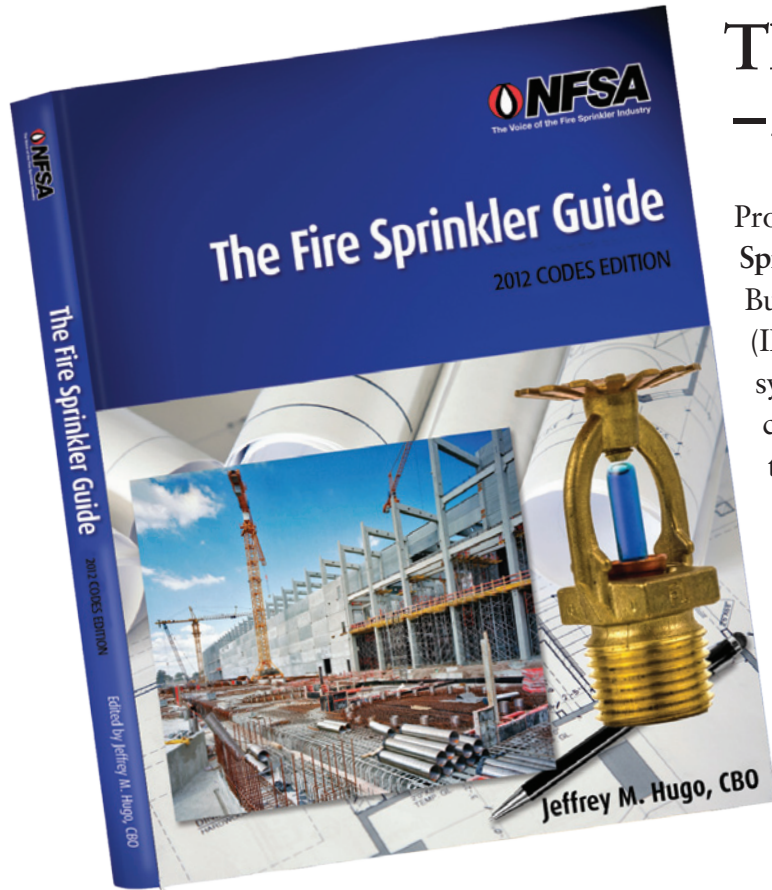
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The ICC Code Development Process for the Fire Sprinkler Industry

By Jeff Hugo, CBO

The fire sprinkler industry has deep roots in the codes and standards development process. One could say our Association was a result and a necessity of the development of the first fire sprinkler standards, starting with NFPA 13 in 1896. Code development has evolved from that same time period of city codes, to several national codes, to today, where the United States has a primary developer of codes, the International Code Council (ICC) and the primary developer of standards, the National Fire Protection Association (NFPA).

The industry will certainly benefit from becoming more familiar with the ICC because of the reach of these codes that are produced nationally and adopted at the state and local level. Past NFSA SQ articles have outlined and highlighted specific concerns and code sections for the fire sprinkler industry. However, 2016 is a huge code development year in the IFC (International Fire Code), the fire protection chapter in the IBC (International Building Code) and the IRC (International Residential Code). Many NFSA members have become members of the ICC. This article will answer many questions some of you may have on how to be more involved in the codes process.

There are many ways to become involved in the ICC. NFSA members can join their local ICC chapters and meet local code officials. Every state has building, code enforcement, plumbing, and fire code official chapters affiliated with

ICC. To find your nearest chapter, go to: www.iccsafe.org/membership/chapters/icc-chapters-and-boardstaff-liaison-map. Participation at this level will greatly assist the industry by becoming known to area code officials and to provide these individuals technical communication. No training works as well as one-on-one two-way conversation between a fire sprinkler layout technician with years of experience and a code official. This relationship will benefit both sides and will fill in the gap that the NFSA national organization cannot fill.

Local NFSA members can also be aware of code changes and proposals at the local level. Many states have state-run building commissions as well as local code commissions that administer and adopt local codes. Participation at this level is crucial. Many times, code proposals at the local level are formulated and after significant data is accrued, they are introduced at the national level. Sometimes, these type of proposals are beneficial to our industry, but other times not. Even if the local fire sprinkler member is not interested in the development or is not experienced enough on the subject to testify, it could be sent up to the local code official, NFSA chapter or even to the NFSA Public Fire Protection department for assistance. Many times we hear of code changes after the fact. Removing or revising damaging fire sprinkler changes is very difficult, expensive and slow.

NFSA members who are ICC members have a voice and a vote in the national

ICC code hearing process. In the past, if a local NFSA member or code official wanted to have a vote at a hearing, they had to travel and sit through several days of hearings. Not so much anymore. The ICC hearing process is still an in-person event of several days, but the voting on those issues is done online approximately two weeks after the on-site public hearing. A few years ago, ICC created an online place to create, collaborate and vote code changes. ICC calls this process "cdpACCESS" which stands for: Code Development Process Access. The website to access the proposals and online ballots is: www.cdpaccess.com and is open to the public. Voting privileges are only active for ICC members.

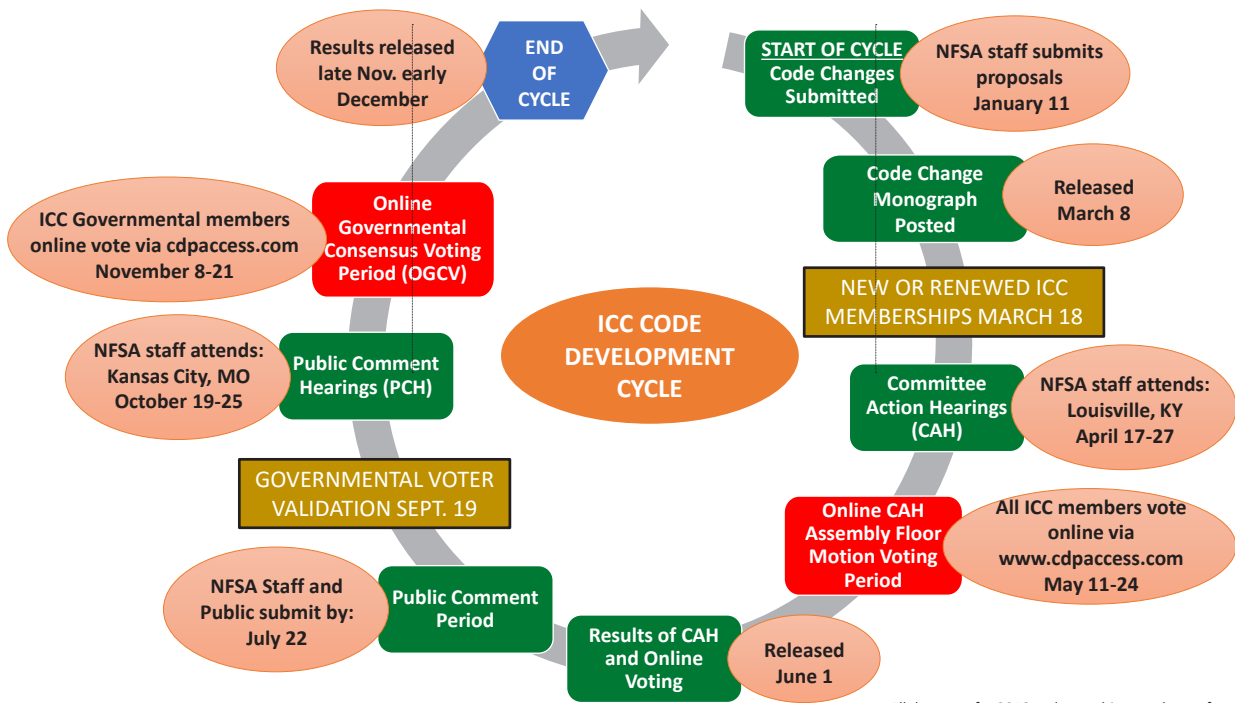
The code development process is split into cycles or groups. In 2016, Group B, covers the IFC, IRC, some of the IBC, and the IECC (International Energy Conservation Code). Participation in the process occurs at many points. NFSA has several staff members who are experienced and present at each point. However, those fire sprinkler members who want to participate by voting online will have up to two

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NFSA's Manager
of Codes

Jeff Hugo, CBO



All dates are for 2016 and are subject to change from ICC



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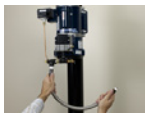
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>> CONTINUED FROM PAGE 19

voting periods to register their position.

The first online voting period is the "online assembly floor motion voting period" and is open for all ICC members. The second voting period is the "online governmental consensus vote" or OGCV and this is only reserved for those ICC members who are validated as governmental members. Fire sprinkler contractors, engineers, layout technicians, suppliers, etc. are typically not eligible to vote the second period.

The actions in the code development cycle are graphically explained in Figure 1-1, ICC Code Development Cycle.

The fire sprinkler industry has expanded its market through many years, many allies, a lot of data and unfortunately, a lot of deaths and injuries. Much of this has occurred through the code development work in ICC family of codes and NFPA 1, 101 and 5000. Our participation is critical on both sides and it needs to start at the grassroots level. Personal relationships with code officials and intimate, two-way conversations that the fire sprinkler industry has every day builds strong bridges. These relationships grow into policy changes. Please look into joining your local ICC code official chapter. If you have any questions, NFSA's Public Fire Protection department is always available to assist. ☎

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	✓ File No. J.I. 3015153	✓ File No. J.I. 3015153	✓ File No. 3033795, 3/8" and 1/2" dia. pipe hanger components for automatic sprinkler systems	✓ File No. 3033795, 3/8" and 1/2" dia. pipe hanger components for automatic sprinkler systems	✓ File No. 3038104 Pipe hanger components for automatic sprinkler systems	✓ File No. 3038104	✓ File No. 3015153	✓ File No. 3015153	✓ File No. 3042006	✓* File No. Pending
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By Vickie Pritchett

NOTES FROM THE FIRE SCENE

Allies in our Nation's Capitol and A Salute to JD!

As we prepare to move our national office to the Baltimore/Washington DC area this summer, I pause to realize the respective organizations and associations in the area and what it can mean to us being their neighbor. When you take a look at national association addresses, you quickly realize most are located close to the place where laws are made that impact us all, and if they are not located there, they have an office there. Soon, we will join that list. We believe this move will improve our ability to be actively engaged in federal legislation that impacts our industry.

One of our strongest allies is the Congressional Fire Services Institute (CFSI). NFSA has a long history with this group, largely because of **Jim "JD" Dalton**, who joined NFSA in 1993 to head up the Public Fire Protection Department. My story with JD began as he approached me after I presented at a Tennessee Fire Safety Inspectors Association conference on our local fire sprinkler adoption in 2001. He was a larger than life character to me, one that I immediately embraced and learned so much from. He declared that day that he was going to hire me and indeed he did that very thing! I am honored to have a mentor like JD, and to this day, I think of things he has shared with me on a daily basis. He understands the fire sprinkler industry inside and out and his no-nonsense let's *"get it done"* attitude is contagious. JD has just completed a two-year term as Chairman of the National Advisory Council of the CFSI. I would be

remiss to let this milestone pass us by without acknowledging both our "JD" and the CFSI.

Keep it simple is instilled in me because of JD. His ability to communicate America's fire problem and its solution, is one for the record books. I vividly recall him introducing me to Maude, Claude and the Claudettes (men, women, and children – the top three causes of fire) and the solution being that little widget called the fire sprinkler that works 24/7 365 days a year – without a vacation needed!

As I work to continue the work that JD has excelled at in Washington, DC, I will forever hear his footsteps and advice & counsel (yes, he says that he is really retiring... even as our volunteer). Jim Dalton, your legacy is one of service, advocacy, and education. We will continue to engage the politics of life safety with the hope that one day we will see our mission realized. Thank you for being you and for sharing with all of us!

Whether you are a firefighter, emergency services responder, manufacturer, supplier, contractor or fire service leader/supporter, the United States Congress is more aware of your concerns because of the CFSI. Established in 1989 as a non-profit, nonpartisan policy institute, CFSI is designed to educate members of Congress about the needs and challenges of our nation's fire and emergency services so that the federal government provides needed types of training and funding.

The CFSI has been beside us in every meeting we've had supporting the Fire

Sprinkler Incentive Act (FSIA) and also recent meetings with high-ranking administration within federal programs. We are engaged in the education process. Being in close proximity to Washington, DC will improve our ability to establish and foster relationships to support our industry.

Recently, NFSA sponsored a CFSI *"Night at the Rink"* which spotlighted the group's efforts at a Washington Capitals hockey game. NFSA President Shane Ray and I joined fire service leaders from across the nation at the event and spent some good time exploring ideas to increase our involvement and activity.

Another exciting development for us is the revival of *"Fire Team USA!"* We are planning to kick off the 2016 schedule in Minnesota with deliveries planned for eight states. Check the schedule at www.nfsa.org or www.fireteamusa.org. We want as many members as possible to be part of this grassroots education and outreach! 🇺🇸

Until next time, stay safe
Vickie



Director of Outreach
& Government Relations

Vickie Pritchett



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Less Frequent Inspections and Tests

By Jason Webb

We spend a lot of time in this column talking about the importance of the contractor hired to perform the inspections, tests and maintenance (ITM,) doing so in accordance with NFPA 25. But what about the others? Each stakeholder in the ITM process; the owner, the contractor and the authority having jurisdiction, plays an important role. What happens when one party fails to do their part? Take, for example, the requirement in NFPA 25 that the owner have certain components inspected and/or tested on a long-term frequency. If nobody points out that the time has come for these less frequent inspections and tests, who is at fault?

First, let's define what is meant by "less frequent" inspections and tests. The term frequency was first defined in the 2014 edition and means "minimum and maximum time between events." To comply with NFPA 25, many tasks must occur on a frequency of annually or less (i.e. quarterly, monthly, etc.). But with others, the frequency may be three or five years, such as full-flow testing of dry pipe valves or assessment of the internal condition of pipe. Some may stretch to 20 years, like testing of quick-response sprinklers for example, or even 50 years and beyond for the testing of some other sprinklers.

Although required by NFPA 25, the owner is sometimes unable to provide records documenting when the last time the less-frequent inspections and testing happened. Third-party products and ser-

vices are available to help not only owners but also AHJs with this problem. However, the issue still remains common.

The matter of how to address, or even if to address, the apparent lack of less frequent inspections and tests has come before the NFPA 25 technical committee several times. During the 2014 edition cycle, a proposal was made by NFSA to clarify that the owner must



have the three- and five-year frequency inspections and tests done if there were no records of them having been done. That proposal was defeated. In the 2017 edition cycle, a proposal to call out, as a deficiency, the lack of records indicating less frequent ITM was performed, was also defeated.

The concept of the ITM contractor being involved in verifying compliance is what seems to cause the most confusion.

Many AHJs assume that the ITM contractor is pointing out the lack of evidence of less frequent ITM on reports. And while some contractors are, with the technical committee, defeating proposals designed to address the issue, there exists a high level of misunderstanding. Some states do require this reporting through legislation or code amendment, but most do not.

So what does this mean to the stakeholders? For the ITM contractor, it means that documenting the lack of less-frequent ITM on an inspection report may expose them to a charge of working outside the scope of NFPA 25. The technical committee has, for the last two cycles, made it clear that the responsibility for complying with the standard falls to the owner and the job of enforcement is not that of the contractor. For the owner and AHJ, it means that they need to be especially vigilant about when to have these less frequent inspections and tests performed to ensure compliance with NFPA 25 and help keep systems in good working order. 🕒



Director of Public
Fire Protection

Jason Webb



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By Ray Lonabaugh

Attempt to Repeal Maryland's Residential Fire Sprinkler Requirement

To begin, each state may work differently in their adoption, amendment and enforcement of model building codes. Following is the Maryland story and how the Maryland Fire Service handled an attempt to repeal the state-wide residential fire sprinkler requirement for new one- and two-family dwellings.

The model building codes of the International Codes Council make up part of the Maryland Building Performance Standards. The model codes are reviewed and adopted by the state. The 23 counties and incorporated municipalities have 180 days from the state adoption to review, amend and adopt the model building codes. Local adoption allows the counties and incorporated municipalities to amend the codes to either strengthen or weaken provisions of the codes with few exceptions. There are certain code provisions, which, by law, can't be weakened by local adoption. However, residential fire sprinklers for new one- and two-family dwellings was not one of them.

Maryland has a residential fire sprinkler requirement for new townhouses dating back to 1992. The move by the Maryland Fire Service to include new one- and two-family dwellings was progressing through the state and by the year 2012 there were 14 counties and over 94 incorporated municipalities, including the City of Baltimore, with a residential fire sprinkler requirement for new one- and two-family dwellings. In 2012, the decision was made by the Maryland Fire Service to close the gap to include the remaining nine

counties and incorporated municipalities. The decision was based on the existing areas in Maryland where there were no fatalities in a residential fire where residential fire sprinklers were present. The Maryland Fire Service went to work and had cross-filed companion legislative bills HB-366 and SB-602 introduced and supported in the State House of Delegates and Senate.

HB-366 was introduced by Delegate James E. Malone Jr. on January 30, 2012 and SB-602 was introduced by Roy P. Dyson on February 3, 2012. The bills, known as "Building Performance Standards - Automatic Fire Sprinkler Systems," disallowed the removal of the residential fire sprinkler requirement in the International Residential Code as adopted by the State of Maryland.

The bills moved swiftly through committee with favorable votes and signed into law by then Governor Martin O'Malley on May 2, 2012, with an effective date of October 1, 2012.

The State of Maryland had adopted the 2012 International Building Codes with an effective date of January 1, 2012. The counties and incorporated municipalities had 180 days from the state adoption to review, amend and adopt the model building codes. This meant local adoption had to be completed by July 1, 2012. Since the effective date for the local disallowance of amending out the residential fire sprinkler requirement was October 1, 2012, this allowed the counties and municipalities to amend out the residential sprinkler requirement for one- and

two-family dwellings in their adoption of the 2012 model building codes. Maryland would not see total state-wide compliance for residential fire sprinklers until the adoption of the 2015 Edition of the International Residential Building Code.

Final state-wide compliance with the residential fire sprinkler requirement in the International Residential Building Code was realized with the adoption of the 2015 edition of the IRC on July 1, 2015. A push back on the residential fire sprinkler requirement surfaced in Caroline County on the Eastern Shore of Maryland in August 2015.

In the fall of 2015, a Caroline County Commissioner mentioned that he intended to discuss the residential fire sprinkler issue at an October meeting with state legislators. Opposition to the fire sprinkler requirement was said to be based on cost that has slowed new home construction on the Eastern Shore. It was unknown if the actual slowdown was in permit applications or actual home construction. In the past, contractors would pull construction permits prior to the effective date of the fire sprinkler mandate in order to relieve them of the requirement.

>> CONTINUED ON PAGE 30



NFSA Mid-Atlantic
Regional Manager

Ray Lonabaugh

>> CONTINUED FROM PAGE 29

During a Wicomico County Council Meeting on November 17, 2015 in Salisbury on the Eastern Shore, Maryland Delegate Chris Adams advised the Council that he intended to introduce a bill to return local control of building requirements that are currently mandated by the state. The Delegate said his bill was not just about fire sprinklers for new one- and two-family dwellings. The delegate went on to say that he didn't oppose fire sprinklers but wanted to return to local control and home buyer's choice. However, on November 30, 2015 a pre-filed bill that specifically mentioned repealing the residential fire sprinkler requirement in the Maryland Building Performance Standards was unveiled. The bill would remove the prohibition against removal of the fire sprinkler requirement for new one- and two-family dwellings by the counties and local incorporated municipalities in their adoption of the state adopted model building codes.

On January 13, 2016 House Bill 19 was introduced for the repeal of the required adoption of the residential fire sprinkler

requirement in the International Residential Code, but would require the home builder to offer the installation of a residential fire sprinkler system as an option. Upon first notice in November 2015 by Delegate Chris Adams that he intended to introduce legislation to repeal the fire sprinkler requirement, the Maryland State Firemen's Association (MSFA) and the Maryland State Fire Marshal immediately set out to halt any such legislative attempt. The MSFA and the State Fire Marshal were invited to attend, as always, the December 15, 2015 meeting of the NFSA Capital Region Fire Sprinkler Association (CRFSA), which they did. The CRFSA made a decision to support the firefighters and the State Fire Marshal. On the advice of John Steele, Senior Director for State & Government Affairs for TYCO, Maryland Lobbyist Kevin O'Keefe was hired. On February 16, 2016, an Environment and Transportation Committee hearing on HB 19 for the repeal of the required adoption of the residential fire sprinkler requirement in International Residential Code was conducted in Annapolis, Maryland. Needless to say, the

Maryland Fire Service came out strong against the bill. The hearing went on for several hours. There were several panels organized to speak against the bill. The panels included the Maryland Fire Service, Burn Center Doctors and Nurses, Burn Survivors as well as Sprinkler Installers to rebut the usual unfair cost estimates. Also, a television news clip was featured that portrayed the making of a video, "Fire Sprinklers Save Lives - A Maryland Story," about the aftermath effects on family members following the Anne Arundel County Mansion Fire. The clip featured Sher Grogg, Common Voices newest advocate, who lost her brother, sister-in-law and three nieces and a nephew in a catastrophic Maryland home fire in 2015. The home was built prior to an adopted residential fire sprinkler requirement. It was our understanding that Delegate Chris Adams, the bill's sponsor, was asked if he wanted to withdraw the bill; however, he declined. On March 14, 2016 HB19 received an unfavorable report by the House Environmental and Transportation Committee. The HB19 is dead! 

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The National Fire Sprinkler Association

BUYER'S GUIDE 2016

FEATURING THE BEST OF THE BEST
OF THE FIRE SPRINKLER INDUSTRY

The Association would like to acknowledge the commitment and support it has received from its SAM (Supplier and Manufacturer) members. Each company listed in the Buyer's Guide has demonstrated their dedication to the fire sprinkler industry by joining in the Association's goal to provide fire sprinkler protection where people live, work and play. Special recognition is also given to the member companies and their representatives who make up the SAM Council.

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Lubrizol Advanced Materials

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Fire Protection Products, Inc.

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System Sensor

Bob Knose
Ferguson Fire and Fabrication

Cary Nicol
Viking SupplyNet

Cary Wiley
Apollo Valves/Conbraco Industries, Inc.

AGF Manufacturing, Inc.

100 Quaker Lane
 Malvern, Pennsylvania 19355
 Phone: 610 240-4900
 FAX: 610 240-4906
 Website: www.testandrain.com

Founded:
 1986

Primary Products/Services:
 Inspector's Test and Drain Valves and Accessories

Market Area:
 International

Hours of Operation:
 8:30 a.m. - 5:00 p.m. EST Mon.-Fri.

Management:
 James McHugh
 George McHugh IV

Sales Contact:
 James McHugh

Company Profile:
 AGF Manufacturing, Inc. revolutionized the fire sprinkler industry with the Model 1000 TESTanDRAIN® single valve inspector's test which eliminated the time and space consuming traditional loop assembly. Since then, TESTanDRAIN® valves have been installed in countless systems throughout the world and AGF continues to introduce innovative new products such as INSPECTOR'S TEST®, REMOTEST® and Commercial and Residential RISERPACK®. TESTanDRAIN® valves are now made in more styles, in more sizes and with more orifice options than any other valve on the market. In 2010 AGF introduced COLLECTanDRAIN, a unique dry system condensate detection and drainage device, solving a problematic area found on nearly all dry systems. All AGF products are manufactured to the highest quality and meet or exceed ISO 9002 standards. AGF valves are UL Listed and FM Approved.



Accu-Fire Fabrication, Inc.

8 Progress Drive
 Morrisville, Pennsylvania 19067
 Phone: 215.428.2400
 Toll-Free: 800.641.0005
 FAX: 215.428.0355
 Website: www.accufire.com

Founded:
 1991

Primary Products/Services:
 Fire Sprinkler Fabrication & Supply

Market Area:
 Northeastern US

Hours of Operation:
 7:00 a.m. - 5:00 p.m. Mon.-Fri.

Management:
 Deandra Murphy, President
 Vince Murphy, VP, Operations
 Dan Boice, Sales Manager
 Mike Stango, VP, Sales

Sales Contact:
 Michael Murphy, Sales Rep
 Tel: 215.858.2508
 Mike Stango, VP, Sales
 Tel: 215.260.4400

Company Profile:
 Since its inception in 1991, Accu-Fire remains a family owned and operated business. We are dedicated to providing superior fabrication and unparalleled service to our customers. We have a 75,000 sq. ft facility with six acres of pipe inventory. All products are delivered on our trucks equipped with either a 65 foot knuckle boom or rear mounted fork lift. In addition to fabrication, Accu-Fire is a full service supplier of fire sprinkler devices. Visit www.accufire.com for product affiliation. AccuFire is an approved Women's Business Enterprise.

Aegis Technologies, Inc.

319 Circle of Progress Drive
 Pottstown, Pennsylvania 19464-3811
 Phone: 610.676.0300
 FAX: 610.676.0383
 email: tclark@aegistechnologiesinc.com
 Website: www.aegistechnologiesinc.com

Founded:
 2007

Primary Products/Services:
 Manufacturer of Specialty Fire Protection Fittings

Market Area:
 Worldwide

Hours of Operation:
 7:00 a.m.-4:00 p.m. EST

Management:
 Erik T. Jensen, President
 Theodore R. Jensen, Exec V.P.
 Terry F. Clark, V.P. - Sales
 Michael D. Ketterer, V.P. -Engineering

Sales Contact:
 Terry Clark, V.P. Sales

Company Profile:
 Founded in 2007 by the Jensen family, Aegis

Technologies and its shareholders are not new to the fire sprinkler industry. Over the past 40 years and as former owners of Allied Piping Products and Merit Manufacturing, the Jensen's and their partners have historically developed and manufactured innovative, labor-saving products for the fire sprinkler industry. We pioneered the lightweight welding outlet fittings and adjustable drop nipples under both the Allied and Merit names for the fire sprinkler markets. Aegis continues this tradition.

Made in the USA – Today, many fitting manufacturers seek to improve their profit margins by transferring technology and manufacturing offshore. Here at Aegis Technologies, we are committed to developing domestic manufacturing techniques to produce quality pipe fittings at competitive prices with fair returns, contributing to the strength of our country's economy.

The Adjuster Drop Nipple, Dropster Reducing Nipple, and Branchlet Welding Outlet are the results of our 30+ years of experience producing fittings for the fire protection industry.

Aegis experience:

Quality – Products produced on state-of-the-art American-made equipment that holds tighter tolerances than our counterparts' machinery.

Quality Assurance – As part of our quality system, ferrous and elastomeric material lots are checked by independent laboratories over and beyond the UL and FM scope. Each fitting is marked with a lot number that is matched to specific "ship to" addresses, as well as detailed material and production quality records.

Value – With advanced manufacturing techniques and quality processes, we're able to produce a superior, American-made fitting at a competitive price.

We trust that our company's philosophy and product features will serve you well.

AFCON

P.O. Box 3365
 South El Monte, California 91733
 Phone: 626.444.0541
 FAX: 626.444.3887
 Email: info@afcon.com
 Website: www.afcon.org

Founded:
 1952

Primary Products/Services:
 Pipe Hanger Products, Sway Braces, Software

Market Area:
 Worldwide

Hours of Operation:
 7:00 a.m. - 3:30 p.m. Mon.-Fri.

Company Profile:
 Dozens of patented products to facilitate and

enhance the installation of pipe hangers and sway braces. Afcon ZOI® Sway Brace Software is intuitive.

American AVK Company

2155 Meridian Boulevard
Minden, Nevada 89423
Phone: 775.552.1400
FAX: 775.783.1031
Email: roe.dr@avkus.com
Website: www.americanavk.com

Founded:
1985

Primary Products/Services:
Valves and Hydrants

Market Area:
North and South America

Hours of Operation:
8:00 a.m.-5:00 p.m.

Management:
Al Jurkonis, President
Michael Chambon, Director, Business Development

Sales Contact:
David Roe, Business Unit Mgr, Fire Protection
Tel: 775.552.1430
Email: roe.dr@avkus.com

Company Profile:

American AVK is a leading US manufacturer of gate valves, fire hydrants and accessories for the water, wastewater, fire protection and irrigation industries.

AVK was one of the first valve manufacturers in the world to develop and design the Resilient Seated Gate Valve. AVK is at the forefront of technology for products serving the Water Works and Fire Protection Industries. American AVK was incorporated in 1985 to introduce AVK gate valves to North America. AVK is located in a state-of-the-art 180,000 sq. ft. manufacturing facility in Minden, Nevada. American AVK is a subsidiary of the AVK Group of Companies, a global manufacturer of valves, hydrants and accessories for the Water Works, Waste Water, Fire Protection and Natural Gas Industries.

Amtrol, Inc.

1400 Division Road
West Warwick, Rhode Island 02893
Phone: 401.884.6300
Fax: 401.884.5276

Management:
Wolfgang Neumann, Product Manager

Anvil International

2 Holland Way
Exeter, NH 03833
P: 603-418-2800
F: 603-418-2866
T: 800-301-2701
Website: www.anvilintl.com

Founded:
1850

Primary Products/Services:
Grooved couplings, fittings, valves, pipe hangers, supports, seamless pipe nipples, malleable, cast iron and forged steel fittings

Market Area:
International

Hours of Operation:
8:00 a.m.-5:00 p.m., Mon.-Fri.

Management:
Mitch Bevill, Director of Fire Product Sales-East
Brian Reef, Director of Fire Product Sales, West
Phil Schechinger, V.P. International & Fire Products

Sales Contact:
Debi Skyberg, National Inside Sales Manager
Tel: 708.885.3000
Fax: 708.534.5441

Company Profile:

Anvil offers an unmatched range of domestic and globally-sourced products for Fire Protection Piping Systems. Products are UL/ULC listed and FM Approved, and are available in a full range of styles and functionality, including: Gruvlok® Grooved Couplings, Fittings & Flanges, Gruvlok® Valves, Gruvlok® Roll Groovers, SPF™ Grooved Couplings, Fittings & Flanges, Anvil Cast Iron & Malleable Iron Threaded & Flanged Fittings, SPF™ Steel Pipe Nipples, Merit® Tee-lets, Drop Nipples & Steel Welding Flanges, SPF™ O-lets, Anvil Pipe Hangers & Support & All Thread Rod, Anvil-Strut™ & Strut Fittings, Mueller® Valves and Indicator Posts. Anvil's NAP brand manufactures fabrication equipment to include automatic welders, plasma cut-off and hole cutting equipment, make-on machines and pipe threaders. Anvil combines the latest technology and most current fire protection ratings with the trusted history and manufacturing experience that have made Anvil the go-to source for fire protection and piping products for more than 165 years. That means better performance and better service for you and your business.

APEX Pumping Equipment, Inc.

720 Heartland Drive, Unit P
Sugar Grove, Illinois 60554
Toll Free: 866.563.2739

FAX: 630.466.4499
Website: www.262apex.com

Founded:
1996

Primary Products/Services:
Fire Pumps and related equipment and repairs

Market Area:
Upper Midwest

Hours of Operation:
Mon.-Fri. 8:00 a.m.-5:00 p.m.

Management:
Brad Clemmons, President
Vince Rodriguez, Vice President & Service Manager
Steve Holzkopf, Office Manager

Sales Contact:
Steve Holzkopf
email: steve@262apex.com

Company Profile:

Established in 1996, we have grown to represent many of the products found in the fire pump room, like backflow devices to air release valves to fire water storage towers and tanks above and below, not to mention our original focus of fire pumps and repairs. We have grown to include Illinois, Iowa, Minnesota, Wisconsin and Indiana for many of our products. "We Supply Solutions" for your simple fix to complex, difficult issues. With over 200 years of experience, we have seen it all! Perhaps you have a new challenge for us!

Apollo Valves/Conbraco Industries

PO Box 247
Matthews, North Carolina 28106
Phone: 704.841.6000
FAX: 704.841.6021

Primary Products/Services:
Flow Controls-Ball Valves, Backflow Preventers

Market Area:
Worldwide

Hours of Operation:
7:30 a.m.-5:30 p.m. EST, Mon.-Fri.

Management:
Pete Chapman, General Manager, Backflow Prevention
Cal Mosack, Executive Vice President, Sales & Marketing
John Wells, Director, Sales Administration
Sean Perry, Technical Sales Manager

Sales Contact:
Pete Chapman, Gen. Mgr., Backflow Prevention
Phone: 704.841.6066

Company Profile:

Apollo Valves/Conbraco Industries- Employing 1,200 people to manufacture and market MADE IN AMERICA valve products. Featuring UL/FM Backflow Preventers, UL Ball Valves, UL 300# pressure and relief controls. Introducing the new Stainless Steel 4A / 4An DC, DCDA, RPZ, and RPDA assemblies in 2 1/2"-8" sizes, featuring light weight SS, short lay lengths, vertical & horizontal approvals, low flat pressure loss performance with mix/match grooved butterfly, or OS&Y, or Post Indicator shutoffs for ease of installation in any fire protection application, and the new UL/FM approved carbon and stainless steel Apollo XPress for Fire Protection Systems.



ARGCO

5816 Dryden Place, Suite 101
 Carlsbad, CA 92008
 Phone: 760.727.1644
 Toll-Free: 800.854.1015
 FAX: 760.727.3270
 Website: www.argco.com

Founded:
 1981

Primary Products/Services:
 Fire Sprinkler Specialties, Fire Equipment, Piping Tools, Thread Sealants, Hangers & Fasteners, Pipe Joining

Market Area:
 International

Hours of Operation:
 6:00 a.m.-4:00 p.m. PST, Mon.-Fri.

Management:
 Frank Bishop, Sales Manager
 Lawrence Kent, Sales
 Buck Eilers, Sales
 Woody Witwer, Sales

Sales Contact:
 Frank Bishop, Sales Manager
 Phone: 800.854.1015
 FAX: 800.924.5922

Company Profile:
 2016 marks ARGCO's 35th year serving the Fire Sprinkler industry. Starting with hard-to-find escutcheons and wall plates, ARGCO continues to expand its line. Top selling pipe thread sealants, a full line of hangers and fasteners, ARGCO's own line of quality tools and replacement parts, fire protection valves, grooved couplings and fittings, threaded fittings, and much, much more.

AutoSPRINK (Div. of M.E.P. CAD, Inc.)

181 N Arroyo Grande Blvd Suite 105
 Henderson, Nevada 89074
 Phone: 877.418.8526
 FAX: 702.566.0598
 Website: www.autosprink.com

Founded:
 1997

Primary Products/Services:
 3D Sprinkler Design Software

Market Area:
 National and International

Hours of Operation:
 6:30 a.m.-5:00 p.m. PST, Mon.-Fri.

Management:
 Kevin Maddux, President
 Adam Bonaldi, V.P., Business Development

Sales Contact:
 Amanda Vinson, Sales Administrative Assistant
 Tel: 877.418.8526 x301
 FAX: 702.566.0598
 Email: a.vinson@mepcad.com

Company Profile:
 AutoSPRINK is the most user-friendly, true 3D and BIM compliant fire sprinkler design program available today. It does not require Revit or AutoCAD training. Its simple windows-based format is so intuitive, new users can design, do hydraulic calculations and stock list a complete project after only one week of training.

Backflow Direct

3290 Monier Circle, Ste 300
 Rancho Cordova, CA 95742
 Tel: 916.760.4524
 Email: sales@backflowdirect.com
 Website: www.backflowdirect.com

Founded:
 2012

Primary Products/Services:
 Stainless Steel Backflow Preventers & Butterfly Valves

Market Area:
 U.S.A.

Hours of Operation:
 8:00 a.m.-5:00 p.m. Mon-Fri

Management:
 Doug Powell, CEO
 Kent Powell, CFO

Sales Contact:
 Brad Scott, Dir. of Sales & Mktg

Tel: 916.760.4524
 Email: brad@backflowdirect.com

Company Profile:

Backflow Direct was established in 2012 to design and manufacture a revolutionary backflow prevention product line it would later call the Deringer. The Deringer product line is now the smallest, lightest, most economical, best-performing and only all-stainless steel backflow prevention valve...and yes it is built in the USA. Backflow Direct was founded by the Powell family, previous owners of Ames Company and Hunter Innovations, creators of the Silver Bullet, Colt and Maxim backflow prevention product line. This ownership, for more than 35 years, has been responsible for the introduction of every major design and marketing advancement in the backflow industry. Such advancements include single-body housing, fabricated valve housing, stainless steel construction, large diameter single-access port, differentially loaded check, independent check module, butterfly shut off valve, always resulting in shorter, lighter and better performing products. Backflow Direct is introducing the Deringer line with a radical and game-changing marketing strategy; selling our products directly to contractors, installers and testers... our customers.



BlazeMaster® Fire Sprinkler Systems – Lubrizol

9911 Brecksville Road
 Cleveland, Ohio 44141
 Phone: 216.447.5000
 Toll-Free: 888.234.2436
 FAX: 216.447.5750
 Website: www.blazemaster.com

Founded:
 1984/Lubrizol founded 1928

Primary Products/Services:
 BlazeMaster® Fire Sprinkler Systems

Management:
 Darren Tuel, Global Market Segment Manager
 Mark Knurek, Business Manager
 Amanda Rae, Marketing Manager – North America
 Connect with us at:
www.blazemasterblog.lubrizol.com
www.blazemaster.com

Company Profile:
 BlazeMaster® Fire Sprinkler Systems have a

proven history of performance as a cost effective alternative to metal piping systems featuring fast, easy installations, superior corrosion resistance and low flame and smoke characteristics. Since the product was introduced in 1984, more than two billion feet of BlazeMaster® pipe have been installed in more than 60 countries, making it the most specified non-metallic fire sprinkler system in the world. BlazeMaster® pipe and fittings are accepted for use in all three major model codes and meet National Fire Protection Association NFPA 13, 13D and 13R sprinkler standards.

Buckeye Fire Equipment

1170 Corporate Dr W Ste 201
Arlington, Texas 76006
Phone: 817.633.3626
FAX: 817.633.5884



BuildingReports

1325 Satellite Blvd. Ste 1607
Suwanee, Georgia 30024
Tel: 770.495.1993
FAX: 770.495.9331
Website: www.buildingreports.com

Founded:
1999

Primary Products/Services:
Inspection and compliance reporting software

Market Area:
Worldwide

Hours of Operation:
8:00 a.m.-5:00 p.m. EST Mon-Fri.

Management:
Brett Brewster, CEO & Co-Founder
Jason Kronz, CTO & Co-Founder
Dwight Wills, V.P., Sales & Marketing
Chris Dispain, V.P. Member Services

Sales Contact:
Dwight Wills, V.P., Sales & Marketing
Tel: 770.495.993 x304
FAX: 770.495.9331
Email: sales@buildingreports.com

Company Profile:
Building safety compliance is critical to service companies, building owners and fire and safety officials who are charged with safeguarding

occupants. BuildingReports' mobile and online inspection reporting tools enable inspectors to quickly gather data on fire and life safety devices to ensure they are working properly and meet code requirements or identify actions needed to meet compliance through easily verifiable inspection reports. With more than 160 million inspected devices to date, over 450,000 buildings represented and over 700 inspection companies in its network, BuildingReports has earned its reputation as the trusted name in compliance reporting.



Bull Moose Tube

1819 Clarkson Road
Chesterfield, Missouri 63017
Phone: 636.537.2600
email: scott.morris@bullmooseindustries.com

Founded:
1962

Primary Products/Services:
Sprinkler Pipe

Market Area:
North America

Hours of Operation:
8:00 a.m.-5:00 p.m. M-F

Management:
Michael Blatz, CEO
Ted Shultz, CFO
Matt Harper, EVP, Business Development
Scott Morris, EVP, Marketing

Sales Contact:
Dave Weinrich, Director of Sales
Phone: 636.537.2600
email: dave.weinrich@bullmooseindustries.com

Company Profile:
Bull Moose was founded in 1962, building right from the start on such core values as reliable quality, stable production and exemplary service. The following decades saw Bull Moose Tube grow from a single plant in Missouri to eight production operations from coast to coast. Those far-reaching facilities enable us to be particularly well positioned for responsive service that sets the standard for the industry.

Bull Moose Advantages:

- UL listed (US & Canada) and FM Approved.
- ASTM A135 and A795 Type E. Grade A Certified.
- Complies with NFPA 13, 13R and 14.
- Industry-leading hydraulic characteristics.
- CRR of 1.0 and greater.

- All pipe NDT weld tested
- We have the most stocking locations in the industry, for best delivery and availability.
- Plain end or roll groove.
- EddyGuard II® bacterial resistant internal coating.
- Custom Length Options.
- Hot dipped galvanization
- Reddi-Pipe® red pipe to eliminate field painting.
- Compatible for use in wet, dry, preaction and deluge sprinkler systems.

For more information, go to:
www.bullmoosetube.com

C-Aire Compressors

2620 Fox Street
Orono, Minnesota 55391
Phone: 651.462.3440
Contact: Jason Hedeem
Website: www.c-aireinc.com



Chicago Backflow, Inc. aka CB Marketing

12607 S. Laramie Avenue
Alsip, Illinois 60803
Phone: 708.389.5600
Email: dsmith@backflow.com
FAX: 708.389.5632
Website: www.backflow.com

Founded:
1993

Primary Products/Services:
Backflow Prevention Service, Testing, Installation and Inspection

Market Area:
Northern Illinois and Northwest Indiana

Hours of Operation:
8:00 a.m. - 4:30 p.m. Mon.-Fri.

Management:
Donald J. Smith, President
Michael D. Eisenhauer, Vice President

Sales Contact:
Barb Jonas, Office Manager
email: contact@backflow.com

Company Profile:
Chicago Backflow, Inc. is the Premier Backflow Testing Company. We have been serving Northern Illinois and Northwest Indiana since 1993. We are

dedicated to protecting your drinking water. Offering full-warranty backflow testing & service. Any and all repair parts, labor and return trips are covered. Never worry about costly repairs to your backflow preventer. We carry over \$400,000 in inventory parts and are available 24/7



CB Marketing, Inc. (A CBI Company)

12559 South Laramie Avenue
Alsip, Illinois 60803
Phone: 708.202.0033
FAX: 708.385.5415
Website: www.cbmarketing.com

Primary Products/Services:

Mfg of 13D pumps and Mfg Representatives of specialty products for fire protection

Market Area:

Nationally for 13D Pump Systems

Hours of Operation:

8:00 a.m.-4:30 p.m. Mon.-Fri.,
24/7 emergency service

Management:

Donald J. Smith, President,
Michael Eisenhauer, Vice President
Megan Demereckis, Product Manager.
Nick Smith, Sales Representative

Sales/Quote Contact:

Megan Demereckis or Nick Smith

New Product Opportunities:

Donald J. Smith
Phone: 708.202.0033
FAX: 708.385.5415

Company Profile:

CBM designs and manufactures Legend 13D pumps and serves as a manufacturers' rep and service organization for Patterson Fire Pumps, Fire Pump Controls (Master and Others), Steel Water Storage Tanks, pressure vessels and polypropylene 13D tanks, The CBM group also handles fire pump control replacements and repairs. CBM specializes in new product launches and market recaptures for the principals we represent.



Clarke Fire Protection Products, Inc.

100 Progress Place
Cincinnati, Ohio 45246

Phone: 513.475.FIRE
Website: www.clarkefire.com
Email: mmathes@clarkefire.com

Founded:
1964

Primary Products/Services:
Diesel Engine Fire Pump Drivers

Market Area:
Global

Hours of Operation:
24/7

Management:
Dane Petrie – President and CEO
Justin Strousse – Director of Global Sales
Ken Wauligman – Engineering Manager
Brandon Cushman – Production Manager

Sales Contact:
Mike Mathes, United States and Canada Dealer
Marketing Manager
Email: mmathes@clarkefire.com

Company Profile:
Clarke Fire Protection Products is the global leader in the manufacture of UL/FM diesel fire pump drivers, meeting NFPA20 and country-specific requirements. Products include the pressure-limiting driver (PLD) and Tier 3 EPA-certified engines. Manufacturing locations are Cincinnati, Ohio and Coatbridge, Scotland.

Thank you for considering us for your fire protection needs and if you would like any additional information, please visit our website at www.clarkefire.com. Thank you!

Complete Pump Service Co., Inc.

461 South Irmen Drive
Addison, Illinois 60101
Phone: 630.628.1600
FAX: 630.628.1709
Website: www.completepump.com

Founded:
1964

Primary Products/Services:
Fire Pump Testing/Service on all Water Application Pumps

Hours of Operation:
7:00 a.m.-4:30 p.m. w/ 24 hr. emergency service

Management:
Richard D. Ficarra, Jr., President
Laura Ficarra Allen, Treasurer

Sales Contact:
Rich Ficarra, President
Phone: 630.628.1600 ext. 107
FAX: 630.628.1709

Company Profile:

Complete Pump Service Company offers 24 hour emergency service and experienced repair of all makes of water application pumps. Complete Pump performs annual fire pump testing. They are authorized representatives for Talco Residential Fire Pumps and also sell fire pump accessories. Complete Pump Service Company's success is based on good, honest service.



Croker Division

Fire-End and Croker Corporation
7 Westchester Plaza
Elmsford, New York 10523
Phone: 914.592.3640
Toll Free: 800.729.3473
FAX: 914.592.3892
Website: www.croker.com
Email: info@croker.com

Founded:
1911

Primary Products/Services:
Fire Protection Equipment

Market Area:
Domestic/International

Hours of Operation:
M-F 8:30 a.m.-4:30 p.m.

Management:
Paul Sposato, President
Douglas Loew, VP Export Sales
Peter Levine, National Sales Manager
Sales Contact:
Peter E. Levine, National Sales Manager

Company Profile:

For over 105 years, Croker has manufactured and supplied the highest quality Fire Hose Standpipe Equipment available in the industry. Croker continues to be an industry leader in quality products as well as dependable service. Our Croker catalog provides building owners, architects, engineers, distributors and contractors with a clear comprehensive specification and purchasing reference guide second to none. Our main warehouse is located in Elmsford, New York. We maintain inventory in Dallas, Texas; Detroit, Michigan; Miami, Florida; Cleveland and Cincinnati, Ohio; Fountain Valley, California; Louisville, Kentucky; Ashland, Virginia and Wilmington, Delaware.

The Croker product line includes Hose Valves, Pressure Regulating Valves (Pilot, Field Adjustable and Factory Set), Fire Department Connec-

tions (Flush, Exposed, Freestanding and Storz), Fire Pump Test Connections, Roof Manifolds, Rack & Reel Assemblies, Cabinets, Extinguishers, Nozzles, Adapters, Inspection & Testing Equipment and much more. New Products include a complete Grooved Coupling Line, High Pressure FDCs & UL Listed Storz Connections. Because our equipment is critical for the protection of lives and property, we are continually striving to maintain and improve product quality year after year. This has been our mission since 1911. Choose Croker for the finest quality products, competitive pricing and exceptional service.

BRANCH OFFICE AND REGIONAL WAREHOUSES:

Croker Texas

1110 South Airport Circle-Suite 110
Euleuss, Texas 76040
Phone: 817.354.9900
Toll Free: 877.354.9905
FAX: 817.545.0055
Max Lombard, Regional Sales Manager
Jake Lombard, Warehouse Manager

Croker Ohio

4690P Interstate Drive
Cincinnati, Ohio 45246
Phone: 513.870.0517
FAX: 513.870.0363
Bob Orth, Regional Sales Manager
Jerry Hutchinson, Warehouse Manager

Croker Florida

13605 SW 149th Ave, Suite 6
Miami, Florida 33196
Phone: 954.423.8820
Leon Benlolo, Regional Sales Manager

Croker California

18436 Bandilier Circle
Fountain Valley, California 92708
Toll Free: 888.773.3473
FAX: 888.713.3473
Gary Moe, Regional Sales Manager



CST Storage

903 E 104th Street
Suite 900
Kansas City, Missouri 64131
Phone: 913.621.3700
FAX: 913.621.2145
Website: www.cst-storage.com

Founded:
1893

Primary Products/Services:
Fire Protection Storage Tanks

Market Area:
Global

Hours of Operation:
8:00 a.m.-5:00 p.m. Mon.-Fri.

Management:
Eric Carson, V.P. Storage Sales
Weston Opat, Central Reg. Sales Mgr.

Sales Contact:
Weston Opat
Telephone: 913.535.4168
email: wopat@cst-storage.com

Company Profile:

CST is the leading provider of factory-coated fire protection water tanks. With over 250,000 liquid storage tanks in over 120 countries since 1893, we have the experience, products and engineering to meet our customer's needs. CST's factory applied proprietary coating technologies are the best in the business and have been field proven for more than 50 years. CST leading brands; Aquastore, HydroTec and Columbian TecTank, meet or exceed NFPA 22, FM, LPS, AWWA, USACOE and other industry standards and are manufactured in ISO 9001:2008 certified facilities. Tanks are available for construction by customer, dealer or CST with or without accessories. www.cstindustries.com

Decoshield Systems, Inc.

1500 NW 3rd Street, Suite 105
Deerfield Beach, FL 33442
Phone: 800.873.0894
Fax: 800.585.3894
Email: info@decoshield.com
Website: www.decoshield.com

Management:
Linda Camm, President

Company Profile:
The DecoShield® Systems can be used in new construction or in existing buildings to cover unsightly piping, cables, conduits, etc.

Our experience and total dedication to the fire sprinkler retrofit industry has equipped us to help you in many ways... Not only by providing you with a UL – Listed premier, modular cover/support system, but also by helping you with design, installation and anchoring problems.

Our reputation for quality and service has been instrumental in making us the number one supplier to the sprinkler retrofit industry, and we are well on our way to becoming the system of choice for

covering plumbing piping, mechanical lines, wire, cable, and medical tubing.

Take a look at our product line and you will see why DecoShield® is, indeed, "The Creative Cover".

To receive our full product catalogue and samples, fill out our "Request Information" page or give us a call at (800) 873-0894.

W.S. Darley & Company

325 Spring Lake Drive
Itasca, Illinois 60143
Phone: 630.735.3538
Website: www.darley.com

Founded:
1908

Primary Products/Services:
Fire and Emergency Services

Market Area:
International

Hours of Operation:
8:00 a.m.–4:30 p.m.

Management:
Paul Darley, CEO
Jeremy Taylor, Chief Engineer
Kevin Sofen, Business Development
Sales Contact: Kevin Sofen
Email: kevinsofen@darley.com

Company Profile:

NFPA 13D fire sprinkler pump packages that ship within 24 hours. Darley is a family owned company involved with the fire industry since 1908. We understand the fire industry and strive to provide the highest level of customer satisfaction. We are dedicated to excellence and offer a diverse line of quality products and services through progressive design, manufacturing and distribution. Darley can design a custom NFPA 13D or 13R around your needs. Darley also specializes in the Hydrant Booster, a decentralized pump station for rural fire departments.

Eaton's B-Line Business

509 W. Monroe St.
Highland, Illinois 62249
Phone: 800.851.7415



www.edcos.com

EDCOS, Inc.

330 Industrial Park
Mercedes, Texas 78570-4300
Phone: 956.565.5660
FAX: 214.975.1158
Email: pedro.valdez@edcos.com
Website: www.edcos.com

Founded:

2004

Primary Products/Services:

Grooved Fittings, Pipe Valves, Fittings, Hangers, Foam, Bladder Tanks, other.

Market Area:

New Mexico, Texas, Louisiana, Mexico, Central and South America, Caribbean

Hours of Operation:

8 a.m. – 6 p.m. M-F

Management:

Pedro Valdez
Elvia Valdez
Raul Briones
Yvonne Gomes

Sales Contact:

Ania Garcia, International/Domestic Sales
Email: sales@edcos.com

Company Profile:

We distribute and supply UL & FM, CE, VdA, other, listed approved fire protection equipment; Pipe, Valves, fittings, Grooved, Welded, Flanged, Mechanical Joint Fittings, Hangers, Butterfly Valves, Wafer Valves, Fire Hydrants, Post Indicators, Nozzles, Fire Hose, Angle Valves. From underground materials to all above ground. We also provide foam concentrate, bladder tanks, ILBP foam pump skids, grooving tools. FM200, CO2, Novoc1230. We also cover mechanical contractors.

Give us an opportunity. Se Habla Español.

email: info@ecscorrosion.com
Website: <http://ecscorrosion.com>

Founded:

2003

Primary Products/Services:

Corrosion management, nitrogen generator, automatic air vent, corrosion monitor

Market Area:

Nationwide

Management:

Jeff Kochelek, CEO
Lucas Kirn, Market Development Manager
Adam Hilton, Product Engineering Manager
Gerard van Moorsel, Technical Services Manager

Sales Contact:

Lucas Kirn
email: lkirn@ecscorrosion.com

Company Profile:

Engineered Corrosion Solutions is a corrosion management firm that offers proprietary dry pipe nitrogen inerting technology (DPNI) and wet pipe nitrogen inerting technology (WPNI) for controlling corrosion and eliminating pipe leaks in wet, dry and preaction fire sprinkler systems. ECS also offers fire sprinkler system assessment and analytical services to determine the root cause, extent and severity of corrosion in existing fire sprinkler systems. The ECS Protector Nitrogen Generator, ECS Ejector Automatic Air Vent and ECS In-Line Corrosion Detector are among many products offered. We are the de facto standard in fire sprinkler corrosion control.



Ferguson Fire & Fabrication

Corporate Headquarters
800 South 4th Avenue
Mansfield, Texas 76063
Phone: (817) 276-7060
Fax: (817) 473-3059
Website: www.fergusonfire.com

Founded:

1989

Primary Products/Services:

Fire Sprinkler Material, Special Hazards, Engineered Products and Fabrication.

Market Area:

Continental United States plus Alaska

Hours of Operation:

7:00 a.m. – 4:30 p.m. Mon.-Fri.

Management:

George DiMatteo
District Manager - Fire Protection

Company Profile:

Ferguson Fire & Fabrication supplies the highest quality fire protection equipment to our customers nationwide. With more than 65 locations and over 800 associate, we have the reach to supply the most demanding fire protection jobs in the country. Over 30 of our locations have fabrication capabilities and eight of those locations are ISO 9001:2008 Certified, making us the largest ISO Certified fabricator in the country. We offer our customers world-class customer service and unmatched industry expertise. Our associates enthusiastically use their experience to make sure each warehouse location operates in the best interest of the customer and the needs of that local market. From core fire protection products and fabrication to engineered fire protection products, we offer customer access to one of the most comprehensive inventories in the industry. Ferguson Fire & Fabrication is a complete source for all fire protection needs.

Fire Protection Products, Inc.

3198 Lionshead Avenue
Carlsbad, California 92010
Phone: 760.599.1168
Toll-Free: 800.344.1822
FAX: 800.344.3775
Website: www.fppi.com

Founded:

1989

Primary Products/Services:

Fire Sprinkler Accessories

Market Area:

Worldwide

Hours of Operation:

6:00 a.m. – 4:00 p.m. PST Mon.-Fri.

Management:

Randy Greenslate, President

Sales Contact:

Customer Service
Phone: 800.344.1822
FAX: 760.931.8080

Company Profile:

The Most Preferred, Trusted, and Installed Name in the Fire Sprinkler Industry. FPPI offers fire sprinkler accessories, brass trim, sealants & lubricants as well as standpipe equipment through its network of highly knowledgeable local distributors.



Engineered Corrosion Solutions

2043 Woodland Pkwy Suite 301
St. Louis, Missouri 63146
Phone: 314.432.1377


FlexHead Industries, Inc.

56 Lowland Street
Holliston, Massachusetts 01746
Phone: 508.893.9596
Toll-Free: 800.829.6975
FAX: 508.893.6020
Website: www.flexhead.com

Founded:
1991

Primary Products/Services:
Flexible Sprinkler Connections

Hours of Operation:
8:30 a.m. - 5:00 p.m. Mon.-Fri.

Management:
Stephen Mitchell, General Manager
Mike Dooley, Vice President of Sales
Jennifer Costello, Customer Service Manager

Company Profile:
FlexHead Industries manufactures a complete line of one piece flexible sprinkler connections for suspended ceilings in commercial buildings, clean room environments, institutional applications and industrial exhaust ductwork. These systems are FM approved, UL2443 listed and have been used in industry for over 35 years. These products dramatically reduce installation time and maintenance costs and promote overall facility safety by allowing rapid inspection, maintenance and relocation of sprinklers.

FormLink Systems

14547 Brookfield Drive
Fishers, Indiana 46040-9401
Phone: 317.735.3345
FAX: 317-735-3342
Email: sales@formlinksystems.com
Website: www.formlinksystems.com

Company Profile:
FormLink's easy to use inspection software saves you time and money. With form packages for NFPA-25, NFPA-72, fire extinguishers, and more, you can deliver professional reports today. Our NFPA and NFA form licensing means you can continue to use the forms you know and trust. We can even create custom forms for your company. Get better software and exceptional customer service, all with less hassle. Partner with FormLink Systems today.

Fox Sprinkler Supply Corporation

951 Estes Court
Schaumburg, Illinois 60193
Phone: 847.524.8250
FAX: 847.524.8262
Website: www.foxsprinkler.com

Founded:
2000

Primary Products/Services:
Distribution/Fabrication

Market Area:
Illinois, Indiana, Iowa, Wisconsin, Minnesota,
North & South Dakota

Hours of Operation:
Mon 5:30 a.m. – 5:00 p.m.
Tue-Wed 4:30 a.m. – 5:00 p.m.
Th-Fri 5:30 a.m. – 5:00 p.m.
Sat 8:00 a.m. – 12:00 p.m.

Management:
Scott Sandfox, President
Daniel Sandfox, Secretary of Corporation
Dan Rossol, Operations Mgr.
Sales Contact: Danielle Sandfox, Sales Mgr.

Company Profile:
Fox Sprinkler Supply Corp. is a fire sprinkler supply company with people dedicated to bringing the utmost in service to our customers. Employees with exceptional knowledge and over 20 years experience in the fire sprinkler industry.

GECCO, Inc.

23 Baker Drive
Factoryville, Pennsylvania 18419
Phone: 570.945.3568
Fax: 570.945.9542
Email: geccoinc@epix.net
Website: www.dropmaster.co

Founded:
2002

Primary Products/Services:
Dropmaster DM12 and the GDM-300 Power
Drive Cart

Market Area:
Worldwide

Hours of Operation:
7:00 a.m. - 3:30 p.m. EST

Management:
Oma Clum, Owner
Gerald Clum, President

Sales Contact:
Chris Von Ahnen, Director of Sales and Marketing
email: chris@dropmaster.com

Gem Sprinkler Company

1524 Astoria Dr.
Allen, Texas 75013
Phone: 813.672.2017

General Air Products, Inc.

118 Summit Drive
Exton, Pennsylvania 19341
Phone: 610.524.8950
Toll Free: 800.345.8207
FAX: 610.524.8965
Website: www.generalairproducts.com

Founded:
1936

Primary Products/Services:
Air compressors /13D Pump Systems /
Air Maintenance Devices

Market Area:
Worldwide

Hours of Operation:
8:00 a.m. - 5:00 p.m. EST Mon.-Fri.

Management:
Raymond M. Fremont, President
Raymond M. Fremont Jr., Sales and
Marketing Manager
Raymond R. DeCecco, Fire Protection Specialist
Sales Contact: Raymond M. Fremont Jr.

Company Profile:
General Air Products, Inc. manufactures equipment for both residential and commercial fire protection. From our innovative residential fire protection pump and tank systems for NFPA 13D applications to our complete line of air compressors designed specifically for fire protection applications quality and reliability are as integral as the pumps and switches. We also provide unparalleled customer service before and more importantly, after the sale. Visit our website or give us a call for details, drawings and more!

Global Vision, Inc.

8730 Jefferson Hwy
Osseo, Minnesota 55369
Phone: 763.391.0990
FAX: 763.391.7668
Website: www.gviflow.com

Products/Services:
Global Vision provides only the highest quality

Fire Pump Test Meters and accessories around the world. For all your FM Approved test meter needs, Global Vision is the right choice.

Management:

Charles Sutton, Pres./Owner

Globe Fire Sprinkler Corporation

4077 Air Park Drive
Standish, Michigan 48658
Phone: 989.846.4583
Toll Free: 800.248.0278
FAX: 989.846.9231
Website: www.globesprinkler.com

Founded:

1987

Primary Products/Services:

Manufacturers of sprinklers, valves, etc.

Market Area:

Worldwide

Hours of Operation:

7:00 a.m. – 5:00 p.m., Mon.-Fri.

Management:

Robert C. Worthington, Chairman & CEO
Steven R. Worthington, President

Sales Contact:

Steven R. Worthington, President
Phone: 989.846.4583
FAX: 989.846.9231

Company Profile:

Globe Fire Sprinkler Corp. is an independent, privately owned company that strives to exceed customer expectations, offering top quality, competitive products and a high level of customer service. Approximately 30% of Globe's net sales are to overseas customers. Globe continues to develop new products as the world market demands and is happy to state that its relationship with various approval authorities, such as Underwriters Laboratories, Inc., FM approvals and the Loss Prevention Certification Board UK is excellent. Globe has the LPCB UK certification for ISO 9000 series Quality Assurance, therefore exhibiting proof of the quality it continuously builds into each of its 100% factory-tested products.

Guardian Fire Equipment

3430 NW 38th Street
Miami, Florida 33142
Toll Free: 800.327.6584
FAX: 800.827.3869

Primary Products/Services:

Fire Standpipe Equipment

Market Area:

Worldwide

Management:

Richard H. Childress, President
Lisa C. Peterson, Vice President

Gulf Coast Tank & Construction Company

3902 Reese Road #A400
Rosenberg, Texas 77471
Tel: 713-637-8778

Harvel Plastics, Inc.

PO Box 757
300 Keubler Rd.
Easton, Pennsylvania 18044-0757
Phone: 610.252.7355
FAX: 610.253.4436
Website: www.harvel.com
www.harvelfiresprinklerpipe.com

Founded:

1964

Primary Products/Services:

Manufacturers of PVC & CPVC Piping Products

Market Area:

National & International

Hours of Operation:

7 days/24 hrs.

Management:

Earl E. Wismer, Chairman, CEO
Patrick M. Foose, President/G.M.
Roy Burpee, National Sales Mgr., Fire Protection
William P. Weaver, Director, Technical Services

Sales Contact:

Roy Burpee, National Sales Manager,
Fire Protection
Phone: 610.252.7355
FAX: 610.253.4436

Company Profile:

Harvel Plastics, Inc., a high quality manufacturer of thermoplastic piping products since 1964, is a pioneer producer of CPVC Fire Sprinkler Pipe. Many of the first UL tests performed to evaluate CBVC for fire sprinkler service were conducted on pipe manufactured by Havel. Harvel CPVC piping products consistently meet the tough performance requirements for fire service as verified through on-going UL, FM and LCPR testing. Harvel's steadfast dedication to quality and unmatched manufacturing experience has earned the company the reputation of "The Quality Line"



HD Supply-Fire Protection

1830 Craig Park Court
St. Louis, Missouri 63146
Phone: 800 492 6909
Website: www.hdsfireprotection.com

Primary Products/Services:

Full line Supplier and Fabricator

Market Area:

National

Hours of Operation:

8:00 a.m. – 5:00 p.m., Mon.-Fri.

Management:

Tony Cammiso, Regional V.P.
Hank Evans, Regional Dir. of Ops
Derek Allen, West Area Director
Dave Stevens, East Area Director

Sales Contact:

Hank Evans, Regional Director of Operations
Email: hank.evans@hdsupply.com

Company Profile:

HD Supply - Fire Protection offers the full array of fire protection products and services. With an ever growing footprint, our strategically located supply and fabrication facilities maintain vast inventories and enable us to provide superior customer service along with today's technology. Our fabrication facilities are backed by strict quality control procedures, and offer custom fabrication to meet the needs of your next project.

**HD Supply-Fire Protection
Branch locations:**

Phoenix, Arizona

1650 E Riverview Dr. #110
Phoenix, Arizona 85034
Phone: 602.256.0050
FAX: 602.256.7117

Hayward, California

2407 Industrial Parkway West Hayward
California 94545
Phone: 510.441.1650
FAX: 510.441.1620

San Francisco, California

155 De Haro St.
San Francisco, California 94103
Phone: 415.431.8722
FAX: 415.431.8567

Sacramento, California
1120 Blumenfeld Drive
Sacramento, California 95815
Phone: 916.565.0466
FAX: 916.565.1852

Fresno, California
4710 E. Commerce Ave.
Fresno, California 93725
Phone: 559.441.7171
FAX: 559.441.7175

La Habra, California
751 E. Lambert Rd.
La Habra, California 90631
Phone: 562.690.8800
FAX: 562.690.1419

Lodi, California
1625 S. Stockton St.
Lodi, California 95240
Phone: 209.334.9768
FAX: 209.334.9773

Fontana, California
15535 Arrow Route
Fontana, California 92335
Phone: 909.320.5306
FAX: 909.356.8599

Denver, Colorado
735 Leyden St.
Denver, CO 80216
Phone: 303.305.4507
FAX: 720.941.4347

Tampa, Florida
1430 Massaro Blvd.
Tampa, Florida 33619
Phone: 813.620.9058
FAX: 813.626.6912

Orlando, Florida
3655 Old Winter Garden Rd.
Orlando, Florida 32805
Phone: 407.299.2275
FAX: 407.298.5038

Palm Beach, Florida
1751 Avenue L
Riviera Beach, Florida 33404
Phone: 561.863.5600
FAX: 561.845.6120

Miami, Florida
10810 NW 92nd Terrace Ste. 108
Miami, Florida 33178
Phone: 305.477.2383
FAX: 305.805.4923

Jacksonville, Florida
11310 Distribution Ave. West
Jacksonville, Florida 32256
Phone: 904.260.4705
FAX: 904.260.4644

Atlanta, Georgia
2157 Tucker Industrial Road
Tucker, Georgia 30084
Phone: 770.414.1212
FAX: 770.414.1883

Chicago, Illinois
5144 West 73rd St.
Bedford Park, Illinois 60638
Phone: 708.728.9793
FAX: 708.728.9826

Indianapolis, Indiana
8615 East 33rd St.
Indianapolis, Indiana 46226
Phone: 317.898.4879
FAX: 317.898.4868

Columbia, Maryland
9325 Snowden River Pkwy #C
Columbia, Maryland 21046
Phone: 410.290.8020
FAX: 410.290.8019

Charlotte, North Carolina
75 Odell School Rd. S
Concord, North Carolina 28027
Phone: 704.784.4700
FAX: 704.789.9288

Las Vegas, Nevada
4035 W. Oquendo Rd
Las Vegas, Nevada 89118
Phone: 702.382.0331
FAX: 702.382.0671

Brockton, Massachusetts
1123 Pearl St.
Brockton, MA 02301
Phone: 508.894.0130
FAX: 508.894.0139

Cincinnati, Ohio
4325 Mulhauser Rd., Ste. 6
Fairfield, OH 45014
Phone: 513.642.7005
FAX: 513.860.1245

Portland, Oregon
12670 SW Leveton Dr.
Tualatin, OR 97062
Phone: 503.404.2650
FAX: 503.691.6001

Memphis, Tennessee
3634 Cherry Rd.
Memphis, TN 38118
Phone: 901.745.3106
FAX: 901.370.6920

Dallas, Texas
1975 California Crossing Rd.
Dallas, TX 75220
Phone: 972.830.9370
FAX: 972.830.9385

Houston, Texas
5823 Thomas Rd.
Houston, TX 77041
Phone: 713.937.4568
FAX: 713.937.0493

San Antonio, Texas
12050 Crownpoint Dr., Ste. 100
San Antonio, TX 78233
Phone: 210.247.4940
FAX: 210.637.6682

Richmond, Virginia
738 Goodes St.
Richmond, VA 23224
Phone: 804.232.2003
FAX: 804.232.1255

Salt Lake City, Utah
275 West 2855 South
Salt Lake City, UT 84115
Phone: 385.419.3950

Seattle, Washington
10013 MLK Jr. Way So.
Seattle, WA 98178
Phone: 206.722.9475
FAX: 206.722.9477

Hilti, Inc.

5400 S 122nd East Avenue
Tulsa, Oklahoma 74146-6007
Phone: 800.879.6000

HRS Systems, Inc.

208 Southside Square
 Petersburg, Tennessee 37144
 Phone: 931.659.9760
 FAX: 931.659.9763
 Website: www.hrssystem.com

Primary Products/Services:
 Fire Protection Engineering Software

Management:
 Hal R. Sanders, P.E., President
 H. Asa Tuten, Jr., General Manager

Marketing Area:
 Worldwide

Company Profile:
 HRS Systems, Inc. is a dynamic fire protection engineering software development and marketing entity. Our goal is to provide fire protection engineering software – second to none – worldwide. Accuracy of calculations and results are paramount, with ease of data entry and attention to user comments and suggestions ranking a close second. Annual updates, at no extra charge, often introduce new features; the JOB COST ESTIMATOR is now included in both HASS® and COOSA® (below) as utilities. HRS Systems, Inc. presents:

- HASS® for hydraulic analysis of sprinkler systems
- JOB COST ESTIMATOR for cost estimating
- HASS HOUSE® for residential sprinkler analysis
- COOSA® for CO2 system analysis.

All are Windows-Based (32 & 64 bit) and available in both English and metric Units plus metric units/Spanish text.

For further information, please e-mail:
hass@hrssystem.com

Huguenot Laboratories, Inc

101 Riverdale Road
 Port Jervis, New York 12771
 Toll Free: 800.228.3793
 FAX: 845.858.8821

Founded:
 1998

Primary Products/Services:
 Fire Protection Corrosion Solutions

Market Area:
 North America, South America, New Zealand, Australia

Hours of Operation:
 7:00 a.m. - 5:00 p.m. Mon.-Fri.

Management:
 Tim O'Leary, President

Sales Contact:
 Tim O'Leary, President

Company Profile:
 Huguenot Laboratories, Inc. is the leader in providing Microbiological Influenced Corrosion analysis testing to identify and provide mitigation options to address corrosion problems in wet and dry fire sprinkler systems. Huguenot Laboratories has a full suite of portable and permanent Chemical Injection Systems, Wet System Air Release Systems, Corrosion Monitoring Stations, test kits and nitrogen generation equipment to address all of your fire sprinkler corrosion management requirements. Huguenot Laboratories patent pending dry gas inhibitor technology is the industry's first new technology for dry and preaction systems that allows for a complete corrosion management solution for the treatment of the air source. This new technology out-performs nitrogen and is a fraction of the cost of nitrogen equipment. Please call us at 800.228.3793.



Hydratec, Inc.
 64 Haverhill Road
 Windham, New Hampshire 03087
 Phone: 603.434.0502
 FAX: 603.434.1348
 Website: www.hydracad.com

Founded:
 1972

Primary Products/Services:
 Fire Protection Design Software & Service

Market Area:
 Worldwide

Hours of Operation:
 9:00 a.m. - 5:00 p.m. Mon.-Fri.

Management:
 Alan Johnston, President
 Paul McKenna, Customer Support Manager
 Bill McKenna, Design Manager

Sales Contact:
 Art Dove, CAD Development Manager

Company Profile:
 Hydratec has been providing quality software and design services for over 40 years. Our complete line of software products, along with accessible

and knowledgeable customer service, gives the Hydratec customer of any size or experience level an edge in design efficiency. Our software packages include HydraCAD v51/52 for system design, HydraLIST for fabrication reports, HydraCALC for pipe sizing, HydraCALC-Sizer for pipe size estimating, HydraBID for price estimating, and HydraCAD-R for NFPA 13-D Systems, and HydraCALC for REVIT for direct hydraulic analysis of Revit models. These packages can be used separately, or as an integrated set to provide the best possible AutoCAD-based solution for 2D and 3D design, BIM, Navisworks coordination and true REVIT content integration.

Hydro Flow Products, Inc.

1330 Ensell Rd
 Lake Zurich, IL 60047
 Phone: 847.434.0101
 Toll Free: 888.202.9987
 FAX: 847.434.0073
 Website: www.hosemonster.com

Founded:
 1996

Primary Products/Services:
 Fire pump and fire flow test equipment

Market Area:
 Global

Hours of Operation:
 Mon.-Fri. 7:30 a.m.-5:00 p.m. CST

Management:
 Fred Grenning, President

Sales Contact:
 Michael, Lori

Company Profile:
 We at Hydro Flow Products are dedicated to providing equipment that makes the tasks of fire pump testing and fire flow testing safe, accurate and simple.

Inspection Reports Online

197 Poplar Street Ste. 5
 No. Aurora, Illinois 60542
 Tel: 331.454.7800
 FAX: 331.454.7801

**ITW Commercial Construction/
 Buildex-SAMMY**

1349 W Bryn Mawr Avenue
 Itasca, Illinois 60143
 Tel: 630.787.3211

Website: www.itwccna.com

Founded:

1967

Primary Products/Services:

Pipe Hangers

Market Area:

National

Hours of Operation:

8:00 a.m. – 5:00 p.m. Mon.-Fri.

Management:

J. Schneider, Nat'l Mktg Mgr.
Ben Nolen, Product Mktg Mgr.

Sales Contact:

Bryant Hope, Nat'l Sales Mgr.

Company Profile:

ITW Commercial Construction is a division of Illinois Tool Works, has been a leading manufacturer of fastener systems for the construction industry. Our mission is to provide value-added, innovative product solutions to help contractors and architects build high quality buildings. SAMMYS® suspended anchoring systems have been providing vertical and horizontal overhead structural attachment solutions for decades. They are manufactured to meet the design challenges of modern structures and are aesthetically compatible with green design principles seeking to provide borrowed lighting and space framing benefits. All Sammys are made here in the USA, using the Teks® and Tapcon® technology preferred by US contractors for years. Sammys are best known in the fire sprinkler industry, but are adaptable for use in plumbing, electrical and HVAC applications.

JG Innovations, Inc.

P.O. Box 8128

Janesville, Wisconsin 53547

Phone: 608.314.8710

Toll Free: 888.933.2248

FAX: 608.314.8712

Website: www.jgius.com

Founded:

2009

Primary Products/Services:

Soffi-Steel® System
JGI Interlock™ Concealment Systems
ALumA-Fit™ Concealment System

Market Area:

Nationwide

Hours of Operation:

8:00 a.m. – 5:00 p.m. M-F

Management:

Jack Grice, P.E., CEO

Allen Stowers, President
Nancy Knilans, Marketing Manager

Sales Contact:

Allen Stowers
Phone: 608-314-8710
E-mail: sales@jgius.com

Company Profile:

JG Innovations, Inc. is the #1 source for pipe concealment systems. Our concealment systems are designed to cover one or multiple exposed pipe or mechanicals. The Soffi-Steel® and Interlock™ Concealment Systems are manufactured to your specification and are available in light to heavy duty 24-16 gauge galvanized steel. These durable, streamlined concealment systems have been rigorously tested and carry industry approvals such as Factory Mutual Approval and/or are UL/ULC Listed. Our ALumA-Fit™ Concealment System is made from .030 Aluminum and can be fabricated to your dimension requirements on the job-site – allowing for any on-site layout or design changes. Our concealment systems are being specified by architects and engineers to enclose exposed pipe and mechanicals in:

- Universities
- Nursing Homes
- Assisted Living Communities
- VA Hospitals and Clinics
- PK-12 Schools
- Residential Properties
- College Dormitories
- Student Housing
- Psychiatric Facilities
- Detention Centers
- Jails and Prisons
- Commercial Buildings

Our full-line of products are custom fabricated in a variety of shapes and sizes to accommodate your individual enclosure requirements. Our unmatched customer service coupled with our staff of professional installers put our products above any competitive product being considered. We take pride in the system design and integrity and back our products with a 10-year limited warranty. We are confident that both you and your client will be fully satisfied.

KENNEDY VALVE/Division of McWane, Inc.

1021 E. Water Street

PO Box 931

Elmira, NY 14902

Phone: 607.734.2211

FAX: 607.734.3288

Founded:

1877

Primary Products/Services:

A variety of valve products that meet AWWA specifications.

Management:

John Chalk, Customer Service Manager

KEY2ACT

1970 S. Calhoun Road
New Berlin, Wisconsin 53151

Phone: 262.821.4100

email: contact@key2act.com

Website: www.KEY2ACT.com

Founded:

1995

Market Area:

North America

Hours of Operation:

8:00 a.m.-5:00 p.m., M-F

Management:

John Jazwicz, CEO

Jeff Schilling, Exec VP Research & Development

Gina Renner, Exec VP Sales & Mktg

Carly Vento, Exec VP Professional Services

Tim Conroy, Exec VP. Field Service Management

Software

Company Profile:

KEY2ACT is the construction and field service technology leader. Combining 20 years of experience serving customers with visionary leadership, KEY2ACT delivers differentiating innovation to its customers. KEY2ACT is focused on mechanical and non-mechanical specialty trades, facilities maintenance and other large asset or equipment-centric industries. Built on Microsoft technologies, KEY2ACT's solution, Signature, has achieved the Certified for Microsoft Dynamics (CfMD) status, Microsoft's highest accreditation for partner-developed solutions. KEY2ACT protects customers' investments in technology through focused solutions that create workflow efficiencies, enhance cost savings and build customer loyalty. For more information on KEY2ACT, please visit us at www.key2act.com, or call 1-866-KEY2ACT (1-866-539-2228).

Long Island Pipe Supply, Inc.

586 Commercial Ave.

Garden City, New York 11530

Phone: 516.222.8008

FAX: 516.222.9234

Website: www.lipipe.com

Management:

Robert Moss, Owner

Company Profile:

Since 1975 Long Island Pipe Supply, Inc., owner Robert Moss has been driven to be the premier supplier of fire sprinkler pipes, valves, fittings, devices and accessories. Growth did not come easy.

"Building a fabrication and supply business takes years," Moss explains. "You develop accounts and prove yourself by providing top products and the highest level of service."

Long Island Pipe Supply carries the largest selection of nationally known brands at the most competitive prices. Our friendly, dedicated, knowledgeable staff provides outstanding service to every customer. They have the knowledge and ability to schedule a job, so your order is received on time.

Fast, reliable delivery.

An exclusive distributor of many product lines, we ship domestically and worldwide from our thirteen strategic locations. We stock every item needed to complete any fire sprinkler system job world-wide.

Loos and Company, Inc.

901 Industrial Boulevard
 Naples, Florida 34104
 Phone: 239.643.5667
 Toll-Free: 800.321.5667
 FAX: 239.643.4558
 Website: www.earthquakebrace.com

Founded:

1958

Primary Products/Services:

Wire Rope, Cable & Fittings

Market Area:

Worldwide

Hours of Operation:

8:00 a.m.–5:00 p.m. Mon-Fri

Management:

Phillip Cox, Vice President/Sales & Mktg

Sales Contact:

Phillip Cox
 Tel: 800.321.5667
 Fax: 239.643.4558

Company Profile:

Loos & Company has been in business since 1958. We operate out of two manufacturing facilities one in Pomfrey, CT and one in Naples, FL. Our Naples facility manufactures our Loos seismic wire rope and cable bracing products. Our complete seismic bracing line is UL listed and included in NFPA 13 Standard for Installation of Fire Sprinkler Systems.

Master Control Systems, Inc.

910 North Shore Drive
 Lake Bluff, Illinois 60044
 Phone: 847.295.1010
 FAX: 847.295.0704
 Email: sales@mastercontrols.com
 Website: www.mastercontrols.com

Founded:

1965

Primary Products/Services:

Fire Pump Controllers

Management:

William Stelter, President
 Lisa Villa, Sales
 Brian Urbanik, Technical Support

Company Profile:

Master Control Systems, Inc. manufactures the world's first UL/FM Variable Speed Electric Fire Pump Controller. In addition, we manufacture all types of NFPA 20, UL/FM approved, fire pump controllers. We offer electric controllers from 5-400 hp at 200-600. We also offer diesel fire pump controllers and accessory items. Five year warranties are standard on EC-series controllers or DEC-series diesel controllers.



The Metraflex Company

2323 West Hubbard Street
 Chicago, Illinois 60612
 Phone: 312.738.3800
 FAX: 312.738.0415
 Email: zekeb@metraflex.com
 Website: www.metraflex.com

Founded:

1958

Primary Products/Services:

Seismic Expansion Joints

Market Area:

Worldwide

Hours of Operation:

8:30 a.m. - 5:00 p.m. CST Mon.-Fri.

Sales Contact:

Janet Torres, Account Manager
 Email: janett@metraflex.com

Company Profile:

The FM approved Metraflex® Fireloop® seismic expansion joint for fire sprinkler systems accommodates movement in all directions. Meets NFPA 13 guidelines. UL listed. The FireVoop

seismic expansion joint is a great alternative to the Fireloop. It has a different footprint with a shorter hangdown. UL Listed. Meets NFPA 13. Visit www.metrafire.com

Newburgh Windustrial

65 Jeanne Drive
 Newburgh, New York 12550
 Phone: 845.566.5300
 FAX: 845.566.5340
 Website: www.newburghwindustrial.com

Management:

Dean Lucas, President
 James Lucas, Vice President

Outside Sales Representative:

David J. Vandeyar
 Cell: 914.646.3283

Company Profile:

As part of a national wholesale distribution organization, known as WinSupply Inc., Newburgh Windustrial specializes in wholesale distribution of pipes, valves, and fittings for the fire sprinkler industry. From its 60,000 sq. ft. facility in the mid-Hudson Valley, Newburgh Windustrial provides fire sprinkler contractors throughout the northeast with customized fabrication of fire sprinkler systems. With a sharp focus on personalized service, Newburgh Windustrial has the expertise to be knowledgeable about the products they sell as well as the technical requirements of their customers.

The Noble Company

7300 Enterprise Drive
 Spring Lake, Michigan 49456
 Phone: 800.878.5788
 FAX: 231.799.8850
www.noblecompany.com

Founded:

1946

Hours of Operation:

8 a.m.-5 p.m. EST M-F

Management:

George Rudolph, National Sales Mgr. –
 Engineered Fluids
 Nelson Wilner, Vice President-Sales & Marketing

Sales Contact:

George Rudolph
 Phone: 800.878.5788
 FAX: 231.799.8850
 email: sales@noblecompany.com

Company Profile:

Founded in 1946, Noble Company manufactures premium-quality, innovative products for the Tile, Plumbing, Heating and Cooling and Fire Sprinkler Industries. Noble Company's Engineered Fluids Division manufactures freeze protection fluids for various applications such as Hydronic under-floor-heating, Solar Heating Systems, Geothermal Systems and Fire Sprinkler Systems. Noble Company is an American-based company, manufacturing products in Michigan and Louisiana. Our products are designed and manufactured to exceed applicable industry standards and are engineered for reliability.

PAC Pump & Systems, Inc.

106 Hobart St.
Hackensack, New Jersey 07601
Phone: 201.621.0500
FAX: 201.621.0506
Website: www.pacpump.com

Founded:

2003

Primary Products/Services:

Fire pumps and controllers—sales and service.

Market Area:

New Jersey

Hours of Operation:

7:00 a.m. - 6:00 p.m. Mon.-Fri.

Management:

William Casey, President
Craig Pastore, Sales & Service
Nick Badalato service manager
Cate Griffing, Inside Sales

Sales Contact:

William Casey

Company Profile:

PAC Pump & Systems, Inc. is a distribution and service company whose dedicated team of engineers, sales personnel, customer service representatives, project managers, machinist, mechanics and administrative personnel offers years of experience in supplying rotating equipment and services. We ensure our staff is prepared to meet the requirements of each and every customer by investing in education, training and state-of-the-art technology. Our customers benefit from our unparalleled problem solving strategies that have developed through our many years of experience.

Patterson Pump Company

2129 Ayersville Rd.
Toccoa, GA 30577
Phone: 706.886.2101
Website: www.pattersonpumps.com

Company Profile:

Rugged. Reliable. Efficient. and Self Contained. Timely delivery of rugged, reliable and responsive fire suppression pumps and prepackaged systems is critical. Whether we're meeting stringent customer standards, unheard-of deadlines or just going the extra mile to ensure customer satisfaction, more and more customers are choosing Patterson's Sentinel™ Series Fire Pump products and services to securely fulfill their fire protection needs.

Peerless Pump Company

2005 Dr. Martin L. King Jr. St.
Indianapolis, Indiana 56202
Phone: 317.925.9661
Email: tballengee@grundfos.com
Website: www.Peerlesspump.com

Founded:

1923

Primary Products/Services:

Fire pumps and accessories

Market Area:

Global

Hours of Operation:

8:00 a.m.-5:00 p.m. M-F EST

Management:

Mike Cates, General Manager
Tim Ballengee, VP Sales, Fire Market

Sales Contact:

Tim Ballengee, Business Director, VP. Sales,
Fire Market
Phone: 919.656.2243
FAX: 919.654.6791
Email: tballengee@grundfos.com

Company Profile:

Peerless Pump is the global leader in fire pump systems and accessories, covering the widest range of selections in the industry. Specialties include pumps and packages for the commercial, high-rise, industrial and power industries, inclusive of skidded and environmental (house type) enclosed packaged systems.

Pentair—CADDY

34600 Solon Road
Solon, Ohio 44139
Phone: 440-248-0100
Website: www.erico.pentair.com

Primary Products/Services:

Fixing, fastening and support products for use in electrical installation, datacom, telecom, fire protection, seismic and HVAC applications.

Market Area:

National & International

Company Profile:

Pentair Engineered Electrical & Fastening Solutions is a leading global manufacturer and marketer of superior engineered products for niche mechanical applications. These Pentair products are sold globally under the market-leading brand, CADDY fixing, fastening, and support products. For more information on CADDY, please visit erico.pentair.com

Office Locations:

34600 Solon Road
Solon, Ohio 44139
Phone: 440-248-0100

Permabond Engineering Adhesives

223 Churchill Ave.
Somerset, New Jersey 08873
Phone: 800.714.0170
FAX: 732.868.0267
email: info.americas@permabond.com
Website: www.permabond.com

Founded:

1978

Primary Products/Services:

Adhesives, Sealants

Market Area:

Worldwide

Hours of Operation:

M-F 8:00 a.m.-5:30 p.m. EST

Company Profile:

Permabond, a leading manufacturer of engineering adhesives, supplies high-quality industrial adhesives to customers in virtually every industry worldwide, including products specifically designed for the Fire Protection Industry. Permabond Pipe Sealants use anaerobic technology to prevent leaks in sprinkler systems. Used in fabrication and installation, Permabond Pipe Sealants replace pipe dope and sealing tapes with a complete and reliable seal. Cure is initiated by the presence of metal and the absence of air. Permabond's sales

and technical experts are ready to assist you with all of your bonding and sealing needs.

PHD Manufacturing, Inc.

44018 Columbiana-Waterford Rd.
Columbiana, Ohio 44408
Phone: 330.482.9256
Toll Free: 800.321.2736
FAX: 330.482.2763
Website: www.phd-mfg.com

Founded:
1972

Primary Products/Services:
Pipe hangers, beam supports, struts & accessories

Market Area:
U.S., Europe, Asia

Hours of Operation:
8:00 a.m. – 5:00 p.m., Mon.-Fri.

Management:
Joe Corvino, President
Dave Neal, National Sales Manager
Rick Persing, Nat'l Sales Manager-Sprinkler Division

Sales Contact:
Rick Persing, Nat'l Sales Manager, Sprinkler Division
Phone & FAX: 514.536.3857

Company Profile:
An industry leader in the pipe hanger supports and strut markets. PHD has successfully built a reputation of quality, customer service and dependable deliveries. Our expansive product lines, including seismic and CPVC, is well-suited to meet the needs of the Fire Protection Industry. We are excited to meet the challenges and build the same success in this expanding market place.

Pipe Fabricators

8580 Valley Forge Lane N
Maple Grove, Minnesota 55369
Phone: 763.488.8100
Toll-Free: 866.747.7473
FAX: 763.488.8140
Website: www.pipefabricatorsps.com

Founded:
1984

Primary Products/Services:
Sprinkler supplier with fabrication

Market Area:
Minnesota, North Dakota, South Dakota,

Nebraska, Illinois, Wisconsin, Iowa

Hours of Operation:
6:00 am – 5:00 pm Mon-Fri

Sales Contact:
Mark Augustson, General Manager
Phone: 763.488.8100
FAX: 763.488.8140

Company Profile:
Pipe Fabricators is a supplier of fire protection products and fabrication. Since its establishment, Pipe Fabricators has evolved from a fabricator to a sprinkler supplier with fabrication. Our company has emerged over the years and will continue to grow as we enter new markets and expand our product line.

Plumbers Supply Company

1000 E. Main St.
Louisville, Kentucky 40206
Phone: 502.540.0223
Toll Free: 800.626.5133
FAX: 502.540.0330
Website: www.plumbers-supply-co.com

Founded: 1921

Primary Products/Services:
Plumbing, Hydronics, HVAC, Fire Protection

Market Area:
Kentucky, Tennessee, Indiana, Western West Virginia

Hours of Operation:
Mon.-Fri. 7:00 a.m.-5:00 p.m.

Management:
Brian Roberts, Outside Sales for Indianapolis area, Fire Protection Sales Manager, All locations
Phone: 317-783-2981
Cell: 317-557-1559
Email: Brian.Roberts@plumbers-supply-co.com

INSIDE SALES: INDIANAPOLIS, INDIANA

Inside Sales Manager: Jason Davis
Phone: 317-472-8921
Cell: 317-450-6764
Email: Jason.Davis@plumbers-supply-co.com
Dale Sigler
Phone: 317-472-8903
Email: Dale.Sigler@plumbers-supply-co.com

INSIDE SALES: LOUISVILLE, KENTUCKY

Inside Sales Manager:
Mike Newton
Phone: 502-540-0332
Cell: 502-817-2079
Email: Mike.Newton@plumbers-supply-co.com
Sam Alvey
Phone: 502-540-0223

Cell: 502-550-2053
Email: Sam.Alvey@plumbers-supply-co.com
Beau Jones
Phone: 502-540-0332
Email: Beau.Jones@plumbers-supply-co.com

INSIDE SALES: LEXINGTON, KENTUCKY

Ronnie Wilson
Phone: 859-255-0700
Cell: 859-621-5278
Email: Ron.Wilson@plumbers-supply-co.com

INSIDE SALES: EVANSVILLE, INDIANA

Brent Mabrey
Phone: 812.425.3115
Cell: 812.305.3203
Email: Brent.Mabrey@plumbers-supply-co.com

FIRE PROTECTION OUTSIDE SALES, KY, TN, SO. IN, WV

John Jutz
Phone: 502-540-0272
Cell: 502-376-0639
Email: John.Jutz@plumber-supply-co.com

Company Profile:
Started in 1921 as Plumbing and Mill Supply house. Plumbers Supply has opened branches and mini-branches in over ten locations in our area. Plumbers Supply has been a fire protection supply house of steel pipe and fittings since its inception, but has had a dedicated fire sprinkler sales division since late 1980's.

Polymer Molding, Inc.

1655 West 20th Street
Erie, Pennsylvania 16502
Toll-Free: 800.344.7584
FAX: 814.455.0289
Website: www.polymermolding.com

Founded:
1978

Primary Products/Services:
Product Protection

Market Area:
Worldwide

Hours of Operation:
8:00 a.m. - 5:00 p.m. Mon.-Fri.

Management:
Chris Vinson, Vice President, Sales



Potter Electric Signal Company

5757 Phantom Drive
St. Louis, Missouri 63042
Toll-Free: 314.595.6900
FAX: 314.595.6999
email: sales@pottersignal.com
Website: www.pottersignal.com

Founded:
1898

Primary Products/Services:
Flow, Pressure, Tamper switches along with corrosion monitoring and mitigation.

Market Area:
Worldwide

Hours of Operation:
8:00 a.m. – 5:00 p.m. CST Mon.-Fri.

Sales Contact:
Tim Freiner, Vice President
– North American Sales
email: sales@pottersignal.com

Company Profile:
Established in 1898, Potter Electric Signal Company produces a wide array of products including fire sprinkler monitoring systems, corrosion monitoring, MIC testing, and corrosion mitigation. At Potter, we supply our customers with products that provide real world solutions and unequalled service and technical support. Our employees are committed to providing the very best product and service available for the protection of life and property.

Potter Roemer

17451 Hurley Street
Industry, California 91744
Toll-Free: 800.366.3473
FAX: 714.545.3552
Website: www.potterroemer.com

Founded:
1937

Primary Products/Services:
Fire Extinguishers, Hoses, Valve Cabinets

Market Area:
U.S.A.

Management:
George Brown, Vice President Sales

Company Profile:
Potter Roemer has been the leading supplier

of interior hose and standpipe equipment to the fire protection industry. From four regional shipping facilities, PotterRoemer has the largest uncommitted inventory in stock and available for your project.



Powers Fasteners

2 Powers Lane
Brewster, New York 10509
Phone: 800.524.3244
FAX: 877.871.1965
email: engineering@powers.com

Primary Products/Services:
Construction Anchors

Market Area:
Global

Hours of Operation:
8:00 a.m.-6:00 p.m. EST,
Monday – Friday

Management:
Kirk Reimer, V.P., Commercial

Sales Contact:
Tim Cleary, Customer Service
Phone: 800.524.3244
FAX: 877.871.1965

Company Profile:
Powers Fasteners has been a worldwide pioneer in the fastening industry since 1921 and today is the leading supplier of concrete and masonry anchors and fastening systems in North America. Powers has extensive engineering and manufacturing expertise in several product groups, including mechanical anchors, adhesive anchoring systems and powered forced-entry systems such as powder-actuated and gas fastening systems.

Quimby Equipment Company, Inc.

159 Express Street
Plainview, NY 11803
Phone: 516.349.5959
Website: www.quimbyinc.com
Email: info@quimbyinc.com

Primary Products/Services:
Pump Sales

Management:
Greg Ross, Sales Representative



Reliable Automatic Sprinkler Co. Inc.

103 Fairview Park Drive
Elmsford, New York 10523
Phone: 914.829.2042
Toll-Free: 800.431.1588
Fax: 800.848.6051
Email: info@reliablesprinkler.com
Website: www.reliablesprinkler.com

Founded:
1920

Primary Products/Services:
Sprinklers, Valves, Special Hazards/Systems, System Components, and Fabrication

Market Area:
Worldwide

Hours of Operation:
7:30 a.m. - 5:30 p.m. EST Mon.-Fri.

Management:
Frank J. Fee, III - Chairman of the Board
Kevin T. Fee - President
Michael R. Fee – Executive V.P.
John McNamara – V.P., Corporate Sales
Rex Schwendiman – V.P., System Components
Tom Multer – V.P., Product Technology
Graeme Leonard – V.P., International Sales
Kevin T. Fee, Jr. V.P., Sales - Americas

Company Profile:
For almost 100 years, Reliable Automatic Sprinkler Co., Inc. has been one of the world's largest manufacturers of automatic fire sprinklers, fire protection valves and accessory products and a global distributor of sprinkler system components. Reliable offers fabrication in located areas. Headquartered in Elmsford, New York, the company has a state-of-the-art manufacturing facility in Liberty, South Carolina and has offices strategically located throughout the US and internationally. Reliable provides innovative, quality fire protection solutions for commercial, industrial and residential projects while maintaining unrivalled customer service that only a family-owned company can offer. Go to www.reliablesprinkler.com to learn more!

CORPORATE OFFICE:

103 Fairview Park Drive
Elmsford, NY 10523
Tel.: 800.821.2138
www.reliablesprinkler.com

CORPORATE MANUFACTURING FACILITY:

1470 Smith Grove Road
Liberty, SC 29657
Tel.: 864.843.1700

WORLDWIDE DISTRIBUTION CENTERS & SALES OFFICES:

NORTHEAST REGION:

New York, NY (Elmsford)
Tel.: 800.431.1588
Fax: 800.848.6051

MID-ATLANTIC REGION:

Washington, DC (Lorton, VA)
Tel.: 877.883.8831
Fax: 877.851.1553

SOUTHEAST REGION:

Atlanta, GA (Norcross)
Tel.: 800.652.1819
Fax: 800.848.6052

Orlando, FL (Longwood)

Tel.: 800.801.3097
Fax: 800.862.0934

MIDWEST REGION:

Chicago, IL (Hanover Park)
Tel.: 800.228.6274
Fax: 800.848.6053

Minneapolis, MN (Roseville)

Tel.: 877.827.2816
Fax: 877.827.3043

SOUTHWEST REGION:

Dallas, TX
Tel.: 800.442.6742
Fax: 800.848.6054

Houston, TX

Tel: 866.978.9965
Fax: 866.978.9979

Denver, CO

Tel.: 877.440.2598
Fax: 877.205.7230

Los Angeles, CA (Brea)

Tel.: 800.352.4365
Fax: 800.848.6055

San Francisco, CA (San Leandro)

Tel.: 800.352.4365
Fax: 800.848.6055

Seattle, WA (Kent)

Tel.: 877.327.2563
Fax: 877.327.2574

FABRICATION:

Grand Prairie, TX:
Tel: 972.352.6400
Fax: 972.352.6402

Portland, OR

Tel: 503.282.5506
Fax: 503.282.0092

Denver, CO

Tel.: 877.440.2598
Fax: 877.205.7230

INTERNATIONAL:

TORONTO CANADA

Tel.: 800.790.6443
Fax: 800.790.6486

WESTERN CANADA

Tel.: 604.542.1864
Fax: 604.542.1894

MEXICO & LATIN AMERICA

Tel.: 800.442.6742
Fax: 800.848.6054

LONDON, UNITED KINGDOM

Reliable Fire Sprinkler (UK) Ltd
Tel.: +44.1342.316800
Fax: +44.1342.314679

HAMBURG, GERMANY

Tel: +49.40.5589818.71
Fax: +49.40.5589818.73

SHANGHAI, CHINA

Tel: +86.21.54037021
Fax: +86.21.54037022

SINGAPORE

Tel: +65 6635 8100
Fax: +65 6734 3176

ADELAIDE, AUSTRALIA

Tel: +61.8.81629555
Fax: +61.8.81629359

DUBAI, UNITED ARAB EMIRATES

Tel: +971.4880.8830

Relmark Group

961 Pottstown Pike
Chester Springs, PA 19425
Phone: 610.321.1010
Website: www.relmarkgroup.com

Primary Products/Services:

Fire Sprinkler Contractor General Liability

Insurance

Sales Contact:

Ray Rittersbach
email: rittersbach@relmarkgroup.com

RJB Wholesale, Inc.

12418 NE 124th Street
Kirkland, Washington 98034
Tel: 206.707.3385



The Solberg Company

1520 Brookfield Avenue
Green Bay, Wisconsin 54313
Phone: 920.593.9445
FAX: 930.593.9464
email: info@solbergfoam.com
website: www.solbergfoam.com

Founded:

1971

Primary Products/Services:

Foam agents and systems hardware

Market Area:

Global

Hours of Operation:

8:00 a.m.-5:00 p.m. CST M-F

Management:

Steve Hansen, Gen. Mgr.
Bill Smith, VP, Global Sales
Dave Pelton, VP, Global Mktg.
Mitch Hubert, VP, Global Prod. Dev.

Sales Contact:

Mark Pillow, Dir. of Sales, Americas
Tel: 812.303.9028
Cell: 812.568.9817
email: mark.pillow@solbergfoam.com

Company Profile:

Solberg is your one-stop resource for Class A and B firefighting foam concentrates and custom-designed foam suppression systems hardware. An Amerex Corporation company, Solberg has the expertise, capabilities and resources to serve the fire protection and firefighting industry. At Solberg, we continually pioneer firefighting foam technologies to meet the latest demands in the Aerospace, Aviation, Chemical, Defense, Energy, Fire Service, Marine, Mining, Oil & Gas,

Petrochemical, Pharmaceutical, Pipeline, Solvents & Coatings and Utilities Industries.

BRANCH OFFICES

The Solberg Company
1714 Indiana Ave.
La Porte, IN 46350
Jim Scott, Midwest Reg. Sales Mgr.
Tel: 219.380.5734
email: jim.scott@solbergfoam.com

The Solberg Company
6477 Deerfield Drive
New Hope, PA 18938
Jim Schwander, Eastern Reg.
Sales Mgr.
Tel: 267.293.0342
email: jim.schwander@solbergfoam.com

The Solberg Company
15211 Rio Plaza Drive
Houston, TX 77083
Mark Wise, Southern Reg. Sales Mgr.
Tel: 281.561.0054
email: mark.wise@solbergfoam.com

South-Tek Systems

2940 Orville Wright Way
Wilmington, North Carolina 28405
Phone: 910.332.4173

SPP Pumps

2905 Pacific Dr.
Norcross, Georgia 30071
Phone: 770.409.3280
FAX: 770.409.3290
Email: sales@sppumps.com

Founded:
1875

Primary Products/Services:
fire pumps and fire pump systems

Market Area:
Global

Hours of Operation:
8:00 a.m.-5:00 p.m. M-F EST

Management:
John Kahren, President
Jimmy Hunt, Director of Sales, Fire Division
Veronica Bryant, Marketing Services
Sales Contact: Jimmy Hunt
Phone: 770.409.3280 ext. 2204
email: james_hunt@sppumps.com

Company Profile:

SPP Pumps has been working with consultants, contractors, installers and end-users for more than a century to achieve the most cost effective fire system pumping solutions. Since SPP Fire was formed in 1875, it has built a reputation for quality and value that has made it unquestionably the leading supplier of Approved Fire Protection Pumping Packages throughout the world. SPP Pumps has six facilities worldwide that offer the same attention to quality and value that has made SPP Pumps a market leader for over 100 years.

Star Sprinkler Corporation

140 Peachstone Gln
West Springfield, Massachusetts
01089
Phone: 413.737.6371
FAX: 413.734.3470



Starfire, Inc.

9825 South 54th Street
Franklin, Wisconsin 53132-8668
Phone: 414.483.5959
Fax: 414.483.1566
Email: info@starfireusa.com

Website:
www.starfireusa.com

Founded:
1987

Primary Products/Services:
Fire Sprinkler Material and Fire Pumps

Market Area:
Midwest & Southwestern U.S./International

Hours of Operation:
8:00 a.m.-5:00 p.m. CST, Mon.-Fri.

Management:
Darrel R. Malek, Chairman
Scott Mathwig, President

Sales Contact:
Gil Brzezinski, Vice President
Tel: 414.483.5959
FAX: 414.483.1566
Email: info@starfireusa.com

Company Profile:

Starfire, Inc. is an independent fire protection supplier with an extensive product line and a knowledgeable service team. We stock fire

sprinklers, control valves, fittings of all types, monitoring devices, bladder expansion and surge suppression tanks and system accessories. We also sell and service fire pumps, controllers and water storage tanks. In addition, Starfire Systems and Starfire Extinguisher offer special hazard fire protection solutions including design, supply and installation. Please see our website for additional information and we encourage you to contact either our Wisconsin or California location with any questions.

System Sensor

3825 Ohio Avenue
St. Charles, IL 60174
Phone: 630.377.6580
Toll-Free: 800.736.7672
FAX: 630.377.6495
Website:
www.systemsensor.com

Founded:
1984

Primary Products/Services:
Fire Sprinkler System Monitoring Products, Fire Detection and A/V Notification Devices

Market Area:
Worldwide

Hours of Operation:
7:30 a.m. - 5:00 p.m. CST Mon.-Fri.

Management:
Todd Rief, President, Honeywell Security and Fire, North America
Dave Pakech, VP of Security and Fire Sales
Chuck Kitts, Director of Fire Sprinkler Sales
Jackie Lorenty, Director of Marketing
Dennis Sekermestrovich, Western Regional Manager

Sales Contact:
Chuck Kitts, Director of Fire Sprinkler Sales

Company Profile:

System Sensor is a global manufacturer of sprinkler monitoring products, including water flow detectors, supervisory switches, pressure switches, deluge releasing panel, alarm bells and explosion-proof products. With sales, service and manufacturing facilities extending throughout the Americas, Europe and Asia, System Sensor promises to continue developing advanced ideas that deliver advanced solutions. Our high production standards and constant communication with our customers gives you a quality product with the information and support you need to install and maintain our products. Because we place a premium on research and development, System Sensor sprinkler monitoring products are quick and easy to install and maintain.

Talco Industries

6040 NE 117th Ave.
Portland, Oregon 97220
Phone: 503.668.1231
Toll Free: 800.878.8055
FAX: 503.688.1234
Email: gj@talcofire.com
Website: www.talcofire.com

Founded:
1981

Primary Products/Services:
Packaged fire pump systems for commercial and Home fire protection Market Area: U.S. & Canada

Hours of Operations:
Monday – Friday

Sales Contact:
Scott Shaffer
Email: ss@talcofire.com

Company Profile:
Talco manufacturers all sorts for packaged pump systems for Commercial and Residential applications. We have released our HOME HYDRANT models with a water storage tank with integral pump system installed through a molded hole in the tank with all package piping and connections included. Just water and drain connections and power to the pressure switch and the system is ready to go. Many other models are available to meet your system requirements.

Tank Connection

3609 N. 16th
Parsons, Kansas 67357
Phone: 620.423.3010
FAX: 620.423.3999
Website: www.tankconncetion.com

Founded:
2004

Primary Products/Services:
Fire Protection Water Storage Tanks

Market Area:
Worldwide

Management:
Bill Neighbors, President & CEO

Sales Contact:
Bransie Qualls, Sales Director, Liquid Division
Email: bransie@tankconnection.com

Company Profile:
Tank Connection designs, manufactures and installs the top rated bolted tank design available for fire protection applications... worldwide. Designed to meet Factory Mutual and NFPA 22

requirements, the Tank Connection performance package remains unmatched in the industry.

Our LIQ Fusion 7000 FBETM coating system and application technology is unmatched in water storage applications, and offered exclusively by Tank Connection. Our facilities are ISO 9001 Certified. TC field construction processes are superior in quality and field safety with an EMR of .59.

Tank Connection is #1 in Storage Applications... Over 2100 years of combined storage tank experience.

Tarsco Bolted Tank, Inc.

5897 State Highway 59
Goodman, Missouri 64843
Phone: 866.700.2500
FAX: 417.845.5592
Website: <http://usatanksales.com>

Telgian Corporation

2615 South Industrial Park Avenue
Tempe, Arizona 85282
Phone: 480.753.5444
Toll Free: 866.364.1700
FAX: 480.753.5450
Website: www.telgian.com

Primary Products/Services:
Engineering/Consulting/Design/Loss Control.

Market Area:
U.S., Canada, Mexico, Latin America, Caribbean

Hours of Operation:
M-F 8:00 a.m.-5:00 p.m. local time

Management:
Russell Leavitt, Executive Chairman
Jim Tomes, President and CEO
Brian Ballard, CFO

Sales Contact:
Ryan Smith
Tel: 480.621.5024
FAX: 480.753.5450

Company Profile:
The Engineering Division of Telgian Corporation specializes in Engineering, Consulting, System Design and Loss Control Engineering services along with third party plan review, acceptance testing and system commission services for owners and authorities having jurisdiction. Telgian engineering has licensed engineers in all 50 states, U.S. territories and Canada. Telgian has a long history of working with owners, builders and contractors to solve complex fire protection challenges and has expertise in a number of

verticals including storage, high rise, assembly, industrial, health care and residential. Telgian has worked with fire sprinkler contractors throughout the U.S., delivering quality working drawings that are prepared by NICET certified designers with oversight by professional engineers.

OFFICES:

900 Circle 75 Parkway SE, Ste 680
Atlanta, GA 30339
Tel: 770.432.3882
FAX: 770.656.3114
Contact: Ralph Bless P.E.

45550 Commerce Center Dr.
Plymouth, MI 48170
Tel: 734.738.1111
FAX: 734.738.1112
Contact: Ron Leszczynski

500 International Dr. Ste 170
Mount Olive, NJ 07828
Tel: 973.440.6650
FAX: 973.440.6651
Contact: Joseph Keltos

11230 Sorrento Valley Rd. Ste 225
San Diego, CA 92121
Tel: 858.795.1000
FAX: 858.795.1001
Contact: Sharyn Deleon

1101 Andover Park West, Ste 100
Seattle, WA 98188
Tel: 206.439.7080
FAX: 206.439.7089
Contact: Warren Burns

12250 Weber Hill Rd., Ste. 130
St. Louis, MO 63127
Tel: 314.849.3001
FAX: 314.849.3011
Contact: John Campbell P.E.

5500 Democracy Dr. Ste 160
Plano, TX 75024
Tel: 972.608.8855
FAX: 972.781.2499
Contact: Russ Mower

TOLCO® – a Brand of Cooper B-Line

509 West Monroe
Highland, Illinois 62249
Phone: 800.851.7415
FAX: 800.257.4312
Email: margie.doll@cooperindustries.com
Website: www.cooperbline.com/tolco

Founded:

1967

Primary Products/Services:

Seismic Bracing; Custom Supports, Pipe Hangers & Supports, Strut Fittings & Accessories & Engineering Support, TOLBrace® Software

Market Area:

Worldwide

Total Equipment

400 5th

Coraopolis, Pennsylvania 15108

Phone: 412.269..0999

Website: www.totalequipment.com**Trademaster, Inc.**

1150 Stephen Hwy

Troy, Michigan 48083

Tel: 586.899.8651

Tyco Fire Protection Products

1400 Pennbrook Pkwy

Lansdale, Pennsylvania 19446

Phone: 215.362.0700

Toll Free: 800.558.5236

FAX: 800.877.1295

Website: www.TycoFire.com,www.TycoRapidResponse.com,www.SprinkCAD.com, www.Ansul.com,www.Pyrochem.com, www.Grinnell.com,www.OnlineTechXchange.com**Founded:**

1850

Primary Products/Services:

Water & Chemical based Fire Protection Products, Grooved Piping Products, Sprinkler System Design Software, Training Services.

Market Area:

Global

Hours of Operation:

8:00 a.m.-6:30 p.m. EST, M-F

Management:

Colleen Replier, President

Rekha Agrawal, G.M., Water and Mechanical

Rajeev Arora, VP & GM Fire Detection and

Special Hazard Products

Sales Contact:

Michael Mottice, Director of Sales, Americas

Tel: 800.558.5236

Fax: 800.877.1295

Company Profile:

Tyco Fire Protection Products traces its roots to the companies that pioneered the Fire Sprinkler Industry at the turn of the last century: Grinnell sprinkler, Star Sprinkler and Central Sprinkler. Through the years, our innovative solutions have continually reinvented, improved and expanded the fire protection market. Industry firsts include concealed sprinklers, quick response sprinklers, residential sprinklers, and advances in storage protection that have evolved to protect changes in sorted commodities and storage technology. This innovation continues today with our continuous investment in education, research and development, software solutions and an unwavering commitment to saving lives and property.

United Brass Works, Inc.

714 South Main Street

Randleman, North Carolina 27317

Phone: 800.334.3035

FAX: 800.498.4696

Email: jim.sattler@ubw.comWebsite: www.ubw.com**Founded:**

1910

Primary Products/Services:

bronze valves / custom cast and machined products

Market Area:

Worldwide

Hours of Operation:

8:30 a.m. - 5:00 p.m. Mon.-Fri.

Management:

Mike Berkelhammer, President

Sales Contact:

Jim Sattler, Sales Manager

Email: sales@ubw.com**Company Profile:**

United Brass Works, Inc manufactures a wide range of bronze valves for fire protection applications including globe, angle and check valves along with bronze UL/FM OS&Y gate valves. United also manufactures ductile iron products such as wafer checks, groove checks and M X F check valves all of which are UL and F.M. approved.

Uponor Inc.

5925 148th Street West

Apple Valley, Minnesota 55124

Phone: 800-321-4739

FAX: 952.891.2008

Email: eric.skare@uponor.comWebsite: www.uponor-usa.com**Founded:**

1620 yes, 1620

Primary Products/Services:

Residential Fire Sprinkler Systems

Market Area:

North America

Management:

Eric Skare, Product Manager

Company Profile:

Uponor's PEX-a based AquaSAFE residential fire sprinkler systems are listed to UL 1821 and provide a flexible solution meeting NFPA 13D requirements. Uponor provides exceptional support, training, products and materials to ensure peace of mind for homeowners, installers and AHJ's.

**Victaulic Company**

4901 Kesslersville Road

Easton, Pennsylvania 18040

Toll-Free: 800.PICK.VIC

Website: www.victaulic.com**Founded:**

1925

Market Area:

Global

Management:

Bob Freidl, V.P., Market Dev.

Company Profile:

As the world's leading producer of grooved mechanical pipe-joining systems, Victaulic works collaboratively with its customers and affiliates worldwide to deliver innovative solutions across our core business areas. Our products and services put people to work faster while increasing safety, ensuring reliability and maximizing efficiency and sustainability. Visit www.victaulic.com and follow us on LinkedIn, Facebook, Twitter, and YouTube.



The Viking Group

210 N. Industrial Park Drive
Hastings, Michigan 49058
Telephone: 269-945-9501
Toll Free: 800-968-9501
FAX: 269-945-9599
Internet: www.vikinggroupinc.com

Founded:
1897

Primary Products/Services:

- Fire Sprinklers and Systems
- Fire Protection Valves
- CPVC Pipe and Fittings
- Fabrication Services
- VGS® Grooved Piping System
- Steel Pipe
- Threaded Fittings
- Hangers & Fasteners
- Electrical Products
- Foam Systems
- FDC Equipment
- Backflow Prevention
- Tools & Accessories

Market Area:
Worldwide

Hours of Operation:
24/7/365

Management:

Kevin Ortyl, Chairman and CEO, Viking Group
Joe Bardowski, Vice President - Operations, Viking SupplyNet
Tom O'Connor, President, Viking Corporation
Mike Bosma, Executive Vice President - Sales, Viking SupplyNet
Cary Nicol, Vice President - Sales, Viking SupplyNet

Sales Contact:

Jeff Norton, Vice President - Marketing, Viking Group
Tel: 269.945.8312

Company Profile:

Together, the companies of The Viking Group (Viking Corporation, Viking SupplyNet, Viking Fabrication Services, and Viking Plastics) provide integrated solutions for any fire protection challenge. With a comprehensive range of products and services, Viking provides much more than fire protection hardware. We help streamline the work of our customers. We help improve their quality of service. We help them grow their business.

The experience of our employees, our commitment to advancing fire protection technology, and

our high-quality, worry-free products and services all make Viking the single-source supplier for thousands of customers worldwide.

BRANCH OFFICES:

United States of America

The Viking Corporation
210 N. Industrial Park Drive
Hastings Michigan 49058
Telephone: 800-968-9501
Fax: 269-945-9599
products@vikingcorp.com

VIKING SUPPLYNET - SOUTH REGION

Viking SupplyNet (Atlanta)

Regional Headquarters
100 Piedmont Court, Suite A
Doraville, GA 30340
Telephone: 770-446-3068
Fax: 770-446-3713
south@supplynet.com
Sales Contact: Terry Pickvet, Adam Owens

Viking SupplyNet (Orlando)

503 Ocoee Business Parkway
Ocoee, FL 34761
Telephone: 407-656-7600
Fax: 407-656-7675
south@supplynet.com
Sales Contact: Jeff Trew, Adam Owens

Viking SupplyNet (Ft. Lauderdale)

2840 SW 42nd Street
Port 95 Ind Ctr Build IV
Fort Lauderdale, FL 33312
Telephone: 954-791-1756
Fax: 954-791-1614
south@supplynet.com
Sales Contact: Will Allgood, Adam Owens

Viking SupplyNet (Houston)

6911 Fairbanks North Houston Road,
Suite 100
Houston, TX 77040
Phone: 713-896-8464
Fax: 713-896-8429
south@supplynet.com
Sales Contact: Paul Swan, Jeff Graham

Viking SupplyNet (Dallas)

1011 N. 28th Avenue, Suite 200
Irving, TX 75261
Telephone: 972-466-0933
Fax: 972-466-0853
south@supplynet.com
Sales Contact: Perry Adams, Jeff Graham

Viking SupplyNet (Memphis)

Airport Distribution Center #8
4299 Air Trans Road
Memphis, TN 38118
Telephone: 901-360-9401
Fax: 901-360-9428
south@supplynet.com
Sales Contact: Tommy Haberman, Eric Collins, Adam Owens

Viking SupplyNet (Charlotte)

11517 Cordage Street, Suite P
Charlotte, NC 28273
Phone: 704-588-8880
Fax: 704-588-8650
south@supplynet.com
Sales Contact: Seth Pendleton, Adam Owens

VIKING SUPPLYNET - WEST REGION

Viking SupplyNet (Los Angeles)

Regional Headquarters
9101 Sorensen Ave.
Santa Fe Springs, CA 90670
Telephone: 562-903-7274
Fax: 562-944-1058
west@supplynet.com
Sales Contact: Dave Swanson, Jim Gudger, Jeff Hill

Viking SupplyNet (Phoenix)

625 E. Watkins Street
Phoenix, AZ 85004
Telephone: 602-252-0400
Fax: 602-252-2028
west@supplynet.com
Sales Contact: Kevin Kane, Jeff Hill

Viking SupplyNet (Bay Area)

1164 San Luis Obispo
Hayward, CA 94544
Telephone: 510-429-7295
Fax: 510-429-7297
west@supplynet.com
Sales Contact: Grady Smith, Augustine Raya, Jeff Hill

Viking SupplyNet (Las Vegas)

Cameron Business Center #1,
4701 Cameron Street, Suite D
Las Vegas, Nevada 89103
Telephone: 702-795-8002
Fax: 702-795-0105
west@supplynet.com
Sales Contact: Paul Cress, Jeff Hill

Viking SupplyNet (Seattle)

8001 S. 224th Street
Kent, WA 98032
Telephone: 253-872-8444

Fax: 253-872-8455
west@supplynet.com
Sales Contact: Dave Luckenbach, Jeff Hill

Viking SupplyNet (Denver)

12360 E. 46th Avenue #400
Denver, CO 80239
Telephone: 303-576-0665
Fax: 303-576-0611
west@supplynet.com
Sales Contact: Scott Franklin, Jeff Hill

Viking SupplyNet (Riverside)

6480 Box Springs Blvd.
Riverside, California 92507
Telephone: 951-656-3111
Fax: 951-656-2606
west@supplynet.com
Sales Contact: Jim Gudger, Dave Swanson, Jeff Hill

VIKING SUPPLYNET - MIDWEST REGION

Viking SupplyNet (Columbus)

Regional Headquarters
2353 International Street
Columbus, OH 43228
Telephone: 614-527-5800
Fax: 614-527-5818
midwest@supplynet.com
Sales Contact: Bob Fischer, Tom Bowers

Viking SupplyNet (Detroit)

26020 Mound Road
Warren, MI 48091
Telephone: 586-754-0004
Fax: 586-754-8020
Midwest@supplynet.com
Sales Contact: Sandy Richter, Tom Bowers

Viking SupplyNet (Chicago)

640 Center Avenue
Carol Stream, IL 60188
Telephone: 630-462-5860
Fax: 630-871-1898
northcentral@supplynet.com
Sales Contact: Ron Bergquist, Tom Bowers

Viking SupplyNet (St. Louis)

1600 Park 370 Place, Suite 10
Hazelwood, MO 63042
Telephone: 314-291-4800
Fax: 314-291-4806
northcentral@supplynet.com
Sales Contact: Chris Muschany, Tom Bowers

Viking SupplyNet (Kansas City)

1930 Warren Street
North Kansas City, MO 64116
Telephone: 816-474-1190

Fax: 816-474-8991
northcentral@supplynet.com
Sales Contact: Chris Muschany, Tom Bowers

Viking SupplyNet (Twin Cities)

305 Bridgepoint Drive, Suite 200
South St. Paul, MN 55075
Telephone: 651-455-0325
Fax: 269-818-1614
northcentral@supplynet.com
Sales Contact: Jason Wardour, Tom Bowers

VIKING SUPPLYNET - EAST REGION

Viking SupplyNet (New Jersey)

Regional Headquarters
4B Cranberry Road
Parsippany, NJ 07054
Telephone: 973-541-2580
Fax: 269-818-1639
east@supplynet.com
Sales Contact: Drew Slocum, Terry Laffey, Jim Dooley

Viking SupplyNet (New York City)

40-15 Northern Blvd.
Long Island City, NY 11101
Telephone: 973-541-2320
Fax: 269-818-1609
east@supplynet.com
Sales Contact: Drew Slocum, Terry Laffey, Jim Dooley

Viking SupplyNet (Philadelphia)

201 King Manor Drive
King of Prussia, PA 19406
Telephone: 610-279-3762
Fax: 610-277-3658
east@supplynet.com
Sales Contact: Jamie Wright, Jim Dooley

Viking SupplyNet (Baltimore / Washington)

8310 Sherwick Court
Jessup, Maryland 20794
Telephone: 301-490-5514
Fax: 301-490-5367
east@supplynet.com
Sales Contact: Jamie Wright, Jim Dooley

Viking SupplyNet (Richmond)

4593 Carolina Avenue
Richmond, Virginia 23222
Telephone: 804-228-1107
Fax: 804-228-1556
east@supplynet.com
Sales Contact: Ben Johnson, Jim Dooley

Viking SupplyNet (Boston)

60 Maple Street
Mansfield, MA 02048
Telephone: 508-594-1800
Fax: 269-818-1620
east@supplynet.com
Sales Contact: Sean O'Neill, Jim Dooley

VIKING FABRICATION SERVICES - U.S. LOCATIONS

Viking Fabrication Services (Southern California)

6480 Box Springs Blvd.
Riverside, California 92507
Telephone: 951-656-3111
Fax: 951-656-2606
vfriverside@supplynet.com
Sales Contact: Dave Swanson, Jim Gudger, Jeff Hill

Viking Fabrication Services (Phoenix)

625 E. Watkins Street
Phoenix, Arizona 85004-2935
Telephone: 602-252-0400
Fax: 602-252-2134
vfrphoenix@supplynet.com
Sales Contact: Kevin Kane, Jeff Hill

Viking Fabrication Services (Denver)

12360 E. 46th Avenue #400
Denver, Colorado 80239
Telephone: 303-576-0665
Fax: 303-576-0611
vfrdenver@supplynet.com
Sales Contact: Scott Franklin, Jeff Hill

Viking Fabrication Services (Bay Area)

1164 San Luis Obispo Street
Hayward, CA 94544
Telephone: 510-429-7295
Fax: 510-429-7297
vfrhayward@supplynet.com
Sales Contact: Grady Smith, Jeff Hill

Viking Fabrication Services (Chicago)

640 Center Avenue
Carol Stream, IL 60188
Telephone: 630-462-5860
Fax: 630-871-1898
vfrchicago@supplynet.com
Sales Contact: Ron Bergquist, Tom Bowers

Viking Fabrication Services (Columbus)

2353 International Street
Columbus, Ohio 43228
Telephone: 614-527-5800
Fax: 614-527-5818
vfrchicago@supplynet.com
Sales Contact: Bob Fischer, Tom Bowers

Viking Fabrication Services (Kansas City)

1930 Warren Street
 North Kansas City, MO 64116
 Telephone: 816-474-1190
 Fax: 816-474-8991
 northcentral@supplynet.com
Sales Contact: Chris Muschany, Tom Bowers

Viking Fabrication Services (New York Metro / New Jersey)

4B Cranberry Road
 Parsippany, NJ 07054
 Phone: (973) 541-2580
 Fax: (269) 818-1639
 vfsnewyorkmetro@supplynet.com
Sales Contact: Terry Laffey, Tim Christie, Drew Slocum, Jim Dooley

Viking Fabrication Services (Richmond)

4593 Carolina Avenue
 Richmond, Virginia 23222
 Telephone: 804-228-1107
 Fax: 804-228-1556
 vfsrichmond@supplynet.com
Sales Contact: Ben Johnson, Jim Dooley

Viking Fabrication Services (Atlanta)

100 Piedmont Court, Suite A
 Doraville, GA 30340
 Telephone: 770-446-3068
 Fax: 770-446-3713
 vfsatlanta@supplynet.com
Sales Contact: Terry Pickvet, Adam Owens

Viking Fabrication Services (Houston)

6911 Fairbanks North Houston Road
 Suite 100
 Houston, TX 77040
 Phone: (713) 896-8464
 Fax: (713) 896-8429
 vfshouston@supplynet.com
Sales Contact: Paul Swan, Jeff Graham

Viking Fabrication Services (Dallas)

1011 N. 28th Avenue, Suite 200
 Irving, TX 75261
 Telephone: 972-466-0933
 Fax: 972-466-0853
 south@supplynet.com
Sales Contact: Perry Adams, Jeff Graham

CANADA

Viking SupplyNet (Toronto)

325 Vaughan Valley Blvd.
 Woodbridge, Ontario L4H 3B5
 Phone: (905) 856-3557
 Fax: (905) 856-3558
 toronto@supplynet.com

Sales Contact: Guy Vachon, Harv Hughey

Viking SupplyNet (Vancouver)

9938 201 St., Unit 2
 Langley, British Columbia V1M3E9
 Phone: (604) 882-2766
 Fax: (604) 882-2762
 vancouver@supplynet.com
Sales Contact: Nicole Andreassen, Harv Hughey

Viking SupplyNet (Calgary)

#42 4216 54th Avenue SE
 Calgary, Alberta T2C 2E3
 Phone: 403-203-5681
 Fax: 403-203-5682
 calgary@supplynet.com
Sales Contact: Harv Hughey

SCS CANADA (Quebec) (Independent Distribution Partner)

1935 Lionel Bertrand Blvd.
 Boisbriand, Quebec J7H 1N8
 Telephone: 450-430-7031
 Fax: 450-430-9170
 scs@polygon.ca

MEXICO

Viking SupplyNet

1011 N. 28th Avenue, Suite 200
 Irving, TX 75261
 Telephone: 972-466-0933
 Fax: 972-466-0853
 latinamerica@supplynet.com
Sales Contact: Art Gutierrez

LATIN AMERICA AND THE CARIBBEAN

Viking SupplyNet

2840 SW 42nd Street, Bldg IV
 Fort Lauderdale, FL 33312
 Telephone: 954-791-2901
 Fax: 954-791-1181
 latinamerica@supplynet.com
Sales Contact: Art Gutierrez

ADDITIONAL LOCATIONS – EUROPE AND MIDDLE EAST

Europe – Headquarters

Viking EMEA
 Zone Industrielle Haneboesch
 L-4562 Differdange/Niedercorn, Luxembourg
 Telephone: +352-58-37-37-1
 Fax: +352-58-37-36
 vikinglux@vikingcorp.com

Additional Locations - Europe

- France
- The Netherlands

- Luxembourg
- Germany
- Romania
- Poland
- Sweden (Stockholm)
- Sweden (Knivsta- fabrication)
- Italy
- Spain
- United Kingdom (Epworth)
- United Kingdom (West Midlands)
- United Arab Emirates
- Turkey
- Israel
- Russia

Asia - Headquarters

The Viking Corporation (Far East) Pte. Ltd.
 69 Tuas View Square
 Westlink Techpark
 Singapore 637621
 Tel: (+65) 6 278 4061
 Fax: (+65) 6 278 4609
 vikingsingapore@vikingcorp.com
Sales Contact: Franklin Gong

Additional Locations - Asia

- Japan
- Hong Kong
- Korea
- China (Shanghai)
- India (Bangalore)
- India (New Delhi)

SOUTHERN HEMISPHERE LOCATIONS

AUSTRALIA

(Independent Distribution Partner)

Viking Fire Protection Supplies Pty. Limited
 95 - 99 Hardys Road, Underdale SA 5032,
 Australia
 Telephone: +61-8-8352-2888
 Fax: +61-8-8352-2755
 fireprot@e-access.com.au
Sales Contact: Rick Tanner

SOUTH AFRICA

(Independent Distribution Partner)

Firequip CC
 P.O. Box 14579, Bredell 1623, South Africa
 Telephone: +27-11-396-1800
 Fax: +27-11-396-1810
 dave@firequip.co.za
Sales Contact: Dave Martin

NEW ZEALAND

(Independent Distribution Partner)

Viking Sales & Services Limited
 12 Cornish St, Korokoro Lower Hutt 5012
 P.O. Box 30737
 Lower Hutt 5040, New Zealand

Telephone: +64-4-589-0856
 Fax: +64-4-589-0413
 vikingnewzealand@vikingcorp.com
Sales Contact: Peter Clark

Viking Sales & Services - AUCKLAND

Unit 4, 17 Airpark Drive
 Airport Oaks, Auckland 2022
 New Zealand
 Tel: (+64) 9 969 9009
 Fax: (+64) 9 969 9007
 vikingnewzealand@vikingcorp.com

Watts

815 Chestnut Street
 North Andover, Massachusetts 01845
 Phone: 978.688.1811
 FAX: 978.794.1848
 Website: www.watts.com

Management:

Ken Nolan, National Product Manager

Company Profile:

Founded in 1874, Watts, part of the Watts Water Technologies family, is one of the world's largest independent valve companies with 10 factories in the United States and Canada. Watts Regulator designs, manufactures, and sells an extensive line of flow control products for the water quality, residential plumbing and heating, commercial and OEM markets.

F.W. Webb Company

152 Will Drive
 Canton, Massachusetts 02021
 Phone: 781. 828.5559
 FAX: 781. 828.8060
 Website: www.fwwebb.com

Company Profile:

With 22 years of sprinkler fabrication and distribution experience from a single branch in Stoughton, MA, F.W. Webb Company has executed a fire protection expansion plan by opening a 50,000 sq. ft. state-of-the-art fabrication plant in Canton, MA and simultaneously added fire protection inventories throughout New England and Upstate New York.

Additionally, we've invested in dedicated sprinkler salespeople at these locations, namely, Cranston, RI; Hartford, CT; Albany, NY; Williston, VT and Portland, ME. Our mission is to grow our business by constantly and consistently improving customer service, providing high quality products

at a fair price, and investing in new technology that provides sustainable value to our customers.

Wheatland Tube Company

700 S. Dock Street
 Sharon, Pennsylvania 16146
 Phone: 724.983.1692
 Toll Free: 800.257.8182
 FAX: 724.346.7260
 Website: www.wheatland.com

Founded:

1877

Primary Products/Services:

Sprinkler, Standard Pipe, Mechanical A53 and A106 Seamless Fence Framework and electrical conduit.

Sales Contact:

Bob Bussiere, GM Fire Sprinkler Sales

Company Profile:

Wheatland Tube Company has a broad range of listed and approved steel pipe for use in fire sprinkler systems., from our engineered light wall family of Mega products to standard wall schedule 10 & 40 with sizes to 8". MIC SHIELD™ is the only factory applied antimicrobial coating approved by FM and Lubrizol for use in hybrid sprinkler systems in conjunction with CPVC fire sprinkler systems. Wheatland has products to suit your steel sprinkler applications. For engineering ease, Wheatland also offers the needed seismic and hydraulic calculation data on all products for proper design applications.

Wilkins, a Zurn Company

1747 Commerce Way
 Paso Robles, California 93446
 Phone: 805.238.7100
 FAX: 805.238.5766
 Website: www.zurn.com

Founded:

1906

Primary Products/Services:

Valves for Fire Suppression Systems

Market Area:

Worldwide

Hours of Operation:

6:30 a.m. . 5:00 p.m. PST Mon..Fri.

Management:

Chris Connors, General Manager
 Rick Fields, Vice President, Sales & Marketing
 Mike Mallas, Sales Manager Fire Protection

Rachael Wiley.Steffen, Director of Brand Marketing

Sales Contact:

Paul Wait, National Sales Manager
 Phone: 805.226.6296
 FAX: 805.238.5766

Company Profile:

Wilkins, a Zurn Company, offers a complete line of American made factory set, easy field adjustable, and master zone control valves. Available in 1½" – 6" sizes, in angle and inline pattern and threaded, flanged, and grooved connections.

Let's stay in touch!



International Fire Sprinkler Association Board of Directors

Bruce LaRue - Chairman

Potter Electric Signal Company
1609 Park 370 Place
Hazelwood, MO 63042
Phone: (314) 878-4321
Fax: (314) 878-7264
blarue@pottersignal.com

Bodo Mueller - Vice Chairman

Job GmbH
Kurt-Fischer - Str. 30
Ahrensburg
Hamburg, D22926
Germany
Phone: 011 49 4102 2114 0
Fax: 011 49 4102 2114 70
Bodo.mueller@job-bulbs.com

Kevin Fee - Treasurer

Reliable Automatic Sprinkler Company
103 Fairview Park Drive
Elmsford, NY 10523
Phone: (914) 829 2100
Fax: (914) 592 8605
kfee@reliablesprinkler.com

Rekha Agrawal

Tyco Fire Protection Products
1400 Pennbrook Parkway
Lansdale, PA 19446-2270
United States
Phone: (215) 362-0700
Fax: (215) 362-8727
rekha.agrawal@tycofp.com

Kerry Bell

Underwriters Laboratories
333 Pfingsten Road
Northbrook, IL 60062-2096
United States
Phone: (847) 664 2629
Fax: (847) 313 2629
kerry.m.bell@ul.com

Mike Dooley

FlexHead Industries/Atkore International
56 Lowland Street
Holliston, MA 01746
United States
Phone: (800) 829-6975 x25
Fax: (508) 893-6020
mdooley@flexhead.com

Ray Fremont

General Air Products, Inc
118 Summit Dr
Exton PA, 19341
USA
Phone: (610)-524-8950
rmfremont@generalairproducts.com

Nicholas D. Groos

Viking Group
Zone Industrielle Haneboesch
Differdange, L-4562
Luxembourg
Phone: 011 352 5837 371
Fax: 011 352 5837 36
GroosN@viking-emea.com

Huseyin Gumrukcu

Duyar
Uğur Mumcu Mahallesi 2347.Sokak
No:7 34265 Sultangazi
Istanbul
Türkiye
Phone: +90 212 668 18 08
Huseyin.Gumrukcu@duyarvana.com.tr

Martin Harvey

Tyco Fire and Security
Security House - The Summit
Handworth Road - Sunbury-On-Thames
Middlesex TW16 5DB
England
Phone: 011-44(0)1932 743-478
Fax: 011-44(0) 932-77-0683
mharvey@tycoint.com

Klaus Hofmann

Minimax GmbH & Co KG
Industriestrasse 10/12
Postfach 1260
Bad Oldesloe
Germany D-23840
Phone: 011 49 45 318 03 252
Fax: 011 49 45 318 03 137
hofmannk@minimax.de

Mark Knurek

Lubrizol Advanced Materials
9911 Brecksville Road
Brecksville, OH 44141-3201
United States
Phone: (216) 447-6268
Fax:
mark.knurek@lubrizol.com

Paris Stavrianidis

FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States
Phone: (781) 255-4810
Fax: (781) 762-9375
paris.stavrianidis@fmapprovals.com

Larry Thau

Victaulic
4901 Kesslersville Road
Easton, PA 18040
United States
Phone: (610) 559-3300
Fax: (610) 923-3971
lthau@victaulic.com

Steven Worthington

Globe Fire Sprinkler Corp
4077 Air Park Drive
Standish, MI 48658
United States
Phone: (989) 846-4583
Fax: (989) 846-9231
stevenworthington@globesprinkler.com

NFSA PROFESSIONAL MEMBERS GUIDE

INDIVIDUALS

Tom Christman
Caryville, Tennessee

Kathryn Cifa
Ashburn, Virginia

Erin Clayton
Elizabeth, Colorado

Robert Cummings
Bow, New Hampshire

John Farabee
Hollywood, Florida

Brandon Friel
Denver, Colorado

Thomas Gemmer
Fisherville, Kentucky

James Golinveaux
Winter Garden, Florida

Ahmed Himdi
Drexel Hill, Pennsylvania

Kacee Lawlor
Ledyard, Connecticut

Luis Rodolfo Rivera Nava, Architect
Calexico, California

Peter Neilio
Tampa, Florida

Charles Ortiz
Deltona, Florida

Danette Parker
Lubbock, Texas

Angela Sosnosky
Poland, Ohio

Augusta Thomas
Millville, Delaware

David Urenda
Castle Rock, Colorado

BUSINESSES

AR Sanchez & Associates
PO Box 194423
San Juan, Puerto Rico 00919-4423
Phone: 787.765.7204
FAX: 787.281.6963
Contact: Alex Sanchez, Engineer
Email: alex@arsanchez.com

Academy of Fire Sprinkler Technology, Inc.
301 N Neil St Ste 423
Champaign, IL 61820-3170
Phone: 207.607.0325
Contact: Cecil Bilbo
Email: cecil@sprinkleracademy.com
Website: www.sprinkleracademy.com

Accént Fire Engineering International, Ltd.
4001 Office Court Dr. Ste 606
Santa Fe, NM 87507
Phone: 800.503.1961
FAX: 505.474.4184
Email: accentfire@aol.com
Contact: Jerry D. Watts, S.F.P.E., President
Services: Licensed fire protection engineers (AZ, CA, CO, NM, NV, NY, MD, TX); Certified inspectors/investigators (C.F.I.); Plans review and design.

Accord Solutions Group
233 SW Greenwich Dr. #145
Lees Summit, MI 64082
Phone: 913.735.0373
contact: Brandon Folse

Advanced Fire Protection Design
10211 Greenfield Circle
Parker Colorado 80134-3773
Phone: 720.440.2637
Contact: Brian Houser, Owner

AEI Corporation
8197 W. Brandon Dr.
Littleton, CO 80125
Phone: 303.339.3240
FAX: 303.756.2911
Contact: Charlie Sullivan
Website: www.aeiengineers.com

AES FPS LLC
29009 188th Ave SE
Kent, WA 98042
Phone: 253.630.5321
Contact: JD Harpole, III

Allianz Risk Consulting, LLC
PO Box 3331
Iowa City, IA 52244
Phone: 319.354.9800
FAX: 319.354.1010
Contact: Traci Huffman
Email: traceh67@mchsi.com

Altieri Sebor Wieber Consulting Engineers
31 Knight St.
Norwalk, CT 06851
Phone: 203.866.5538
website: www.altieriseborwieber.com
Contact: David Lussier, Engineer
Email: dlussier@altierisw.com
Products/Services: Building systems, mechanical engineering, including basic and state of the art fire detection and fire protection for a variety of projects including museums, performing arts centers, residential projects with specific climate control requirements, various collegiate applications (academic, administrative and performance applications) etc.

Alvine Engineering
1102 Douglas Street
Omaha, NE 68102
Phone: 402.346.7007
FAX: 402.346.9576
website: www.alvine.com
Contact: Nicholas Bernard
Email: nbernard@alvine.com

Amped I R&D

6 Ferndale Rd
Seven Valleys, PA 17360-9660
Phone: 312.351.5919
Contact: James "Andy" Lynch
email: jlynch@ampedi.com

Aon Fire Protection

Engineering
1000 Milwaukee Avenue Fl 5
Glenview, IL 60025
Phone: 847.953.7700
Fax (Chicago): 847.953.7793
Fax: (Corporate): 847.953.7756
Contact: Daniel O'Connor P.E.
Website: www.AonFPE.com
Services: Fire Protection Engineering, Fire Sprinkler and Alarm Design Services, Code Consulting, Life Safety Evaluations, High Piled Storage Analysis, Mass Notification System Design, Smoke Modeling.

Aon Fire Protection

513 Sparkling Brook Dr.
Leander, TX78641
Phone: 512.241.2105
Contact: Jerry Hunter

Applied Fire Protection Services

14401 Sweitzer Lane Ste. 40
Laurel, MD 20707
Phone: 301.595.5558
FAX: 301.595.5444
Website: www.afpengineering.net
Contact: Michael Pleszkoch, Jr., V.P.
Services: Applied Fire Protection Engineering provides the complete range of fire protection design, consulting and inspection services. See our website: www.afpengineering.net.

Aquatech, Inc.

680 Heacock Rd. Ste. 204
Yardley, PA 19067-6346
Phone: 215.783.5510
FAX: 215.790.0404
Contact: Rocco Dillio
Email: rdillio@aq2000.com

Associates Engineering Systems LLC

5445 Wakefield Ave.
Mount Pleasant, WI 53406
Phone: 262.898.9160
Website: www.associatesengineering.com
Contact: Mark E. Miller, P.E., President
Services: Consulting and design of fire protection systems. Please see website for details.

As-Tech Industries, Inc

728 Moonraker Ct.
Galloway, NJ 08205
Phone: 609.442.3372
Contact: Greg Loomer, President

Astor Park Designs

2188 Masters St.
Beloit, WI 53511-2726
Phone: 920.883.1047
Contact: Samuel Nelson

Automatic Fire Suppression Design

4622 Cleveland St.
St. Louis, MO 63110-3312
Contact: William Woodward, Designer



Baja Design Engineering S.C.

Alfonso Esquer Sandez 1215-3er
Industrial CP 21010 Mexicali, Mexico
Calexico, CA 92231
Phone: 686.905.9855
Website: www.bajadesign.com.mx
Contact: Frank Guzman
email: fguzman@globalmechanical.com.mx
Products/Services: Fire protection systems. Systems designed according to international codes, norms and local ordinances on fire protection. Automatic sprinkler systems. Protection systems with hose cabinets. Pumping systems and storage tanks. Special extinguishing systems. Special risks, Hydraulic calculations.

Seismic calculations. Fire Alarm systems. We provide engineering to develop special projects of fire protection alarms. Notification systems (pull-down stations and sirens). Monitoring systems and sprinkler systems, supervision, pumping equipment and water reservoir tanks. Smoke detection systems, directional/conventional. Projected beam detection, detection by smoke aspiration. Special gases detection. Intelligent control panels, Remote events monitoring. Smoke Control and handling.

BCE Engineers, Inc

6021 12th Street E. Ste. 200
Fife, WA 98424
Phone: 253.922.0446
FAX: 253.922.0896
Contact: Fred Blanchard

BCER Engineering, Inc.

5420 Ward Rd.
Arveda, CO 80002
Phone: 303.422.7400
Contact: Stephen Rondinelli

Berners Schober

310 Pine Street
Green Bay, WI 54301
Phone: 920.569.8685
Contact: Jesse Leipert, Fire Protection Designer

BMT Engineering, P.C.

333 West Main Street
Boonton, NJ 07005
Phone: 973.331.5121
FAX: 973.331.0544
Contact: Thomas Bravante, P.E., President
Services: Full service fire protection engineering firm.

BRG Fire Sprinkler Design

12650 Blosser Road
No. Lima, OH 44452
Phone: 330.207.4312
Contact: Benjamin Pahanish

Briggs & Stratton

4231 S. Griffin Ave.
Milwaukee, WI 53207
Phone: 414.256.5170
Contact: George Borowski

Burns & McDonnell

8201 Norman Center Dr.
Ste. 300
Bloomington, MN 55437
Phone: 612.781.3827
Contact: Paul Watercott

Calico-Sterling Company

1015 Acacia Lane
Davis, CA 95616-3213
Phone: 530.219.1960
Contact: William Green
Email: billgreene@calico-sterling.com
Products/Services: Fire Protection Consultant

Carlson Design

55 Red Stone Dr.
Weatogue, CT 06089
Phone: 860.651.0622
FAX: 860.651.1221
Contact: Leslie Carlson

CDM Smith

125 S. Wacker Dr. Ste 600
Chicago, IL 60606-4437
Phone: 312.346.5000
Contact: April Ricketts, Owner

Centerline Design, LLC

6361 W. 800 N.
McCordsville, IN 46055
Phone: 317.410.2200
Contact: Patrick Murray, Owner
Email: pmurray@centerlinedesignllc.com

Certified Design Systems, Inc.

14609 S. Woods Landing
Draper, UT 84020
Phone: 801.878.9008
FAX: 801.878.9008
Contact: Jeff Johnson, President

Charles G. Michel Engineering PC

470 Mamaroneck Ave. Ste 411
White Plains, NY 10605
Phone: 914.949.5112
FAX: 914.949.5116
Contact: Charles Michel
Email: cmichel@cgmengineering.com

Cinnco, Inc.

621 E. Grand Ave.
Fruita, Colorado 81521
Phone: 970.261.0660
Contact: Gary Curtis
Email: gcurtis@cinnco.com

City of Rochester Hills

1000 Rochester Hills Dr.
Rochester Hills, MI 48309+
Phone: 248.841.2434
FAX: 248.656.4623
Contact: Ken Nightlinger, Mechanical & Plumbing Inspector

Climatec

2851 W. Kathleen Rd.
Phoenix, AZ 85053
Phone: 480.440.6932
Website: www.climatec.com
Contact: Scott Patterson

Code Consultants, Inc.

2043 Woodland Parkway, Ste 300
St. Louis, Missouri 63146
Phone: 314.991.2633
FAX: 314.991.4614
Website: www.codeconsultants.com

Contact: Will Smith, FPE

Services: Internationally recognized fire protection and life safety consulting firm, providing a diverse range of crucial fire protection and life safety consultation and design services.

Codes-Based Solutions, LLC

1224-B Columbia Ave. Ste 110
Franklin, Tennessee 37064
Phone (615) 804-1349
Website: www.codesbasedsolutions.com
Email: rtrotter@codesbasedsolutions.com
Contact: Robert Trotter, Owner, Sr. Fire Protection Consultant
Services: Codes-Based Solutions, LLC. —an independent consulting firm specializing in a broad range of fire protection, life safety, and codes-based consulting services, locally and nationally. The firm provides codes-based solutions for the built environment and our expertise ranges from homes to high-rise.

Coffman Engineering

2011 N 22nd Ave.
Bozeman, MT 59718-2781
Phone: 406.582.1936
Website: www.coffman.com
Contact: Mark Gouveia, Engineer

Collado Engineering PC

2 Holland Ave.
White Plains, NY 10603
Phone: 914.332.7658
FAX: 914.332.7659
Website www.collado-eng.com
Email: info@collado-eng.com
Contact: Albert Collado, P.E.
Services: Consulting Engineering

ConocoPhillips Alaska

105 Strawberry Ln.
Longview, WA 98632-9846
Phone: 360.703.1611
Contact: Robert Fitzsimmons

Consolidated Utility District

PO Box 249
 Murfreesboro, TN 37133
 Phone: 615.867.7302
 FAX: 615.893.4913
 Website: www.cudrc.com

Consulting Engineering Services, Inc.

811 Middle St.
 Middletown, CT 06457
 Phone: 860.632.1682
 FAX: 860.682.1768
 Contact: Delbert Smith, Jr. Principal

Crane Engineering

2355 Polaris Lane North
 Ste 120
 Minneapolis, MN 55447
 Phone: 763.557.9090
 FAX: 763.557.0710
 Contact: Scott Nesvold, Metallurgical Engineer

Daniel Building Investigations, Inc.

1246 Abbey Oaks Dr.
 Lemont, IL 60439
 Phone: 630.803.2071
 FAX: 331.318.8956
 Website: www.danielbi.com
 Contact: James Daniel

Dave Watson Associates

1325 West Beecher Rd.
 Adrian, MI 49221
 Phone: 517.263.8988
 FAX: 517.263.2328
 Contact: Dave Watson

Davidson Fire Protection Services, Inc.

5270 Princeton Rd.
 Liberty Township, OH 45011-8412
 Phone: 513.887.0016
 Fax: 513.887.0059
 Contact: Ralph Davidson, C.E.T.

Services: 40 years water based system design and consulting experience. Preliminaries, detailed shop drawings & hydraulic calculations. NICET certified. Will travel.

Design Line Fire Protection, Inc.

7910 171st Lane NW
 Ramsey, MN 55303
 Phone: 763.274.0768
 FAX: 763.241.1659
 Email: dsgline@aol.com
 Contact: Bruce Thomas, Owner
 Products/Services: All types of design @ 3D coordination. 28 years in the trade.

Donald Mayo-Fire Protection Consultant, Inc.

150 Grove Circle
 Pleasant Hill, CA 94523
 Phone: 925.933.6299
 FAX: 925.933.6288
 Website: www.donaldmayo.com
 Contact: Donald Mayo, President
 Services: Code consulting, fire detection & suppression systems specifications, risk and hazard assessment, plan review for code and standards compliance, property inspections and life safety analysis.

Draw 4 Me Fire Systems

4045 Almodro Ct.
 Modesto, California 95355
 Phone: 209.543.6190
 FAX: 866.927.3129
 Contact: Aaron Juarez



Dyne Technologies LLC

2357 Ventura Drive Ste. 108
 Woodbury, MN 55125-1944
 Phone: 651.917.0644
 FAX: 651.917.0646
 Website: www.dyneusa.com
 Email: julie@dyneusa.com
 Contact Name Julie Bunch, Customer Service

Manager

Products or Services: Dyne is an independent compliance testing laboratory, servicing customers throughout the world. Dyne makes it easy for you to stay compliant with critical fire protection and safety codes. Testing offered:

- Fire Fighting Foam, tested to NFPA 11 and 18 and IMO 1312 standards.
- Antifreeze solution used in sprinkler systems, tested to the NFPA 25 standard.

Dyne Technologies is ISO 9001 certified and operates under a strict quality management system. We offer customer service that is second to none with free sample test kits, shipping included (within the continental United States), online test results, laminated tank tags and direct communication with our staff of chemists if you should have a question regarding your results.



EBL Fire Engineering-Div. of EBL Engineers

8005 Harford Rd.
 Baltimore, MD 21234
 Phone: 410.668.8000
 FAX: 410.668.8001
 Contact: Jeffrey Paul McBride
 Email: jmcbride@eblengineers.com
 Products/Services: EBL's fire protection division includes licensed fire protection engineers specifically trained in risk analysis, hazard assessment and the design of fire protection and detection systems.

Elite Sprinkler Design & Consulting, Inc.

2361 Niles-Cortland Rd. N.E.
 Cortland, OH 44410
 Phone: 330.638.5050
 FAX: 330.638.5332
 Contact: Michael Eddy
 Email: mike@elitesprinklerdesign.com

Engineered Design Group

31 Nathan Hale Pl.
 Freehold, NJ 07728-1386
 Phone: 732.761.0108
 FAX: 732.761.0109
 Contact: Paul Schwartz



Engineered Fire Systems, Inc.

11832 Tammy Way
Grass Valley, CA 95949
Phone: 530.274.9400
Fax: 530.274.9488
Website: www.efs1.com
Email: eprice@efs1.com
Contact: Eric Price, SET, President Products/
Service: Fire sprinkler system shop drawings,
calculations and material lists.

Engineering Dynamics Corp.

66 Wailani Street
Wailuku, HI 96793
Phone: 808.242.1644
FAX: 808.242.0838
Contact: Douglas Gomes, P.E.

Engineering Systems, Inc.

6230 Regency Pkwy
Norcross, Georgia 30071-2348
Phone 678.990.3280
Contact: Michael Hayes

ESDC, Inc.

624 S. Boston Ave. Ste 600
Tulsa, OK 74119
Phone: 918.949.3670
Website: www.esdcengineering.com
Contact: Lloyd Herndon

Exponent Failure Analysis Associates

9 Strathmore Rd.
Natick, MA 01760
Phone: 508.652.8500
FAX: 508.652.8599
Website: www.exponent.com
Contact: Andrew Ellison, Managing Engineer

Exponent Inc.

17000 Science Dr. Ste. 200
Bowie, MD 20715
Phone: 301.291.2501
FAX: 301.291.2599
Contact: Richard Long, Jr., Principal Engineer &
Office Director
Website: www.exponent.com/fire_protection_engineering
Services: Provide engineering failure analysis and
forensic fire protection engineering services for
subrogation and litigation purposes. Also perform
traditional fire/life safety evaluations/analyses.

Fire Design, Inc.

1131 Kings Crown Rd.
Woodland Park, CO 80132
Phone: 719.488.3479
Website: www.fire-design.com
Contact: Cliff Whitfield, President
Email: cliff@fire-design.com
Products/Services: Established in late 2002, we
provide fire sprinkler shop/submittal drawings
prepared in 3D format using AutoSPRINK. Our
team is comprised of NICET III & IV certified
designers that have worked on projects of all
sizes and complexities. We have specialized in
3D coordinated projects for the past seven years.

Fire Dynamics/Henderson Engineers, Inc.

8345 Lenexa Drive Ste 300
Lenexa, KS 66214
Phone: 913.742.5539
Website: www.hei-eng.com or www.hei-fire.com
Contact: Eric Neill, Senior FP Designer
Email: eric.neill@hei-eng.com
Services: Fire Sprinkler, Fire Suppression,
Special Hazards and Fire Alarm System Design
and Commissioning. Life Safety and Code
Consulting Services, Insurance and Fire Origin
Investigations.

Fire Protection Design Consultant

2294 Georgetown Circle
Aurora, IL 60503
Phone: 630.638.0265
Contact: Joseph M. Henk, Fire Sprinkler Designer

Fire Protection Design, Inc.

14 Denver Dr.
New City, NY 10956-2305
Phone: 845.634.2133
Fax: 845.623.1533
Contact: Michael Koutsoftas

Fire Safety Consultants, Inc.

2420 Alft Ln.
Elgin, IL 60124
Phone: 847.697.1300
Contact: Keith S. Frangiamore, President
Email: kfrangiamore@firesafetyfsci.com

Fire Systems Enterprise, Inc.

PO Box 12573
Albany, NY 12212
Phone: 518.381.6026
FAX: 518.381.6026
Contact: Richard Fifield
Email: rfifield@nycap.rr.com
Products/Services: FP Design shop drawings,
NICET level IV. Personally, over 40 years
experience while the corporation has over 30!

Fire-Ex Systems Engineering, Inc.

3500 Stewart Ave.
Wausau, WI 54401
Phone: 715.359.5684
Website: www.firexsys.com
Contact: Russ Slaby
Email: russ@firexsys.com
Services:
What We Do:
On time, coordinated 3D design from plan or on
site survey anywhere in the world. Hydraulic
calculation and/or analysis of new or existing
systems for purposes of new design approval,
occupancy changes or system evaluation.
Production of detailed and pre-coordinated shop
drawings for submittal to AHJ for approval, pre-
fabrication and installation. AS-built drawings
can be provided if desired as part of the order.
Composite listing of all materials required to
fabricate and install the system. In addition, we
can provide a list of piping to be pre-fabricated
and group by line and main designation.
Pre-construction planning and preliminary
drawing preparation. This can include help in

developing budgets for the purpose of submitting project AFEs. Our company provides real world application and design intended for the prefabrication and finally installation by others. While we do not offer installation, we do provide completed design with stock lists and shop drawings that can be issued for true "apples to apples" bid results. You can be in control of your installation and know that every installer was bidding from plans and specs indicating material and an installation you have already approved.

FireSmart Building Technology, LLC

129 Brody Rd.
Chapin, SC 29036-8800
Phone: 617.293.5340
Fax: 617.293.5340
Contact: Peter Barbadoro, Engineer

Florida Fire Protection Consultants, Inc.

1734 Kingsley Ave Ste 3
Orange Park, FL 32073-4418
Phone: 904.579.1335
FAX: 904.579.2434
Email: jduke@ffire.com
Website: www.ffire.com
Contact: Jim Duke, President
Services: We provide fire protection design, 3D-BIM coordination & consultant services.

FOGG Fire Protection Consulting

1961 W. Kentucky Ave.
Denver, CO 80223
Phone: 303.934.7765
Contact: Marvin Heath, Principal

Forensic Services Group

5154 E 65th St
Indianapolis, Indiana 46220
Phone: 317.577.0477
Contact: David Zedonis
Email: dzedonis@forensicsg.com

Fortier Engineering

5889 Forbes Ave. Ste 330
Pittsburgh, PA 15217
Phone: 412.521.1880
Website: www.fortierengineering.com
Contact: Daniel Fortier, Principal
Email: dfortier@fortierengineering.com
Services: Fire Suppression systems design, HVAC & Plumbing systems design, Energy Modeling, Commissioning & LEED consulting.

FP Engineering

2614 Canterbury Circle
Rockledge, FL 32955-6524
Phone: 239.560.1404
Email: fpengineering@cfl.rr.com
Products/Services: FLORIDA CONTRACTORS: Fire Sprinkler Systems review and certification by a qualified FP Engineer, for conformance with Florida's FAC 61G15.

FP2FIRE

1140 Indian Peak Rd.
Golden, CO 80403-9403
Phone: 303.642.3547
Website: www.fp2fire.com
Contact: Martin Gresho

FPS Ingenieria S.C.

PO Box 2812
Calexico, CA 92232-2812
Phone: 686.841.0300
Contact: Frank Guzman Hernandez

Furman Insurance Agency

1314 E. Atlantic Blvd.
Pompano Beach, Florida 33060
Phone: 954.943.5050
FAX: 954.590.9964
Contact: Carlos Chinchilla

G. Tim Stone Consulting, LLC

117 Old Stage Rd.
Essex Junction, VT 05452-2518
Phone: 802.434.2968
Contact: Tim Stone

Gagnon Engineering

2660 Daisy Rd.
Woodbine, MD 21797.8126
Phone: 301.461.6949
Fax: 401.489.0140
Contact: Robert Gagnon

Global Fire Suppression & Mechanical Products LLC

10634 Grand Riviere Dr.
Tampa, FL 33647
Phone: 813.760.3860
Contact: George Benitez

GoCAD, LLC

3168 Willow Springs Circle.
Venice, FL. 34293
Phone: 941.244.0252
FAX: 888.234.4150
Contact: Gus Olson

GSM Fire Design

6101 Chickaloon Dr.
McHenry, IL 60050
Phone: 815.791.9100
Website: www.gsmfdinc.com
Contact: Gene Melnytschuk
Email: gene@gsmfdinc.com

Guardian LLC

809 N. Broadway St.
New Philadelphia, OH 44663-1344
Phone: 973.634.7360
Contact: Greg Shaw

Hakenwerth Fire Sprinkler Design

359 Shockdrake Ct.
Wentzville, MO 63385
Phone: 636.332.9578
FAX: 636.327.8750
Email: hfsdesign@centuryPhone.net
Contact: Tony Hakenwerth, Owner
Services: Fire sprinkler system design.

Harrington Group, Inc.

2400 Meadowbrook Pkwy #250
Duluth, GA 30096-4635
Phone: 770.564.3505
FAX: 770.564.3509
Website: www.hgi-fire.com
Contact: Diane Stone
Email: dstone@hgi-fire.com

Products/Services:

Harrington Group, Inc. is an engineering design and consulting firm with offices in metro Atlanta, Georgia and Charlotte, North Carolina. Our firm specializes in Fire Protection Engineering, Forensic Engineering and Property Loss Control Consulting. Established in 1986, the firm has grown to become one of the largest and most experienced practices headquartered in the southeast region dedicated to these fire protection engineering specialties.

Design & Consulting:

Design and consulting services vary widely according to the client's need, from a relatively simple sprinkler design to a highly specialized AFFF foam/water deluge or FM-200 gaseous fire extinguishing system. Sophisticated code analysis or computer fire modeling is often provided to satisfy a client's need. The primary objective of design and consulting is to provide cost-effective, reliable defenses against the threat of fire for life, property and business operations.

Hawk Fire Protection & Design, LLC

177 Jupiter Trail
Weatherford, TX 76088
Phone: 817.594.4454
FAX: 817.594.9775
Contact: Mark Davis
Email: hawkfire@uwmil.com
Services:
Fire sprinkler system design services. NICET III certified and RME-G. Utilize HydraCAD and AutoSprink design software. Can provide drawings for BIM Coordination.

HCC & Associates, Inc.

PO Box 8085
West Grove, PA 19390-0885
Phone: 302.369.6901
Website: www.hccassoc.com
Contact: Hal Cohen

Hixson

4961 Shirley Pl.
Cincinnati, OH 45238-3504
Phone: 513.241.1230
Website: www.hixson-inc.com
Contact: Mike Rahe

Honda North America

680 Doorley Rd.
Sidney, OH 45238-3504
Contact: Rick Paulus

Horizon Engineering & Fire Protection, Inc.

14725 Balgowan Rd. #205
Miami Lakes, Florida 33016
Phone: 305.494.0994
FAX: 305.494.8111
Contact: Juan Fajet, P.E.

Hughes Associates, Inc.

4445 Northpark Dr.
Ste 204
Colorado Springs, CO 80907-4264
Phone: 720.441.6608
Contact: Paul Angelo

Hydro Fire Services

PO Box 130357
Tampa, Florida 33611
Phone: 813.442.6776
Contact: Charles Ben Toney

HYT Corporation

3498 Clayton Rd. Ste 101
Concord, California 94519
Phone: 925.681.2731 x12
FAX: 925.681.2733
Contact: Bret Tresidder

Icon Fire Systems Design

92-324 Pueonani Pl.
Kapolei, Hawaii 96707
Phone: 808.672.7214
FAX: 808.672.7214
Thomas Burtness, Owner

IFSC

6820 Green Hollow Way
Highland, Maryland 20777
Phone: 301.490.7803
FAX: 301.490.5607
Contact: Jaime Moncada
Email: jam@ifsc.us

Interface Engineering

708 SW 3rd Ave.
Ste 400
Portland, Oregon 97204
Phone: 503.382.2266
FAX: 503.382.2262
Contact: Kathleen Roach, CFPS
Email: kathleenr@interfaceengineering.com

Jason M. Scates, PE

1805 N. 2nd St., Suite 5274
Rogers, AR 72756-2423
Phone: 479.631.5274
Contact: Jason Scates

Jensen Hughes

600 W. Fulton St.
Chicago, IL 60661-1242
Phone: 312.879.7200
website: www.jensenhughes.com
Contact: Craig Studer, V.P.

JS Consulting

Blanchard, OK 73010
Phone: 405.476.4737
Contact: Jairo Soto

JW Fire Sprinkler Design

5 Mezabish Pl. Unit 201
Monroe, New York 10950
Phone: 845.234.4599
Contact: Joel Werzberger

K & E Fire Protection

1605 Violet Ln.
Jackson, New Jersey 08527-4158
Phone: 732.644.6597
FAX: 732.780.6310
Contact: Douglas MacDonald
Email: d.macdonald@kelfire.com

Kerr-Greulich Engineers, Inc.

1534 Ormsby Station Ct.
Louisville, KY 40223
Phone: 502.426.9457
FAX: 502.426.2945
Contact: D. Scott Setliffe
Email: info@kerr-greulich.com

Keyes Life Safety Compliance

6725 Shirland Rd.
Rockton, IL 61072
Phone: 815.629.2240
Website: www.keyeslifesafety.com
Contact: Brad Keyes, Owner

King Sprinkler Design

95 Wilson Ln.
Tornado, WV 25202
Phone: 304.546.5443
Contact: Dwayne King, President

Kohler Ronan Engineers

93 Lake Ave.
Danbury, CT 06810
Phone: 203.778.1017
FAX: 203.778.1018
Contact: Kevin Czarnecki

L&M Fire Protection Systems, Inc.

9145 SW 40th St. Ste 18
Miami, FL 33165-5371
Phone: 305.970.5868
Website: www.lm-fire.com
Contact: Luis Bernal

LaBella Associates, DPC

Senior Mechanical Engineer
202 The Commons
Suite 304
Ithaca, New York 14850
Phone: 607.319.4136
Contact: John Hewitt

Lockheed Martin IS & GS

7829 Windover Way
Titusville, FL 32780-3706
Phone: 321.853.9561
Contact: Kerry Hammers

Lund Fire Protection, Inc.

PO Box 459
Norwalk, Iowa 50211
Phone: 515.981.0912
FAX: 515.981.0913
Contact: Jonathan Lund

M T & A Fire Protection Consulting

23235 Interstate 30 S
Bryant, AR 72022
Phone: 501.847.4500
FAX: 501.847.4501
Website: www.mtafire.com
Contact: Kent Stewart, Max Trummel

M/E Engineering, P.C.

433 State St. Ste 410
Schnectady, NY 12305
Phone: 518.533.2171
FAX: 518.533.2177
Website: www.meengineering.com
Contact: Beth Ann Bilger, Project Designer

Malek & Associates Consultants, Inc.

3560 S. Iowa Ave.
St. Francis, Wisconsin 53235
Phone: 414.483.0100
FAX: 414.483.1211
Contact: David Malek, President

MCE International, Inc.

1360 Beretania St. Ste 400
Honolulu, HI 96814-1520
Phone: 808.941.0955
Contact: Paul Choi

Mechanical Designs, Ltd.

67 Chouteau Ave.
Framingham, MA 01701
Phone: 508.653.5452
FAX: 508.655.1318
Contact: Maurice Pilette

MEP Associates, Inc.

2720 Arbor Court Ste A
Eau Claire, Wisconsin 54701
Phone: 715.832.5680
FAX: 715.832.5668
Contact: Timothy Coach

MEP Engineering, PC

65 Nassau Ave.
Islip, NY 11751
Phone: 631.587.1999
Contact: Julio Castro

Merck & Company, Inc.

PO Box 4
West Point, PA 19486
Phone: 215.652.6635
Contact: Dave Kerr

MFP Design, LLC

2508 E. Lodgepole Dr.
Gilbert, Arizona 85298
Phone: 480.505.9271
FAX: 866.430.6107
Contact: Travis Mack

MG Fire Design, Inc.

9847 Fair Rd.
Strongsville, Ohio 44149
Phone: 440.878.9621
FAX: 440.878.3939
Contact: Mark G. Karr, President
Services: We provide fire protection design for commercial, industrial, residential, retrofit and limited area systems. We proudly design with MEPCAD's AutoSPRINK software.

Michael Walters Fire Protection Design, LLC

8680 County Road 26
Jenera, Ohio 45841-8961
Phone: 419.722.2719
Contact: Michael Walters, Owner
Email: mwfpd7@yahoo.com
Services: Fire Protection-sprinkler system design, stock listing and consulting.

Midwest Sprinkler Design

2801 Lincoln Ave. Ste B6
Evansville, IN 47714
Phone: 812.453.8648
FAX: 812.477.3366

Mile High Design Group, LLC

5151 Bannock St.
Denver, Colorado 80216
Phone: 303.291.1012
FAX: 303.383.5023
Contact: Timothy N. Trostel, Jr., SET-President
Services: Fire Sprinkler layout, design and consulting, all CAD design-3D design, NAVIS coordination, Hazen-Williams, Darcy-Weisbach formula calcs, stock listing, plan reviews.

MJR/Senter P.C.

PO Box 10405
Birmingham, Alabama 35203
Phone: 205.214.3860
FAX: 205.214.3864
Website: www.mjr-senter.com
Contact: Mike Reddington, Principal
Services: Fire protection design and consulting firm. Staffed by registered engineers, we provide consultation, design and systems commissioning for fire protection projects.

National Fire Control

2427 W. Lake Hazel Rd.
Meridian, Idaho 83642
Phone: 208.284.5339
FAX: 866.807.5083
nationalfire@overarch.com
Contact: Nick Anderson
Services: Fire sprinkler design, NICET Level IV.

Neptune Fire Protection Engineering

60 Ocean Blvd. Ste 15
Atlantic Beach, Florida 32233
Phone: 904.652.4200
FAX: 904.212.0868
Contact: Stephen Kowkabany, Owner
Services: Design of fire sprinkler systems, fire alarm systems, site fire protection, smoke control systems, passive fire protection systems, life safety and special hazard systems.

NFPA

1 Batterymarch Pk.
Quincy, MA 02169
Phone: 617.984.7458
FAX: 617.984.7110
Contact: Christian Dubay, V.P. Codes & Standards

Northeast Fire Systems

140 Union St.
Vernon, Connecticut, 06066
Phone: 860.894.7447
FAX: 860.896.7448
Contact: William Cieslak

Northwest Sprinkler Designs

3950 Palisades Park
Billings, Montana
Phone: 406.534.6726
FAX: 406.534.6727
Contact: Bryan Kendrick

Northwest Sprinkler Designs, LLC

18207 E. 10th Ave.
Spokane Valley, WA 99016
Phone: 509.924.0520
FAX: 509.924.5348
Contact: Rene Gordon

NW Plumbing Concepts

5642 SW Idaho St.
Portland, OR 97221-1625
Phone: 503.293.5451
Contact: Bill LaFave, Owner

Paragon Fire Sprinkler Design

12403 SE 25th Pl.
Bellevue, WA 98005
Phone: 425.643.0833
FAX: 425.643.0160
Contact: David Farahani, Owner

Park Engineering LLC

10429 Dandridge Dr.
St. Louis, MO 63123
Phone: 314.330.4115
Contact: Robert Park

Peterson-Bernard

1550 Southern Blvd. #300
West Palm Beach, Florida 33046
Phone: 561.686.5005
FAX: 561.471.5603
Contact: Eric Peterson



PGA Experts, Inc

588 Route Begin Ste 200
Saint-Anselme (Bellechasse) Quebec,
Canada G0R2N0
Phone: 418.885.9671
FAX: 418.885.4514
Contact: Gilles Carrier
Email: g.carrier@videotron.ca
Products/Services: Fire Protection Consultant
(sprinkler system, fire pumps, standpipe, special hazard)

Philip R. Sherman, P.E.

PO Box 216
Elkins, New Hampshire 03233-0216
Phone: 603.526.6190
Contact: Philip R. Sherman P.E., Consulting
Engineer
Email: psherman@prsherman.com
Services: Building code consulting and fire
protection engineering.

Phiscon Enterprises, Inc.

213 S. Davis Ave.
Audubon, New Jersey 08106
Phone: 852.310.9088
FAX: 852.310.0487
Contact: Philip Sconyo, P.E., President

Poole Fire Protection, Inc.

19910 W. 161st St.
Olathe, KS 66062-2700
Phone: 913.747.2050
FAX: 913.829.8690
Contact: Jack Poole, PE, FSFPE

**Princeton University/Office of Design
& Construction**

MacMillan Bldg.
Princeton, New Jersey 08512
Phone: 609.258.6706
FAX: 609.258.2298
Contact: Robert Allen

Pro Fire Systems LLC

181 High Street
Nutley, New Jersey 07110
Phone: 973.338.3800
FAX: 973.338.6499
Website: www.profiresystems.com
Contact: Len Guancione, Owner
Email: lennyg@profiresystems.com
Services: All disciplines of fire protection
engineering, including fire alarm systems and
kitchen hood systems.

Professional Fire Protection Design

248 Wetherell St.
Manchester, CT 06040-6344
Phone: 860.617.1515
Contact: Ronald Roark

Pyralis Sprinkler Design

PO Box 3029
Bozeman, MT 59772-3029
Phone: 406.577.8156
Contact: Eric Thomas

Quality Fire Design

609 N Britain Rd
Irving, Texas 75061-7609
817-371-8962

Glenn Gillan, Owner
Email: wendyqfd@hotmail.com
661 E. Main St. #2c
Midlothian, TX 76065
Phone: 817.371.8962
Contact: Glen Gillian, Owner

R.A. Kenz Company

275 Calvary Ln.
Naples, ID 83847-5283
Phone: 208.267.9776
FAX: 208.267.6332
Contact: Robert Kenz, President

Ragoonan Fire Protection, Inc.

2231 NW 172 Terrace
Miami Gardens, FL 33056
Phone: 786.285.4152
Contact: Afton Ragoonan

Ralph Gerdes Consultants

5510 S. East St. Ste. E
Indianapolis, Indiana 46227
Phone: 317.787.3750
FAX: 317.787.3780
Contact: Ralph Gerdes, Owner

Reed Fire Protection, Inc.

1777 NE Loop 410 Ste 600
San Antonio, TX 78217-5218
Phone: 210.387.9510
Website: www.reedfire.com
Contact: Candace Chilton

Ring & DuChateau, Inc.

17400 W. Capitol Dr.
Brookfield, WI 43045-2001
Phone: 414.778.7440
Contact: Joseph LaMonte

RM Arsenault Engineering

3706 Murray Harbour Rd.
Grandview, PE COA 1A0, Canada
Phone: 902.892.5232
Contact: Rick Arsenault, P.E.

Robert Derector Associates

19 W. 44th St.
New York, NY 10036
Phone: 212.930.5134
Contact: Michael Lonigro

Robert W. Sullivan, Inc.

529 Main St. Ste. 203
Charlestown, Massachusetts 02129
Phone: 617.523.8227
FAX: 617.523.8016
Contact: Edwin Kotak, Jr., Sr. Fire Prot. Des.

Rochester Regional Health

1555 Long Pond Rd.
Rochester, NY 14626-4122
Phone: 585.723.7002
Contact: William Timmons

Rodkin Cardinale Consulting Engineers, PC

214 W. 29th St.
New York, NY 10001
Phone: 212.239.1892
FAX: 212.239.6412
Contact: Dominic Cardinale, PE

RSA Engineering, Inc.

670 W. Fireweed Ln. Ste 200
Anchorage, Alaska 99503
Phone: 907.276.0521
FAX: 907.276.1751
Contact: Mark Frischkorn

Rybak Engineering, Inc.

PO Box 709
Warren, MA 01083
Phone: 413.436.5000
FAX: 413.436.5563
website: www.rybak-fpc.com
Contact: Carl Koslowski, President

S.C. Johnson Wax

1525 Howe St. M/S337
Racine, Wisconsin 53403
Phone: 262.260.3802
FAX: 262.260.4554
Contact: Anthony Karwowski, Staff Mechanical Engineer

S.S. Dannaway Associates, Inc.

501 Summer St. Ste 421
Honolulu, Hawaii 96817
Phone: 808.526.9019
FAX: 808.537.5385
Website: www.ssdafire.com
Contact: Samuel Dannaway, PE-President
Services: Fire protection engineering services.

SA Comunale Co. Inc.

12749 Ireland Corners Rd.
Galena, MD 21635-1510
Phone: 856.816.5711
Contact: Barbara Baccile

Sevan Engineering

3903 Ocean View Blvd. Ste A
Montrose, CA 91020-1514
Phone: 818.248.3366
FAX: 818.248.3365
Contact: Edick Moradkhanian, P.E.

Shaner Life Safety

PO Box 1073
Frisco, CO 80443
Phone: 970.409.9082
FAX: 970.797.1898

Website: www.shanerlifesafety.com
Contact: Deborah Shaner

Slicer & Associates

PO Box 1647
West Chatham, Massachusetts 02669
Phone: 508.945.5074
FAX: 866.395.6172
Contact: J. Sargent Slicer

Sornsini Fire Protection

PO Box 9922
 Fargo, ND 58109-9922
Phone: 701.371.0643
Contact: David Sornsini

Sprinksys.com

38W672 Greenview Ct.
St Charles, IL 60175-6198
Phone: 773.370.5101
Website: www.sprinksys.com
Contact: Alex Andreescu

Staggs & Fisher Consulting Engineers, Inc.

3264 Loch Ness Dr.
Lexington, KY 40517-1239
Phone: 859.273.3246
FAX: 859.271.3613
Contact: Kevin Middleton

Stewart Fire Protection LLC

1419 S. Winter Rd.
Spokane, WA 99212-3025
Phone: 509.724.1914
Contact: Ronald Sawyer

Summit FP Tech Service

1168 W. Gannon Dr.
Festus, MO 63028-2601
Phone (314) 413-6790
Website: www.summitfpotech.com
Email: edl@summitfpotech.com

Contact: Ed Loeffelman , Owner
Email edl@summitfptech.com
Services: Fire Sprinkler System Layout Services

Sunrise Design & Engineering, LLC

5860 North Canton Center Road
Suite-325
Canton, MI 48187
Phone: 734.709.9657
FAX: 734.404.5139
Contact: Imroz Singh

Superiorland Electronics, Inc.

1585 Aspen Dr.
Ishpeming, Michigan 49849
Phone: 906.786.3533
FAX: 906.485.4798

Sylvester Design Consultants

2976 Palmarie Dr.
Poland, Ohio 44514
Phone: 330.757.9259
FAX: 330.757.9259
Website: www.sylvesterdesign.com
Contact: John Sylvester, V.P.
Email: john@sylvesterdesign.com
Services: Fire Protection Design Services

T. Mohr Designs LLC.

13300-56 S. Cleveland Ave, Ste 271
Fort Myers, Florida 33907
Phone: 239.313.0657
Website: www.tmohrdesigns.com
Contact: Carolyn Mohr, Sales/Marketing
Services: Design of fire sprinkler systems, survey, stock list sent to fabricators, coordination meetings, bid estimates, training, custom lasered calc-plates. We represent your company, not ours!

TC Engineering Ltd.

1465 Parkway Blvd. #112
Coquitlam, British Columbia V3E 3E
Phone: 604.475.7733
FAX: 604.475.7733
Contact: Tian Cai
Email: tcsprinkler@gmail.com

The Rock Brook Consulting Group

20 S. Middlesex Ave.
Monroe Township, NJ 08831-3724
Phone: 732.438.1600
FAX: 609.642.6947
Contact: Karen Papsin, P.E.
Website: www.therockbrook.com

Thomas Design Services

35 N. Franklin Ste 210
Valparaiso, IN 46383-4875
Phone: 219.307.3293
Contact: Thomas Gesse

Thomas Polise Consulting Engineer, P.C.

133 W. 19th St. Flr 8
New York, New York 10011
Phone: 212.645.1002
FAX: 212.645.3905
Contact: William Polise

Thunderbird Engineering, Inc.

6000 Gisholt Dr. Ste 201
Monroe, WI 53713
Phone: 608.223.9040
FAX: 608.223.9046
Website: www.thunderbirdengineering.com
Contact: James Mickowski, Principal

TK Engineering Company

PO Box 1731
White House, TN 37188
Phone: 615.566.3614
FAX: 615.672.1494
Contact: Steve Escue
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Hydraulic Analysis: Cut Ends of Pipe

The basic principle at the core of any automatic fire sprinkler system is to supply enough water to a fire incident in order to control or suppress that fire. With the arrival of the density/area design method to NFPA 13, the older method of pipe schedule systems has become obsolete and modern fire sprinkler systems have become reliant on accurate hydraulic calculations. Performing hydraulic calculations, either by hand or with a calculation program, allows a technician to layout a system to provide enough water for the appropriate classification of occupancy or commodity being protected, while also optimizing the pipe diameters and the cost of the system. Because it controls the material costs of the project, this is arguably one of the most important aspects of any automatic fire sprinkler system.

Hydraulic Calculations

Before delving into this article, which is a discussion on the cut ends of pipes and their effect on hydraulics, we should briefly summarize some aspects of the hydraulic calculation process. While this will be a brief conversation on hydraulic calculation, Robert Upson, NFSA Manager of Engineering Services, wrote an article exploring the background and mathematics behind hydraulic calculations for sprinkler systems in our 2014 March/April edition of *SQ* that can be found in the Members Only section of www.nfsa.org.

As many of us know, when laying out sprinkler systems being supplied by water (assuming no additives), we would use the Hazen-Williams formula as the basis for the friction loss in our hydraulic calculation. NFPA 13 provides this equation in section 23.4.2.1.1.

$$p = \frac{4.52 Q^{1.85}}{C^{1.85} d^{4.87}}$$

Where:

p= frictional resistance (psi/ft of pipe)

Q =flow (gpm)

C = friction loss coefficient (roughness coefficient)

This formula outputs a friction loss in psi per foot of pipe and it is dependent on three factors;

1. inside pipe diameter
2. the flow demand through a length of pipe
3. the C-factor (roughness factor of the pipe)

While this accounts for the friction loss through straight runs of pipe, we also encounter pressure changes through elevation and pressure loss from flow through fittings and devices. Elevation pressure is derived based on the water's own weight under gravity and is expressed as either +/- 0.433 psi/ft. depending on whether you are gaining or losing elevation. Pressure loss through fittings is due to water changing direction through either a turn in the piping (tee or elbow) or maneuvering through a valve and overcoming any physical characteristics of the valve.

NFPA 13 provides us Table 23.4.3.1.1

which gives various fittings of various sizes an equivalent length of Schedule 40 steel pipe length. This table can be directly applied when using fittings within sections of the sprinkler piping utilizing Schedule 40 steel pipe. However, it needs to be modified to account for differing actual inside pipe diameter and C-factors if utilizing any pipe or tube other than Schedule 40 steel pipe. The modifier for differences in actual inside pipe diameter in respect to Schedule 40 steel pipe inside pipe diameter can be found under section 23.4.3.1.3 of NFPA 13. A table is provided with multipliers for pipe or tube with a different C-Factor than steel pipe under Table 23.4.3.2.1.

So why do we bring this up in a discussion on cut ends of pipe?

Table 1 provides equivalent lengths of pipe of selected fittings and diameters. The general trend of the table is that larger pipe diameters equate to longer length of equivalent pipe, and the more physical the characteristic of the bend/valve the larger the length of pipe. This is also true for Table 23.4.3.1.1 in NFPA

>> CONTINUED ON PAGE 72



NFSA Product
Standards Manager

Louis Guerrazzi

13 that contains even more sizes and devices. For example, a 2-inch 45-degree turn equates to 2 feet of Schedule 40 steel pipe, while a standard 90 degree turn equates to more than twice that at 5 feet of equivalent Schedule 40 steel pipe. This means that when the Hazen-Williams formula is used for calculating friction loss, more pressure will be lost from the 90-degree turn than would be with the 45-degree turn.

(see Table 1)
(see Figures 1 & 2)

Here we have pictures of two different valves. Figure 1 shows a butterfly valve while figure 2 shows an Outside Screw and Yolk (OS&Y) gate valve in both the open and closed position. If, for example, we assume these were both 3-inch valves, we can see from Table 23.4.3.1 that the butterfly valve produces an equivalent 10 feet of Schedule 40 steel pipe and the OS&Y valve and, even though there are no visual obstructions when open, will create an equivalent friction loss of 1-foot of Schedule 40 steel pipe. While the hydraulic demand of an additional foot of Schedule 40 black steel pipe is

not a significant numerical value, this expresses the idea that even small physical inconsistencies in the waterway can create friction and consequently a loss of pressure. Here is where we now start our discussion on cut end pipes and any effect it may have on hydraulic calculations.

Factory Machined Pipe vs. Cut End Pipes/Reamed Pipe

When pipes are cut to appropriate lengths for installations, burrs (raised edges or small piece of materials) can be created along that edge. Section 6.5.6. of NFPA 13 deals with End Treatment of pipes and fittings and requires that, "After cutting, pipe ends shall have burrs and fins removed". A common practice is then to ream these ends of pipe to shave off these burrs and fins. While slightly altering the edge of a single pipe end would not create a significant effect to the overall pressure loss through friction throughout a sprinkler system, the question arose if the altering of each and every cut end of pipe in a system would have a hydraulic effect on water delivery.

Factory Mutual Research Corporation

conducted research on this exact concept in 1996 for Allied Tube and Conduit where they evaluated the flow characteristics of their "XL" threadable thinwall sprinkler pipe with and without machining burrs on the lip of the inside diameter at the first thread. The test compared pipe "as-machined", with slight burring, versus fully reamed pipe which displayed little or no internal burring. Three tests were conducted; the first examining 1 inch NPS diameter pipe at 21 foot samples, the second 2 inch NPS diameter pipe at 21 foot samples and the third 1 inch NPS diameter pipe at 10 foot samples. Each of these tests provided 3 samples of "as-machined" and 3 samples of fully reamed pipe which were then tested together such the total test would flow through 63 feet of pipe or 30 feet of pipe for both 21 foot sample testing and 10 foot sample testing, respectively. Each test arrangement was also tested a 20 different flows which ranged from 5 gpm up to 435 gpm.

Test Results

For this discussion we have selected data from the first series. Table 2 provides the physical dimensions of the pipe used,

Table 1 - Fittings and Valves Expressed in Equivalent Feet of Schedule 40 Steel Pipe

Fittings and Valves	1 in.	1 ¼ in.	1 ½ in.	2 in.	2 ½ in.	3 in.
45 elbow	1	1	2	2	3	3
90 elbow	2	3	4	5	6	7
Butterfly Valve	--	--	--	6	7	10
Gate Valve	--	--	--	1	1	1

Table 2 - Physical Dimensions of Test Pipe from First Test Series

Size and length	Inlet condition	Average Measured Inside Diameter	Average Lip Height
1 inch x 21 feet	Reamed	1.093	0.007
1 inch x 21 feet	As-Machined	1.006	0.049



Figure 1 - Butterfly Valve

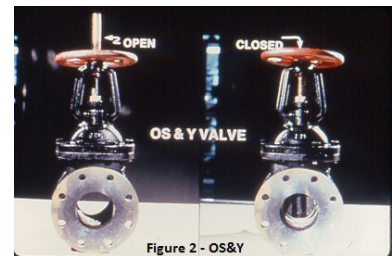


Figure 2 - OS&Y

while table 3 provides the tested flow and pressures recorded. This test used pressure sensors at the beginning of the 63 foot length of test pipe and a pressure sensor at the end to measure pressure loss through the pipe arrangements.

(see Table 2 & 3)

Using this data, Factory Mutual Research compared the results against what a system was calculated too based off of the Hazen-Williams formula (using a C-factor of 120). Plugging in our values from the reamed test arrangements where Q=30 gpm, C=120 and d=1.094, the Hazen-Williams formula gives us a theoretical friction loss of 14.14 psi through 63 feet of pipe. Factory Mutual Research observed that the friction loss through 63 feet of pipe to be 8.34 psi. When we calculate a theoretical friction loss through the "as-machined" test arrangement, changing our inside pipe diameter to be d=1.006, we would expect to have a 21.28 psi loss over this 63 feet of pipe. Again, Factory Mutual observed through testing that this friction loss is 8.98 psi. This trend remained the same for all 20 test flows for each of the three testing


arrangements; the calculated theoretical friction loss through pipe was lower than the test results, which is to be expected as Hazen-Williams uses a conservative C-Factor intended for 20 year old pipe.

More importantly though, when we examine the difference in these values we find that there is a smaller percentage difference between reamed and as-machined values when we compare the test data to the theoretical calculated value. Table 4 compares the percentage difference between these values for 30 gpm flow. This shows that the difference between reamed and As-machined pipe is smaller than what we would calculate to when using the actual inside pipe diameter. Again, this held true for all tests.

(see Table 4)

Factory Mutual concluded then that, "In summary, the differences observed between "As-machined" and "Reamed" pipe were negligible and entirely within [what] one would consider normal pipe-to-pipe variation".

In addition to their findings, Chapter 23 of NFPA 13, Section 23.4.2.4 states that "Hydraulic Junction points shall balance within 0.5 psi (0.03 bar). Looking back

at the data in Table 3 we can see that for both the 30 gpm flow test and the 56 gpm flow test that the difference in psi loss was a 0.64 psi and a -0.50 psi, respectively. The maximum difference in pressure of all 60 test flows was a difference of 1.60 psi, with the average of all test being a difference 0.39. When we look at that, in conjunction with the tolerance of balancing within 0.5 psi per hydraulic junction point on a system, we can conclude that these small difference between the as-machined and reamed pipes are well within the tolerances allowed by NFPA 13. 

REFERENCES:

NFPA Codes and Standards, National Fire Protection Association, Quincy, MA.

S. Ziobro, Contract Report " 'XL' Sprinkler Pipe Friction Loss Examination Sizes 1 and 2 Inch NPS" FMRC S, Factory Mutual Research Corp, Norwood, MA (1996)

R. Upton, "Demystifying Hydraulic Calculations", March/April 2014 SQ, Patterson, NY (2014)

Table 3 – 1 inch Allied "XL" Sprinkler Pipe Friction Loss Average

Flow GPM	Nominal Velocity (ft/sec)	Measured Friction Loss (psi)		Δ Friction Loss (Machined-Reamed) (psi)	Percentage Difference <u>As Machined</u> x 100 Reamed
		Reamed	As- Machined		
30.0	10	8.34	8.98	0.64	108
56.0	19	29.13	28.59	-0.50	96

Table 4 – Comparison of Observed Friction Loss vs. Theoretical Calculations

	1 inch Reamed – 30 gpm test	1 inch As Machined – 30 gpm test	Δ Friction Loss (Machined-Reamed) (psi)	Percentage Difference <u>As Machined</u> x 100 Reamed
Observed Test Results	8.34 psi loss	8.98 psi loss	0.64	108%
Theoretical – Calculation	14.14 psi loss	21.28 psi loss	7.14	150%

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Code Development 101: Using ICC's cdpACCESS

You've got the one idea that will make the building code easier to understand, the fire code simpler to interpret, and the project owner's bottom line to stay in the black. How do you get it into the code?

With cdpACCESS, the International Code Council's® online tool for code development, submitting code change proposals is only a few computer clicks away. Anyone with an interest in improving the model codes is welcome to send their suggestions to this robust cloud-based tracking, collaboration and voting system found at www.cdpACCESS.com.

cdpACCESS saves time and money while providing a single portal for code officials and other interested persons to stay on top of proposed code changes, offer their commentary and - for code officials - determine the outcome by their votes. The concept of online participation in ICC's Code Development Process dates back to 2001 when off-site voting on code changes was used by the three model code organizations that later consolidated to become ICC.

The development of codes and standards in the United States affects all Americans, as they live, work and go to school in buildings designed to comply with building codes, and use thousands of products, from Apple I-phones to ZipLock bags that meet consensus standards, and in most cases meet many different standards, largely developed by a few hundred private sector, non-profit organizations. Americans sometimes focus on government requirements, but are

not often aware of the many private sector standards that are either voluntarily adopted by architects, designers and manufacturers, or adopted as regulations by Federal, state and local governments.

The Codes

Most of the jurisdictions in the United States that adopt and enforce building codes and standards use one or more of the International Codes. Other jurisdictions include Guam, Northern Marianas Islands, the U.S. Virgin Islands and Puerto Rico. The ICC is a U.S.-based, not for profit, 58,000-member association of professionals and volunteers who are responsible for the development, publication and enforcement of model consensus codes for building and fire safety, including the International Building Code® (IBC) and International Fire Code® (IFC). The IBC is in use or adopted in all 50 states, the IFC is in use or adopted in 42 states, while the International Residential Code (IRC) is in use or adopted in 49 states, the District of Columbia, Guam, Puerto Rico and the U.S. Virgin Islands. ICC offers free, read-only access to all its current codes at <http://codes.iccsafe.org/I-Codes.html>.

In addition to publishing these codes, ICC offers its members a variety of important services: code training and education, plan review and code interpretations, technical opinions, inspector certification and agency accreditation, product evaluation, and a range of other products. As code enforcement professionals, ICC Members are encouraged to

suggest code changes and vote on them for adoption as model legislation. (See sidebar "Step-by-Step for cdpACCESS" for instructions.)

ICC Members and others with an interest in public safety in the built environment have begun to use the first version of cdpACCESS—the new, cloud-based tool built exclusively for ICC's code development process (cdp). Once referred to as remote voting, cdpACCESS is much more than that. With cdpACCESS, you can create code change proposals and submit them online.

Robust and Modern Features

cdpACCESS is intended to make the entire code development process open and transparent to all participants as well as any person or entity that may be affected by the codes. The portal includes features that allow users to share information and opinions, as well as watch videos of comments made at the various the code development hearings. cdpACCESS allows anyone to participate in code development from a computer or tablet, when you cannot attend in person. This capability alone will save thousands

>> CONTINUED ON PAGE 76

Rob Neale is Vice-President,
National Fire Service Activities
International Code Council
and
David Karmol, Consultant,
International Code Council

of dollars in travel and lodging expense for those who want to be active in the code hearings. Most important, it makes the entire code process more democratic.

Among the features offered on the cdpACCESS portal are:

- The ability for online collaboration with one or many colleagues;
- The capacity to view, download and print the Code Change Agenda;
- The opportunity for online users to submit floor modifications at the Committee Action Hearings*;
- The capability to vote online for assembly floor motions following the Committee Action Hearing. All ICC Members are eligible to vote online on assembly floor motions;
- The capacity to view, download and print the Report of the Committee Action Hearing;
- The ability to create and submit online public comments to the Committee Action Hearing results;
- The capability to view, download and print the Public Comment Agenda; and
- The ability for ICC Governmental Member Voting Representatives and Honorary Members to vote online on proposed code changes/ public comments following the Public Comment Hearing.

Prepping and Testing cdpACCESS

Since not everyone is an expert in a digital world, cdpACCESS developers have made the tool “user-friendly.” With a few simple steps, anyone with access to the World Wide Web can submit code development proposals for consideration. ICC has tested cdpACCESS extensively on a wide variety of Windows and Apple computers and the iPad. cdpACCESS is designed for use on Internet Explorer, Firefox, Safari and Chrome. Internet Explorer version 7 and earlier versions are not supported. Analysis of ICC website traffic has shown this will affect a very small percentage of users.

Support for cdpACCESS includes help by phone and email to answer questions, receive comments and suggestions, and

report any system errors. The toll-free cdpACCESS hotline is 855-ICC-CDP-1 (422-2371); email can be sent to cdpACCESS@iccsafe.org. Detailed cdpACCESS instructions and a schedule of upcoming webinars can be viewed at www.iccsafe.org/cdpaccess/.

Summary

The International Code Council (ICC) has long been a leader in developing its codes and standards in a transparent and open process, exceeding even the strict “openness” criteria required by the American National Standards Institute. Going be-

yond the requirement to not impose “undue financial barriers” to participation, ICC has long allowed any individual with an interest to participate in public hearings on code change proposals, and even to vote on issues submitted to the assembly, without payment of any registration fee or participation charge. Providing this access, which is subsidized by the membership and the product sales of the Code Council, has long been a hallmark of the ICC process, and has been a factor in the wide acceptance and adoption of its codes and standards by government entities at every level, and around the world.🌐

STEP-BY-STEP TO cdpACCESS

Using cdpACCESS is easy, even for the first timer. Here are the steps to get you started in writing code change proposals:

1. In your web browser, select www.iccsafe.org.
2. Once the ICC home page loads, click on “cdpACCESS” in the black banner at the upper right hand side of the screen.
3. You will be directed to the “Welcome to cdpACCESS” portal where – if you are not already registered – you will need to register a username and password at the hyperlink at the bottom of the page. It’s free.
4. Once you are registered, select the green Log In button on the “Welcome to cdpACCESS” portal.
5. That’s all there is to it... you’re now in and able to participate in the ICC code development process. **Welcome.**



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Harrington Group, Inc., a loyal NFSA Member for ten years, is an engineering design and consulting firm with offices in metro-Atlanta, Georgia and Charlotte, North Carolina. Our firm specializes in Fire Protection Engineering, Forensic Engineering, and Property Loss Control Consulting. Established in 1986, the firm has grown to become one of the largest and most experienced practices headquartered in the southeast region dedicated to these fire protection engineering specialties.

Harrington Group is proud to offer the following services to our fellow NFSA members: Fire protection engineering and combustible dust consulting services in the area of design, loss investigation, and property loss control.

We find a tremendous value in our NFSA membership. The various publications help to keep us up-to-date with the latest in changes (and proposed changes) to sprinkler codes and standards. The training opportunities, taught by industry experts, are an excellent continuing education resources for our engineers and consultants. Continuing education is important in most any field and the fire protection industry is no exception. With rapidly changing technology and code updates, upgrading skills and the ability to adapt to new situations is essential for fire protection professionals. Our NFSA membership is a great way for our engineers and consultants to keep up-to-date with current technology and code changes, as well as to earn professional

development hours.

Our firm has been specializing in fire protection engineering since 1986 and we are excited to celebrate our 30th anniversary this year! We have been a proud sponsor of many of the international and national fire protection associations and have several employees that serve on technical committees for NFPA, as well as many employees that have helped to organize the SFPE-Greater Atlanta Fire Safety Conference year after year, and whom have served on the executive board of the Chapter, as well. We started a blog on our website five years ago to share the latest in fire protection engineering information and fire safety tips to our website visitors. We have made it our mission to use the blog to provide an educational resource in regards to fire protection engineering to our clients and website visitors and are proud of the success it has become.

Our employees enjoy a wide variety of interests! As a firm, each year, we hold a chili cook-off between employees to compete for the best recipe. Individually, we have one engineer that competes in water-skiing. Two employees (one consultant, one support staff) that are doing/have done triathlons. One employee (support staff) that will complete her



first full marathon in April. One employee (consultant) that is a Boy Scout leader. One employee (support staff) that loves photography. We have several college football fans – mostly of UGA, Tennessee and OSU. We have an employee (support staff) that has helped build houses with Habitat for Humanity, a consultant that plays recreational rugby, an engineer that likes to brew his own beer and an engineer that has volunteered several times to be a judge at our county science fair. 🏆

The Meet the PROs feature is available to any NFSA Professional member in good standing. If you are interested in having your company featured here, please contact Joanne Genadio at genadio@nfsa.org or 845.878.4200 x118. Features will be published on a first come, first serve basis.

Meet The PROs Harrington Group, Inc.

Metro Atlanta, GA / Charlotte, NC
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(standing left to right) Jim Tuten, Rob McFeaters, Pat Pickwick, and Jeff Harrington. (seated left to right) Matt Connolly, Nolan McCarthy, Patsy Sweeney, Diane Stone, and Susan Kneeland. HGI exploring some of the local breweries.



(left to right) Dale Hansen, Rob McFeaters, and Jim Tuten take time out from our putt-putt event to smile for the camera.



(back row, standing left to right): Nolan McCarthy, Cameron LeBlanc, Tom Dannaker, Jeff Harrington, Pat Pickwick, Jim Tuten, Dale Hanse, and Rob McFeaters. (front row "sitting", left to right) Matt Connolly, Patsy Sweeney, and Diane Stone. HGI employees wishing Tom Dannaker well, as he retires from HGI and the fire protection industry

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A Close-Up Look at the FEMA/HUD Temporary Modular Home with Sprinklers

A different kind of story than most topics in the Social Scene column, but one that should be of great interest to all.

You may have heard that The Federal Emergency Management Agency (FEMA) has decided to include fire sprinklers in its new manufactured housing units. Following a major disaster, these units serve as a temporary home for displaced victims until they are able to return home or find new permanent housing. The concealed sprinklers accompany smoke alarms throughout the unit.


One of these FEMA/HUD temporary modular homes equipped with fire sprinklers was on exhibit at FEMA Headquarters in Washington, D.C. NFSA Regional Manager **Ray Lonabaugh** attended the exhibition and was able to get some great shots of the home, which will be the first of many.

The modular home is 8'x48'. It has one bedroom. This size allows the home to be moved into location any time during the

day without permitting. The home can go up to 14 feet wide and 60 feet long with two and three bedrooms. However, to move a home that large it would require a permit for over the road. Transport time would only be allowed during certain times of the day.

The pump and tank are a separate module that connects to the home with a heat-traced hose. In the pictures accompanying this article, you will see there are trouble alarms (i.e. temperature) and also a fire alarm.

For this exhibit, the pump and tank module was mounted on a trailer for transport. The tank contained 300 gallons of water and the design is for a seven minute application. The tank has to contain greater than 250 gallons of water, so a safety factor is included. Individual sprinklers have a maximum discharge of 15 GPM. FEMA requirement is for the home to be available from design to delivery in 5 months.

This project took 5-1/2 years to complete. 



Exterior of Manufactured Home



*Sprinkler Manufactured Home
with Pump & Tank Module*



Closeup of P&T controls



Closeup of Water Hose



Fire and trouble alarms on Pump Tank Module



FEMA



Interior views of manufactured home



NFSA Welcomes New Team Members

Alexander (Alex) Siu CPA

Finance & Administration Department

Alex has risen through the ranks from Assistant Controller to Vice President of Finance in small to multi-million dollar companies. Alex is not only a Certified Public Accountant, but also holds dual Master Degrees in Business Administration, one with concentration in finance and the other in entrepreneurship and technology transfer. In addition to being committed to his profession, Alex is a volunteer Board Member at the Fells Point Corner Theatre in Baltimore, MD.



Ron Ritchey

Public Fire Protection Department

Ron comes to NFSA after a 23 year fire service career. He served in several roles including Assistant Fire Chief with a focus on fire prevention since 1999. He has a strong background in developing and implementing unique programs and proven experience in making them successful. He is as comfortable in a legislative hearing as he is presenting technical training in the classroom. Ron's experience, skills and abilities are tailor-made to help NFSA in its mission.

We have also added 2 contractors to assist with specific needs. **Rick Dunn** will be working to assist with the development of our online training and LMS system. **Chief Dan Jones** will be assisting us with Fire Team USA events, side by sides, and the re-write of the Step-by-Step Guide and the Retrofit Guide.

Please join us in welcoming these new team members. 🙌

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NEW ENGLAND REGION



DAVE LAFOND
Regional Manager

CONNECTICUT, MAINE, MASSACHUSETTS,
NEW HAMPSHIRE, RHODE ISLAND, VERMONT

Fire Sprinkler Legislation

MASSACHUSETTS

2016 has been very active with fire sprinkler legislation activities. Massachusetts has two residential sprinkler bills; HB 2089 and HB 2095. HB 2089 is a local option adoption bill, which if enacted by a local community will require newly constructed one- and two-family homes to have a home fire sprinkler system installed. HB 2095 requires the same, but not as local option and specifically states that the sprinkler system is a stand-alone system. It appears that HB 2089 has the best chance of making it out of the Public Safety Committee. There is no cost to the Commonwealth associated with this bill. It simply allows the democratic process to take place in each community.

CONNECTICUT

The State of Connecticut recently raised two residential sprinkler bills. HB 5278 requires all newly constructed two-family homes to have a fire sprinkler system installed. On the Senate side, SB 238 will require all newly constructed one- and two-family homes to have a fire sprinkler system installed.

Efforts are being made to have the CT Codes and Standards Committee (CAS) adopt the provisions on the IRC. There have been two obstacles facing the CAS, one being licensing and the other relates to water purveyors.

We feel that there is an established license in Connecticut for sprinkler fitters. Plumbers have been knocking on the door of recent, attempting to get into fire sprinkler installations without the pre-requisite training that a sprinkler apprentice has to go through. The other issue (water) is the same that we see all over the U.S. Stand by fees, separate water lines into the home, backflow prevention, shut off liability issues, etc.

However, a recent educational summit that was provided by NFSA and NFPA experts has broken down some of these well-established requirements. And, planning is in process to bring Massachusetts water professionals into the home fire sprinkler conversation. ☎

Dave LaFond

*NFSA's Regional Manager / New England
email: lafond@nfsa.org
2 Burns Way, Holyoke, MA 01040
phone: 413.244.7653*

NEW YORK REGION



DOMINICK KASMAUSKAS
Regional Manager

NEW YORK

Has the New York State Codes Council Reduced Fire Safety Throughout the State?

The New York code set of 2010 was based upon the 2006 I-codes with many New York specific amendments. Many amendments are driven by New York State statute or other rules created by other New York State agencies. The code officials, fire officials, and many contractors of all trades of New York, started pressing the state to maintain the three-year cycle as needed since 2011 to start revisions. The "technical committees" of New York State were brought back to discuss the 2012 I-codes. After the committees finished their duties, no movement was made on their recommendations. As time went on it was apparent that there was not going to be any code updates outside of the federally required Energy Code any time soon.

In 2014, the push came again and discussion ensued with the upcoming 2015 edition of the I-Codes due to be published. The council discussed and motioned to pursue the 2015 I-Codes with as few amendments as possible. This meant that we will lose A-1, A-3, A-4 Occupancies from the New York 100 threshold to the 2015 IBC threshold of 300. A-2 remain

at 100 which was reduced from 300 in the model codes after the Rhode Island tragedy (which was?).

Later, the New York council decided to remove the fire sprinkler sections of the 2015 IRC. There was much discussion, much testimony and much disregard of the facts. Many New York based emergency services and code associations could hardly believe the code council not only voted to delete the one- & two-family home section, but also the townhouse section!

As of March 9th, the final votes by the council were made and the recommendations are going forward. 180 days from the publishing in the New York Register (around April 1st) the new code set comes into effect approximately October 1st. This cycle for New York State (minus New York City) is the 2015 I-Code set with the New York Supplement book being published.

Many associations, including NFSA, spent many hours in meetings and working the phones to adopt the IRC intact. We at NFSA commend the dozens of people in the limelight and those behind the scenes for the excellent work and the dedication to get the truth out about residential fire sprinklers in one- & two-family residences. Thank you all. ☎

Dominick Kasmauskas

*NFSA's Regional Manager / New York
email: kasmauskas@nfsa.org
1436 Altamont Avenue
Suite 147 Rotterdam, NY 12303,
Phone: 518.937.6589, Fax 518.836.0210*

MID-ATLANTIC REGION



RAYMOND W. LONABAUGH
Regional Manager

DELAWARE, MARYLAND, NEW JERSEY,
PENNSYLVANIA, VIRGINIA, WASHINGTON D.C.

February NFSA NJ Chapter Meeting - Raises Money for the Lodi American Legion Post

As you may recall from past editions of the NFSA Mid-Atlantic Report, the

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Lodi American Legion Post in Lodi, New Jersey, experienced a run of bad luck trying to rebuild after a devastating fire destroyed their building (see *jul/aug 2014 issue of SQ*). Two requirements were holding up the issuance of a certificate of occupancy for their new building. One was the incomplete installation of a fire sprinkler system with several deficiencies. The other requirement was the paving of their parking lot. NFSA Member Charlie Hamilton of Northeast Fire Protection brought the issue to the attention of the NFSA New Jersey Chapter. Charlie together with Sprinkler Fitters Union 696 and NFSA SAM Members, as well other Chapter members, stepped in and replaced the automatic fire sprinkler system. This left the parking lot paving as the final open item. The Lodi American Legion Post had to procure a loan to pave the parking lot.



Kevin P. Bellew, Business Manager of Sprinkler Fitters Local 696; Charles Hamilton, President of Northeast Fire Protection, Inc.; Fred Hesse, Commander of Lodi American Legion Post 22, Lodi, New Jersey

The NFSA NJ Chapter decided to lend support to help the Lodi American Legion Post with their debt by holding a monthly NFSA New Jersey Chapter Meeting and Training Session on February 8th at the American Legion Post. The usual business of NFSA New Jersey Chapter was conducted along with an NFPA 13 Update by Victoria Valentine, NFSA Director of Engineering. In addition, the New Jersey Chapter added a fundraising event. The usual 50/50 chances were sold and a silent auction was conducted. Members donated their time and gifts for the auction. The attendance was overwhelming

with over \$5,600, including the 50/50 winnings, being raised and turned over to the Lodi American Legion Post to help pull them out of debt. Charlie Hamilton and Kevin Bellew, Business Manager for Local 696 accepted a plaque of appreciation from the Lodi American Legion Post.

The officers of the NFSA New Jersey Chapter expressed their sincere gratitude for everyone's generosity at the special Chapter Meeting. ①

Raymond W. Lonabaugh

NFSA's Regional Manager / Mid-Atlantic
email: lonabaugh@nfsa.org
P.O. Box 126, Ridley Park, PA, 19078
Phone: 610.521.4768

SOUTHEAST REGION



WAYNE WAGGONER

Associate Director of Regional Operations - East

ALABAMA, GEORGIA, MISSISSIPPI,
NORTH CAROLINA, SOUTH CAROLINA,
TENNESSEE

Tennessee Fire Death Rate Hit New Low In 2015

For the second consecutive year, Tennessee fire deaths decreased to a new state-record low while the number of lives saved by smoke alarms installed by the state's fire departments continues to climb.

The Tennessee State Fire Marshal's Office (SFMO) announces today that fewer unintentional structure fire fatalities occurred in 2015 than in any year in recorded Tennessee history, including a milestone year achieved last year.

72 people died in accidental home fires across the state in 2015, down from 76 fatalities in 2014. Both years were record-breaking improvements compared to 2013's fire fatality total of 100.

The three leading causes of 2015's fire fatalities were smoking, electrical distribution (wiring, outlets) and heating, according to the Tennessee Fire Incident Reporting System (TFIRS). TFIRS indicates that nearly 80% of last year's state fire deaths took place in homes where no smoke alarm was known to have been

present.

"The loss of life in a fire is a tragic event that we are committed to stopping," Tennessee Commerce & Insurance Commissioner and State Fire Marshal Julie Mix McPeak said. "Our partners in the Tennessee fire service community have worked diligently to prevent loss of life, and our teamwork is paying off. Going forward, we will not be complacent, and we will continue to make risk-reduction initiatives our top priority."

Tennessee has seen a 28% reduction in fire fatalities over the last five years (2011-2015) from the previous five-year average (2006-2010) when the National Fire Protection Association (NFPA) ranked Tennessee as number six in the nation for fire deaths.

"The continued reduction of fire fatalities in our state is a result of the dedication and commitment of the entire Tennessee fire service," said Gary West, TDCI Deputy Commissioner for Fire Prevention. "A key part of the SFMO's lifesaving mission is promoting the importance of smoke alarms. Our 'Get Alarmed' program continues to see great success due to partnerships with local fire departments and agencies like the Red Cross."

State Fire Marshal Gary West is a huge advocate of residential fire sprinklers and commercial fire sprinklers and he hopes that in the future they will be a part of the life-saving report. ①

Wayne Waggoner

NFSA's Associate Director of Regional Operations - East
email: wwaggoner@comcast.net
PO Box 9, Andersonville, TN 37705
Phone: 865.755.2956, Fax: 865.381.0597

FLORIDA & PUERTO RICO



LORRELL BUSH

Regional Manager

FLORIDA, PUERTO RICO

FFSA Recognizes 2016 Champion of the Industry Chief Phillip Green

During his time at Estero Fire Rescue,

>> CONTINUED FROM PAGE 86

Phillip Green has concentrated on educating and implementing the installation of fire sprinklers in one- and two-family dwellings. Thanks to all of Phillip's efforts, he was successful on October, 2015 in passing a residential ordinance in Estero. This was a huge accomplishment, making Estero the first community in Florida to pass such an ordinance. In addition, Phillip worked with the State Fire Marshal's

office on a Declaratory Statement which added clarity to the law, paving the way for other jurisdictions to be successful with the installation of residential fire sprinklers. Chief Green was recently announced as Fire Marshal of the Year by the Florida Fire Chiefs Association.

Chief Green has been employed by Estero Fire Rescue for over eleven years and he has served as Fire Marshal for the last six years. He previously served as

both Fire Marshal and Fire Chief for the City of Fort Walton Beach. He has a Bachelor of Applied Science degree in Fire Science Management as well as numerous certifications from the Florida State Fire Marshal's Office. Phillip has been married to his wife Paula for 30 years. They reside in Cape Coral, Florida with their three dogs Simone, Lily, and Simon. 🐾

Lorrell Bush

NFSA's Regional Manager / Florida & Puerto Rico
 email: bush@nfsa.org
 2025 Droylsden Lane, Eustis, FL 32726
 Phone: 352.589.8402
 Cell: 954.275.8487 Fax: 561.327.6366



GREAT LAKES REGION

TBA

Regional Manager

INDIANA, MICHIGAN, OHIO,
 WEST VIRGINIA, KENTUCKY

Lack of Fire Sprinklers Cited in Fatal Fire

A 4-year-old girl died and six others were hospitalized due to an overnight fire at an apartment building in Brunswick, Ohio.

The fire displaced the residents of all 24 units of the building.

According to Assistant Fire Chief Rick Barber, the fire started with a spark outside the apartment where the 4-year-old girl lived. Barber said the building's vinyl siding acted as an accelerant for the fire and that there was no sprinkler system in place. The building had working smoke detectors and passed an annual fire inspection in June of 2015.

Responders from 10 area fire and EMS departments succeeded in bringing the fire under control by midnight, but remained on the scene until the following day. One firefighter was treated for minor injuries and released. 🐾

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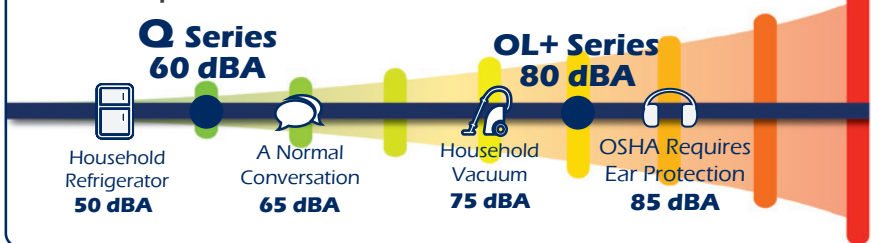
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ILLINOIS REGION



BOB TINUCCI
State Coordinator

ILLINOIS

Northwest Illinois Regional Building Code / BIG WIN FOR SPRINKLERS!

The City of Rockford, Illinois has partnered with over 30 communities, spanning a nine county area in Northwest Illinois to develop a "Regional Building Code"

The City of Rockford was the lead agency to propose the building code updates adopting the 2015 IBC Codes; 2015 International Building Code (commercial structures), 2015 International Residential Code (1 and 2 family dwellings). They held regional meetings over a period of

several months and the updated codes were approved by Rockford City Council on November 2, 2015. This was the first step to adopt this new Regional Code, as it is intended that all other regional partners will subsequently adopt the identical code.

There was considerable opposition to residential fire sprinklers for one- and two-family structures due to limitations in the various rural water supplies. This requirement was amended out of the regional code. The partnership led an aggressive proposal to maintain fire sprinklers in all townhome construction and prevailed! This is due to significant efforts by the City of Rockford's Andrew Pieri CBO, CFM, Planner/Building Plans Examiner-Construction & Development Services and Fire Chief Derek Bergsten.

Overview of their Regional Code Approach...

State law allows local units of government the ability adopt and amend building and

life safety codes in order to insure the safe construction, addition and alteration of residential and commercial occupancies. These codes and ordinances which vary from jurisdiction to jurisdiction have long been a source of confusion for local designers, contractors and trades people due to differing code requirements and ordinances. It is for this the reason that the City of Rockford has asked all communities in a nine county area to participate in the development and implementation of a region-wide building code. This Code will eliminate confusion by insuring that contractors and designers know exact code requirements and code amendments no matter where in the County one chooses to work. A region wide code will also benefit local government by reducing the amount of code violations found on the job site due to codes not being followed properly and also reduce the need to educate a contractor on the specific requirements of a particular community.

NORTHWEST ILLINOIS

REGIONAL CODE PARTNERS:

- Winnebago County
- City of Rockford
- City of Loves Park
- Winnebago County
(Includes - Unincorporated Winnebago County, Cherry Valley - Harrison - Machesney Park - New Milford - Rockton - Roscoe - Seward - Shirland - South Beloit)
- Village of Durand
- Village of Pecatonica
- Village of Winnebago
- DeKalb County
- City of DeKalb
- DeKalb County / City of Sycamore
- City of Ogle County
- City of Oregon
- City of Byron
- Stillman Valley
- Davis Junction
- City of Polo
- City of Rochelle
(Includes - Creston - Steward)
- Lee County
- City of Dixon
- Village of Ashton
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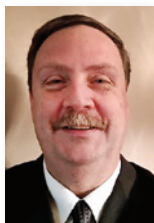
City of Galena
Whiteside County
Rock Falls
Village of Sterling

Bob Tinucci

NFSA's Regional Manager / Illinois
email: tinucci@nfsa.org

6401 Richmond Avenue, Willowbrook, IL 60527
phone/fax: 630.655.1875
cell: 630.514.1601

WISCONSIN REGION



MARTY KING
State Coordinator

WISCONSIN

On Monday, January 18, 2016 the Wauwatosa Fire Department responded to a reported structure fire at Jersey Mike's Subs located at 2751 N Mayfair Rd at 8:50 A.M. A store worker was in the business preparing food when she noticed a burning smell. She went to the kitchen area and saw visible fire coming from a gas fed water heater located near the ceiling. She immediately called 911 and warned workers in a neighboring business to evacuate. First arriving fire department units found a single story "strip mall" type building with light smoke within the Jersey Mike's Sub occupancy. It appears that the fire was controlled by an automatic sprinkler system prior to the fire departments arrival. There was very little fire damage in the tenant space due to sprinkler system performing as it was designed. Some water damage occurred to the Jersey Mike's store along with two neighboring tenant spaces. The neighboring spaces were expected to re-open within hours of the fire. It is expected that Jersey Mike's will re-open sometime this week. The exact cause of the fire is undetermined but appears to have started in or near a natural gas water heater in the kitchen. No injuries occurred at the scene and damage estimates are still being determined at this time. This fire is a great example showing the benefits of a

properly installed and maintained automatic fire sprinkler system. This system helped these businesses avoid a devastating fire that would have forced them to be closed for a significant amount of time. We highly recommend these systems be installed in all types of buildings including businesses and residential.

Marty King

NFSA's State Coordinator
email: king@nfsa.org

3317 South 113th Street, West Allis, WI 53227
Phone: 414.531.9542

MINNESOTA REGION



TOM BRACE
State Coordinator

MINNESOTA

Lack of Fire Sprinklers Cited in Hastings House Fire

A home in Hastings, Minnesota was destroyed by a fire that caused the death of one pet.

According to Hastings Fire and EMS Director Mike Schutt, firefighters arrived just three minutes after the initial call. When they arrived, they found visible flames on both the main and second levels of the house.

Schutt stated that the fire started in a main floor bedroom and had a slow start. The cause of the fire was attributed to unintentionally discarded smoking material, which ignited some bedding material and spread to the mattress.

The home was built in the 1950s and did not have a fire sprinkler system. Schutt said that a sprinkler system most likely would have contained the fire to the first room.

"A sprinkler system would have changed the entire scenario," he said.

Although the house is still standing, it's being considered a total loss.

Tom Brace

NFSA's Regional Manager / Minnesota
email: brace@nfsa.org

1433 Idaho Ave West, St. Paul, MN 55108,
Phone: 651.644.7800

CENTRAL REGION

TBA

Regional Manager

IOWA, KANSAS, MISSOURI

Regulatory Changes Considered After Fatal Osage Beach, Missouri Fire

Fire officials are considering regulatory changes after four children died in an Osage Beach, Missouri condominium fire in August, 2015.

The recommendations are coming from a nine-member committee appointed by Fire Chief Jeff Dorhauer. after the blaze killed the children. They were in bed when the fire broke out. An adult with them escaped and said he tried to return to rescue the children but became disoriented. Firefighters were unable to reach them in time.

The building was built in the 1980s before the district adopted fire codes. When fire codes were adopted several years later, older multi-family dwellings that did not have fire-suppression systems were grandfathered in, as fire district officials agreed the price tag for retrofitting older buildings with sprinkler systems was cost-prohibitive.

After the fire, district officials were determined to look into measures to improve fire safety without creating a financial hardship for property owners.

Among the proposals to be presented are new rules for fire alarms, the posting of evacuation plans and fire drills. Grills would be banned from decks, fire extinguishers would be required near egress stairwells of each floor of multi-family buildings and non-combustible ashtrays would be added outside buildings.

The committee also is suggesting the installation of sprinkler systems on all stairwells of multi-family dwellings but wouldn't make the systems a requirement.

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REGIONAL ROUNDUP

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SOUTH CENTRAL REGION



CYNTHIA GIEDRAITIS
Regional Manager

ARKANSAS, LOUISIANA,
OKLAHOMA, TEXAS

Texas Two-Week Layout Tech Training

19 Students from around the United States participated in Texas' first "Two Week Tech Layout" class in Arlington, Texas. The Tech Layout Class is coordinated by the NFSA Engineering Department and was taught by John Corso, Jeff Hugo, Robert Upson, & Louis Guerrazzi.

During week two, the students were treated to a "Fire Protection Behind the Scenes" tour of the Dallas Cowboy Stadium hosted by local fire marshals. The students were very pleased with the class and loved Dallas as "a home away from home."

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Installation Requirements

Fire Sprinkler Protection of Storage

NFPA 25 - Understanding,
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Cindy Giedraitis

NFSA's Regional Manager / South Central
email: giedraitis@nfsa.org
PO Box 10403, College Station, Texas
77842. Phone: 979.324.8934

GREAT PLAINS REGION



ERIC GLEASON
Regional Manager

Colorado, Nebraska, North Dakota,
South Dakota, Utah, Wyoming

Around the Great Plains

2016 began with new Colorado State Administrative Rules encompassing training, tagging and mandatory impairment reporting. NFSA Great Plains Regional Manager Eric Gleason hosted a gathering

of 90 AHJs and contractors to discuss Colorado's fire suppression rules & water discharge BMPs. Two more classes have been requested and scheduled in different parts of the state. These rules help bring contractors and AHJs together on fire suppression systems.

Also happening in the Rocky Mountains, Utah is likely to pass a law (HB316) significantly curtailing how building codes can be adopted or amended locally.

Construction is booming in the Great Plains with South Dakota being announced as the nation's fastest growing economy. Contractors across the region are seeing increased bid activity and installation activity.

Please join Eric Gleason at NFPA's annual conference in Las Vegas (June 13-16). Eric has been asked to present nationally about fire suppression, water discharge and the EPA.

Eric Gleason

NFSA's Regional Manager / Great Plains
email: gleason@nfsa.org
P.O. Box 62157, Littleton, CO, 80162
phone: 720.470.4894

SOUTHWEST REGION



BRUCE LECAIR
Associate Director of Regional
Operations - WEST

CALIFORNIA, HAWAII, NEW MEXICO, NEVADA,
ARIZONA

Arizona May Defund Cities That Scoff Fire Sprinkler Law

In an article from Fire House Magazine posted by Bob Christie from the Associated Press in Phoenix, Arizona, an Arizona Senate panel recently voted to advance a proposal that would cut off state shared revenue for cities or towns that pass regulations that conflict with state laws related to fire sprinklers.

The bill, authored by Senate President Andy Biggs, would punish cities and towns after an investigation by the attorney general. The bill would give cities 30 days to rescind the action or lose their state revenue when making local amendments to the state codes related to fire sprinklers or other amendments.

The state sent nearly \$1.1 billion from income and sales taxes to 91 cities and towns in the budget year that ended June 30th, 2015. The sharing of state revenue dates to a 1972 voter initiative that included a deal barring cities and towns from levying their own income taxes in exchange for the state sending them part of its revenue.

For a copy of the full and unedited article go to: <http://bit.ly/1nOKaYB>.

Bruce Lecair

NFSA's Associate Director of
Regional Operations - West
email: lecair@nfsa.org

25417 West Hyacinth Street, Corona, CA 92883
Phone: 951.277.3517, Fax: 951.277.3199

NORTHWEST REGION



SUZANNE MAYR
Regional Manager

ALASKA, IDAHO, MONTANA, OREGON,
WASHINGTON

Washington State Home Fire Sprinkler Forum

While individual jurisdictions in Washington state are able to require residential fire sprinklers, real or perceived problems inhibit support for such measures. The state's home fire sprinkler coalition hosted a forum on March 15th to increase communication and working relations between all parties involved in installing residential systems. Home builders and developers, building officials, fire marshals and fire sprinkler contractors were able to provide candid input on their experiences from initial platting through final inspections.

In a moderated discussion, attendees heard from different perspectives and learned how their decisions or policies affect the process. Among discussion highlights, builders and developers shared their perspective on how variables such as cash flow and individual home sales affect timelines, fire marshals shared their reasoning behind inspections requirements, and fire sprinkler contractors

>> CONTINUED ON PAGE 92

People who know the facts want to live in a home with fire sprinklers



According to a Harris Poll, after learning the facts, 74% of U.S. homeowners said they would be more likely to buy a home with fire sprinklers than one without.

Education is the key to make sure more homes are protected. Share this **FREE** information with your fire department and community.

Living With Sprinklers Kit: Important information for people living in a sprinklered home.

Selling A Home Protected by Fire Sprinklers DVD: Helps real estate agents market and sell sprinklered homes.

Understanding Water Supply For Home Fire Sprinkler Systems Guide: Information for water purveyors, utilities and local officials.

Protecting Your Community with Home Fire Sprinklers DVD: Helps building officials understand why sprinklers are needed to protect occupants and firefighters.

A Quick and Easy Guide to Home Fire Sprinklers DVD: Easy-to-understand information for consumers.

Fire and Sprinkler Burn Demonstration Kit: Everything a fire departments needs to build and conduct a side-by-side demonstration.

All HFSC material is free and can be viewed, downloaded and ordered from the HFSC website:

www.homefiresprinkler.org
or call toll-free: 1.888.635.7222



■ Tyco Announces The Next Generation Butterfly Valve

Tyco's new BFV-300 Butterfly Valve, a lighter, more compact design that allows for more efficient installation, easier operation and better long-term performance.

Unique features of the valve make it smaller, lighter and easier to install and service. Tapping boss locations save time by allowing for quick upstream direct connection to a deluge valve and downstream connection of additional components, or drainage for dry maintenance. The traveling nut gearbox features a single moving part, allowing for a smaller, more compact design that is easier to handle, install and operate. The BFV-300 also features a QR code printed on the gearbox cover for instant on-site access to digital on-line product information by scanning the code with a smart device.

The BFV-300 has a grooved or wafer connection for installation on a range of systems, and supervisory open and closed options - supervisory open to isolate the alarm valve, or supervisory closed for use in a by-pass system. The valve is 100% silicon free and available in sizes from 2" to 12". The BFV-300 is fully approved globally.

For additional information regarding Tyco's BFV-300 Butterfly Valve, please visit www.Tyco-Fire.com/BFV-300.

■ FPPI Extends Its Offer Of Regional Threads - Butterfly Valves Available in Additional Sizes

Fire Protection Products (FPPI) announces new products with regional threads: Hose Valves, Caps, Reducers, and Swivels with Richmond (RCH) threads, as well as Grooved Hose Valves with New York Fire Department, Baton Rouge and Lincoln (NYFD) threads.

All items are available through FPPI distributors. FPPI provides 25 different products in 15 distinctive regional threads, covering 27 regions across the U.S. and Canada

Also, FPPI announces the addition of two new Butterfly Valves: the 1 1/4" Grooved Butterfly Valve and the 1 1/2"

Grooved Butterfly Valve. FPPI now offers four different sizes to meet the diverse requirements of modern fire sprinkler systems. All FPPI Butterfly Valves are UL/ULC Listed and FM Approved (1" size is UL Listed and FM Approved).

For more information go to www.fppi.com or call 800.344.1822.

■ Victaulic Introduces FireLock™ Installation-Ready™ Fittings

Victaulic introduces FireLock™ Installation-Ready™ Fittings (No. 101 90° Elbow, 102 Tee and 103 45° Elbow). The fittings require less fasteners, resulting in faster, simpler installation.

The simplicity of the FireLock EZ™ Rigid Coupling - Style 009N, combined with the convenience of a single-unit design solution, Victaulic FireLock Installation-Ready™ Fittings provide fast, easy pipe connections with no need to disassemble.

For more information please visit www.victaulicfire.com or www.firelockfittings.com to request a demo.

■ Viking Offers New Residential 3.0 K Factor Horizontal Sidewall Sprinkler

The Viking Corporation announces the availability of a new 3.0 (43) K-factor residential horizontal sidewall sprinkler, Model VK479. It provides low flow requirements at smaller areas of coverage, making it a good choice for residential sprinkler systems where the available water supply is limited.

The new Model VK479 sprinkler is cULus Listed with low flow and pressure requirements for coverage areas up to 16 ft x 16 ft (4,9 m x 4,9 m). It has a 1/2" in (15 mm) NPT thread size and a temperature rating of 155°F (68°C). In addition to several standard finishes, a durable ENT plating (Nickel PTFE) is available. The ENT finish is cULus Listed for use in areas subject to corrosion, such as exposed installations near the ocean.

For more information please visit www.vikinggroupinc.com or call 800-968-9501.

REGIONAL ROUNDUP

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outlined the impacts of a lack of accurate water flow information.

"The only way to make change is to start talking about it," said attendee Greg Moffat of Fire Sprinklers Inc. in Sumner, WA. "My hope is that this goes beyond just talk to create some uniformity across the board for all jurisdictions. That way everyone will know what to expect."

The goal is to develop a "best practices guide" to be shared with the Washington State Association of Fire Marshals members at the group's annual education institute this fall.

"The forum allowed contractors and developers a unique opportunity to collaborate with fire marshals on identifying the best practices for installing home fire sprinklers. This effort will guide fire marshals in permit processing improvements and hopefully begin a movement toward all jurisdictions adopting the coalition's best practices" said Todd Short, City of Redmond Fire Marshal and event organizer.

Suzanne Mayr

NFSA's Regional Manager / Northwest

email: mayr@nfsa.org

P.O. Box 7328, Tacoma, WA 98417

phone: 253.208.8467



Members, send us your photos of installations, designs, work out in the field, any great action shots you can think of. We'll keep them on file for use as possible covers for SQ. If your photo is selected for use, you will be notified and given proper credit.

Send hi-res photos to Joanne Genadio at genadio@nfsa.org



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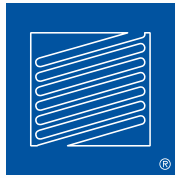
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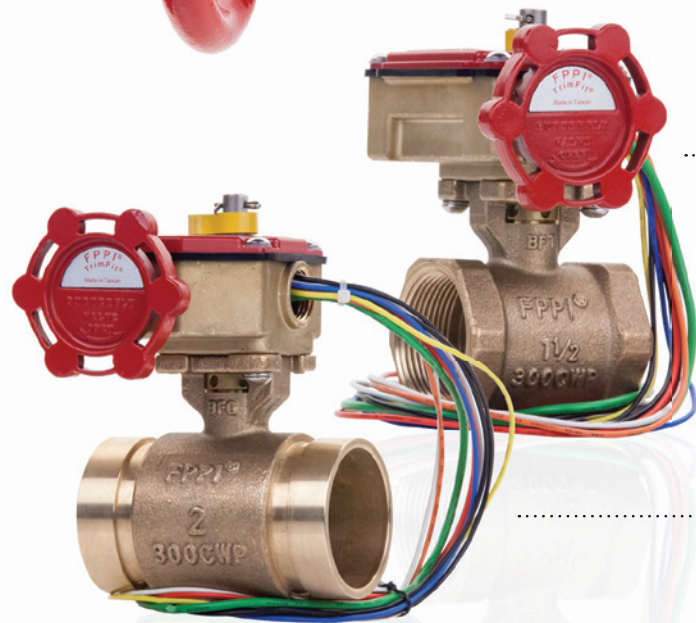


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