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T: (718) 786-8260 E: Steve.Ryback@WJNY.com

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E: robb.risani@arup.com E: nycaspenewsletter@gmail.com

ASPE NEW YORK CITY CHAPTER

PO BOX 293, GRAND CENTRAL STATION, NY, NY 10163

<http://www.aspenyc.org>

**FEBRUARY
MEETING
INFORMATION**

Topic: Next Generation Water Conservation Technologies

Speaker: Jonathan Farr

Sponser: Epic Cleantec

PDH CREDITS PROVIDED

Date: February 4th, 2026

Location: The Tailor Public House & Kitchen - 505 8th Avenue

[Virtual \(No PDH's\)](#)

Time: Dinner Served: 5:30pm

Technical: 5:30-6:30pm

Social: 6:30-8:00pm



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A Message

FROM THE PRESIDENT



My fellow ASPE NYC Members,

We're off to a wonderful start in 2026 with another well-attended meeting! The weather may be cold, but the meetings are always a great place to warm your heart with camaraderie, food, and engaging discussions. Be sure to bring your coworkers to spread the joy of ASPE!

In addition to our meetings, Engineer's Week is also a great time to spread the joy of ASPE and Engineering as a whole. This year, Engineer's Week runs from Sunday, February 22nd to Saturday, February 28th; this time is an opportunity to recognize those in the Engineering community that inspire the next generation of Engineers. **The Board would like to honor those in our ASPE family that are contributing to shaping the minds of young soon-to-be Engineers!** During the last week of February, we encourage you to get involved in promoting Engineering. Whether you participate an office/classroom visit, volunteer at a school/religious/community event, or just spend time with family members on a STEM activity, we want to hear about it! Send in your E-Week photos to ny.aspe@gmail.com, and you'll be featured in our next newsletter. **One lucky participant will also win an Amazon gift card!** So be sure to get out there and promote the Engineering discipline to younger generations!

This year, ASPE's ASSE 6060 MedGas Workshop will be held in our own backyard! From March 23rd to 26th, registrants will have 32 hours of instruction with team-based, hands-on activities at the Viega Experience Center in Long Island City. For more information, please visit <https://aspe.org/medgas-workshop/> or contact medgas@aspe.org.


Later in the year, ASPE heads to Oklahoma City for our bi-annual Convention and Expo! Mark your calendars for October 8th to 14th, as this event is a great way for members to learn about products in the industry, network with peers, and earn CEUs. Visit <https://expo.aspe.org/> for more information!

As our chapter continues to host appealing events and AI becomes more advanced, it's important to stay vigilant of phishing scams and remember the contact information for our board. **Board members will only reach out to you via the emails/phones listed on the cover sheet**, and official chapter communications will only come from ny.aspe@gmail.com, nycaspenewsletter@gmail.com, or postmaster@mg.aspenyc.org. We are thankful to have such an engaged chapter, and we appreciate your diligence to keep it safe!

We look forward to seeing you all our next Chapter Meeting on February 4th! Same great time, same great place.

Yours in ASPE,
Sean Mooney, CPD






MedGas Workshop

American Society of Plumbing Engineers



March 23–26, 2026

Hosted by Viega
New York City (Queens)



ASPE's MedGas Workshop fulfills the training requirements for the ASSE 6060: Medical Gas Systems Designer professional certification. By attending, you will enjoy all of the benefits of our 32-hour in-person experience, which include:

- Personal interaction with our expert instructor, Mark Allen
- Team-based, hands-on activities
- Practical design exercises with calculation examples
- ASSE 6060 practice exam
- Copy of NFPA 99-2024: Health Care Facilities Code
- Quizzes to test knowledge retention
- Calculator and supplies for hands-on exercises
- Lunch, drinks, and snacks each day
- 1.2 ASPE CEUs



Third-party testing will be available through Sherman Engineering after the workshop on March 27. If you would like to sit for the exam, please contact Nikita Patel, PE, ASSE 6060, at npatel@shermanengineering.com or 570-899-9090.

"The knowledge provided was phenomenal, and I would argue you would be hard pressed to find a better seminar on medical gas."

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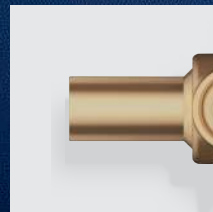
ADDITIONAL CONNECTIONS



1/2" PEX crimp inlets



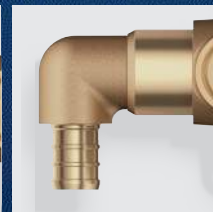
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The Statue of Liberty is depicted in a grayscale, slightly desaturated style. She is holding a large, black industrial pipe in her right hand. The pipe has white text on it: "USA CH" and "PIPE". The background is a faded, high-angle view of the New York City skyline, with various skyscrapers visible. The overall aesthetic is industrial and gritty.

NEW YORK CAST IRON CITY

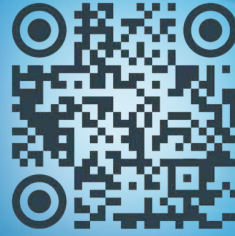
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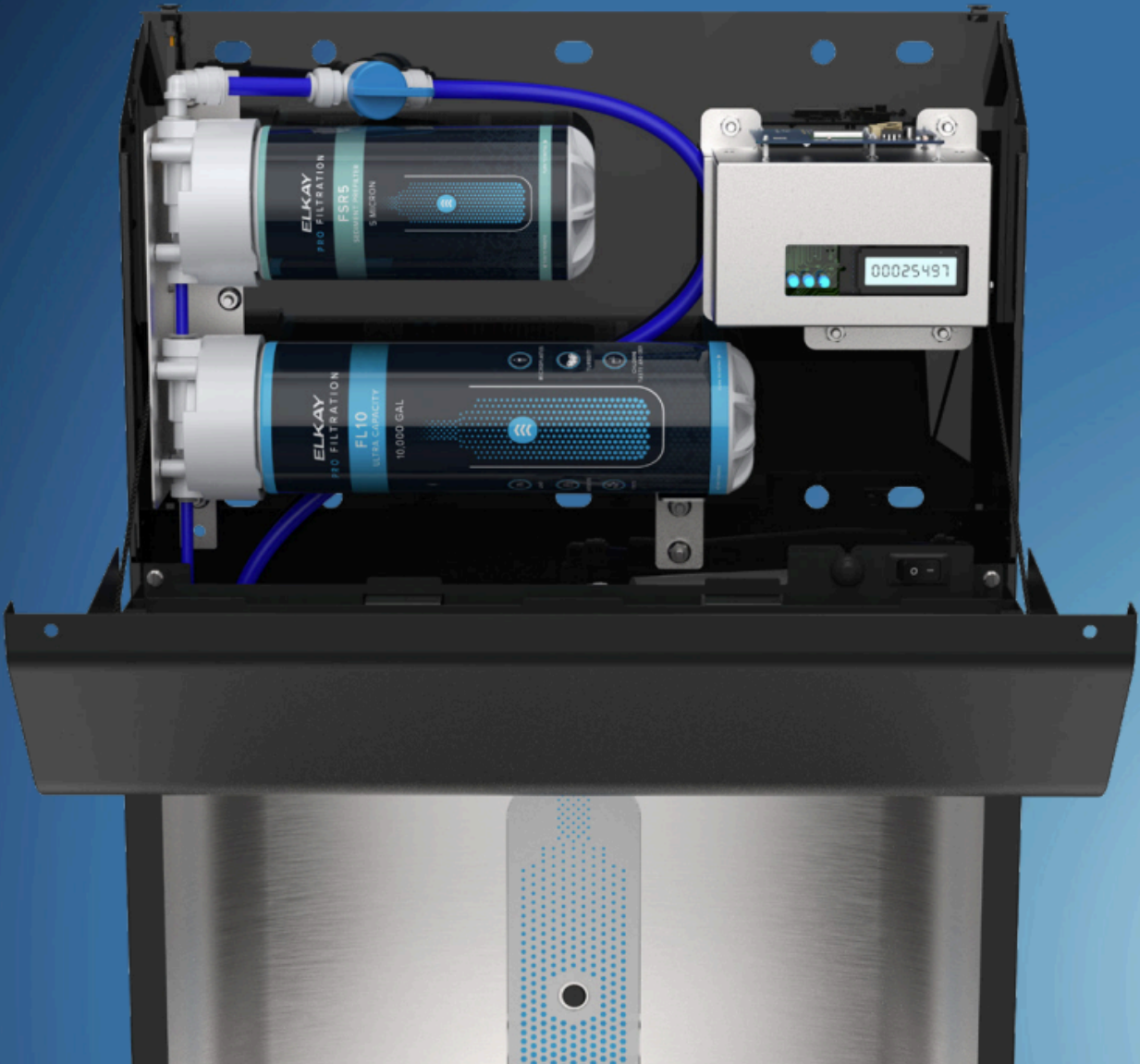
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RENEWAL EXAM

The renewal will include instruction by Mark Allen via MS Teams followed by an exam.

QUESTIONS?
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01

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03

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04

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05

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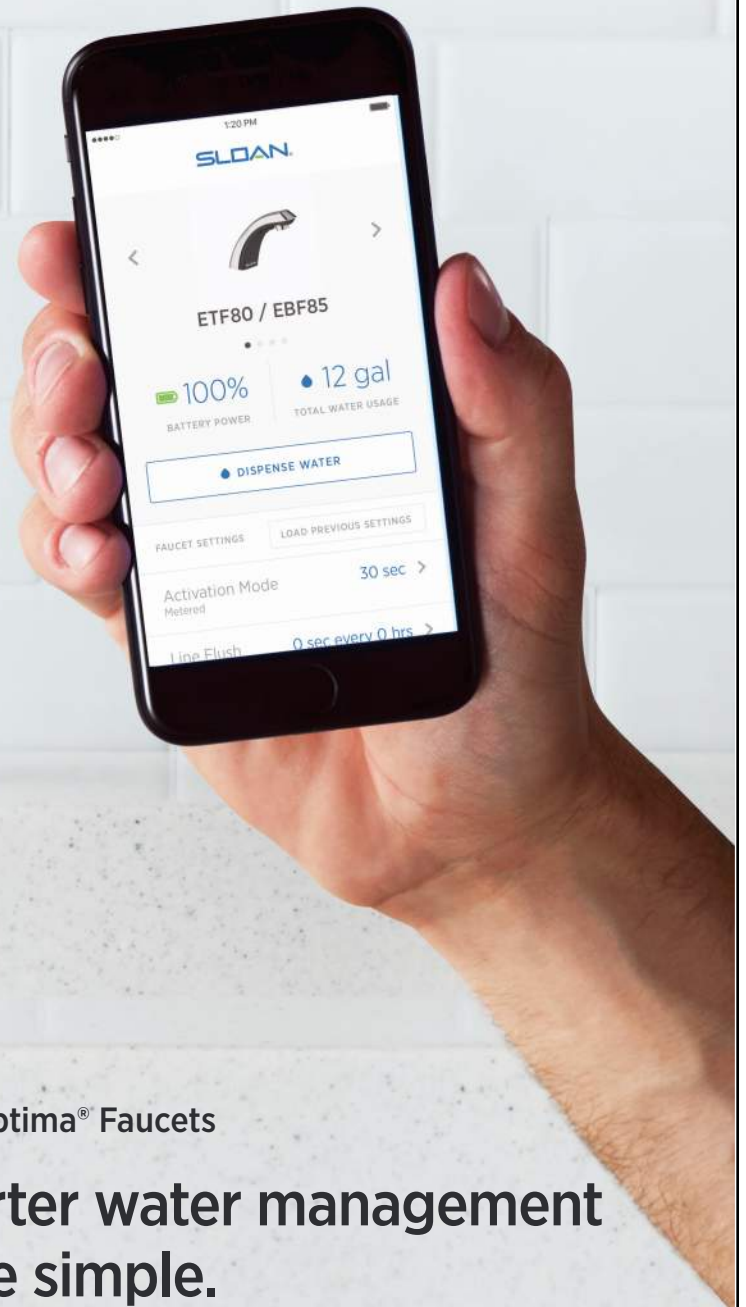
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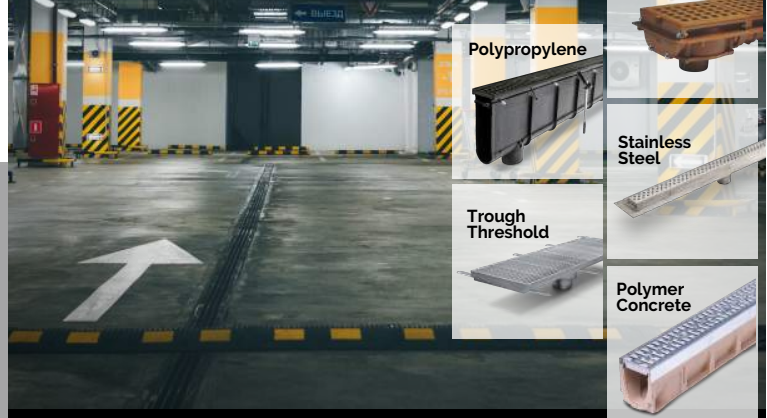
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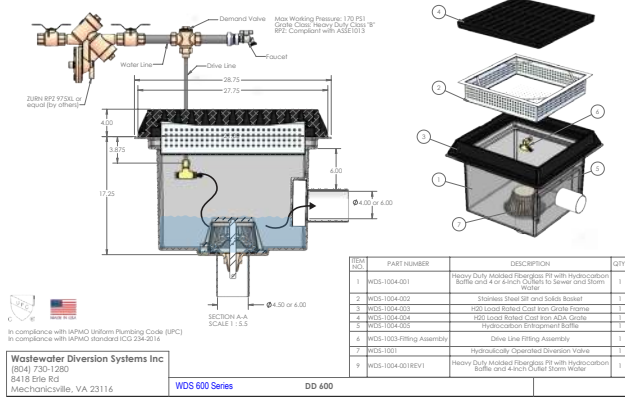
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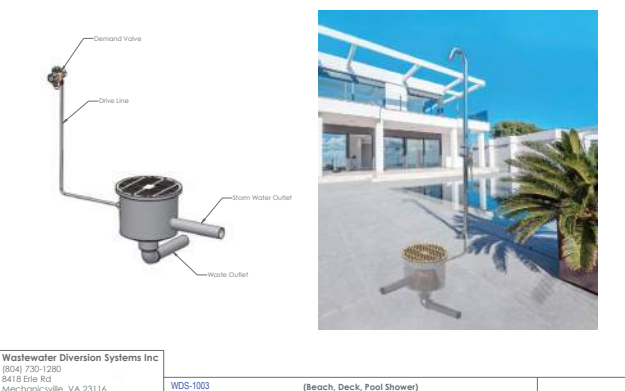
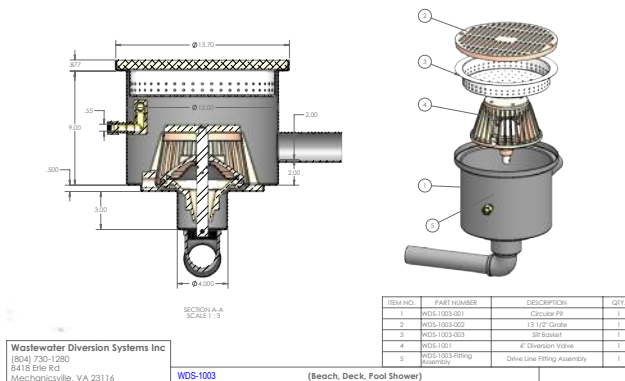
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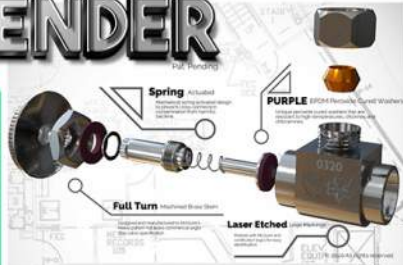
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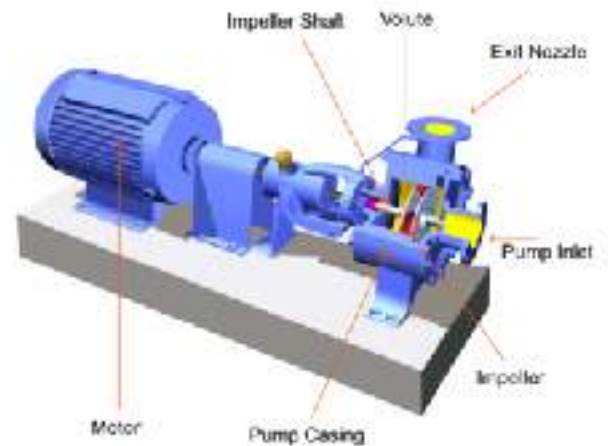


Pump Basics

A pump's job is to move fluids by adding energy, typically by increasing pressure or flow, to transfer them from one location to another, lift them to a higher level, or move them from low to high pressure areas. This allows us to wash our hands, flush out toilets, heat our spaces and help during a fire emergency. All pumps have two main components in common, which are the motor and the impeller.

The Motor is the main driving force of the system. It provides the necessary power via rotational energy to generate the required flow and pressure in the pump system. Typically, the motors are electric but can also be diesel, gasoline or natural gas powered depending on the application and availability of a power source.

The Impeller transfers the motor's rotational energy to a fluid, acting as the heart of a centrifugal pump by accelerating the liquid outward, increasing its velocity, and converting that kinetic energy into pressure to move it through the system. The 4 most common pump applications in plumbing systems are:



Pressure boosters for domestic water systems which ensure adequate flow to all fixtures, especially in multi-story buildings where the municipal supply may not be sufficient.

Sprinkler and standpipe systems which provide the necessary water demand to sprinkler and standpipe systems during fire emergencies.

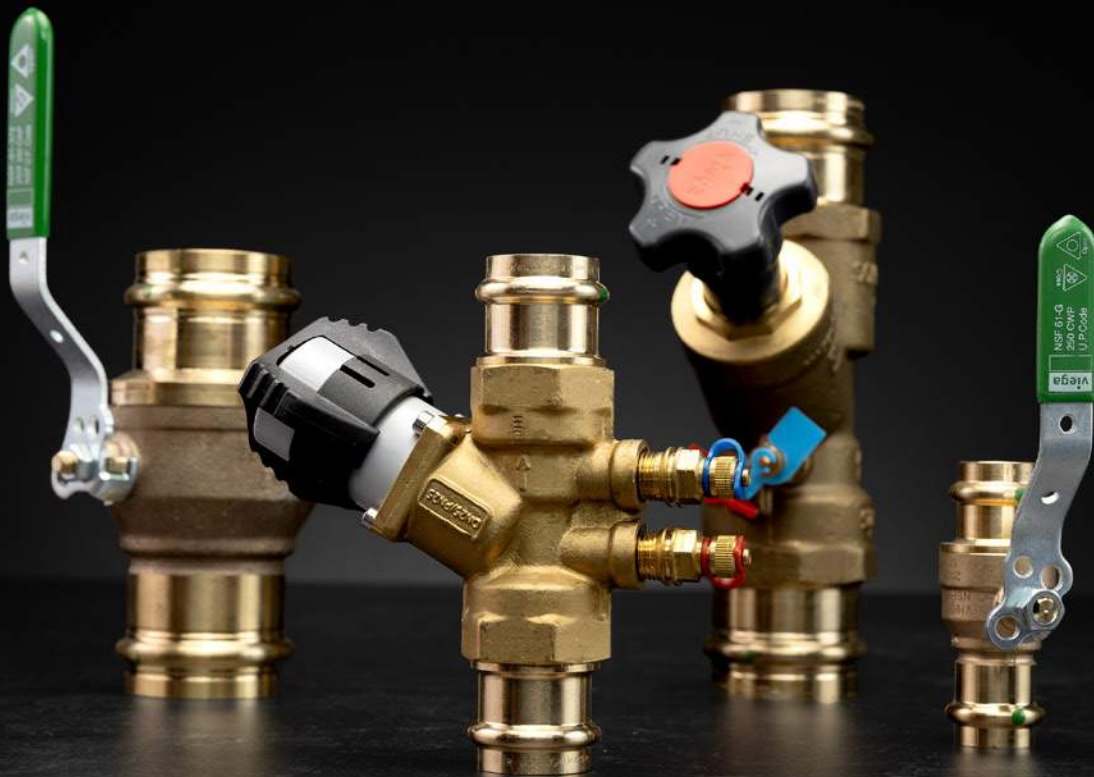
Water circulation pumps for heated water systems provide the movement of hot water throughout a building's plumbing system, ensuring that hot water is readily available at fixtures without long waits.

Sanitary and Sump pumps which are used in plumbing systems to move water— typically from fixtures located below the main sewer line, like in a basement or cellar—up to a level here gravity can carry it away.

More information on the different pumps systems can be found in the APSE Plumbing Engineering Design Handbook Volume 4, Chapter 4. The ASPE Design handbooks serve as a great reference tool for both new engineers who are learning about plumbing design as well as seasoned engineers who want to hone their knowledge.

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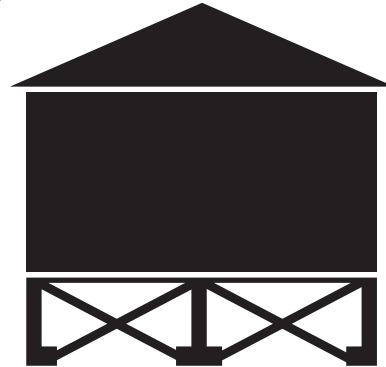
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JANUARY MEETING MINUTES

The January meeting was initiated by Steve and began with the Pledge of Allegiance, after which, a couple announcements were made. There is an ASSE 6060 Medical Gas Workshop March 23rd-26th. Link to register can be found on the website and in this newsletter. The ASPE/ASSE summer golf outing will be on Monday, August 10th.

Technical Presentation: Code Requirements for Rooftop Equipment and Supports by Luis Capunay

Luis outlined the objectives of the presentation, which included identifying common failures associated with rooftop supports, reviewing applicable building and trade codes, examining real-world damage examples and FEMA assessments, clarifying responsibility for design and installation, addressing delegated design and deferred submittal requirements, and reviewing examples of compliant rooftop support systems.

The presentation began by explaining why codes and standards exist for rooftop equipment supports. Referencing the **2024 International Building Code Section 101.3**, Luis stated that the fundamental purpose of building codes is to establish minimum requirements that protect life safety, public health, building integrity, and emergency responder safety. Rooftop equipment supports directly affect structural performance, waterproofing integrity, and occupant safety, making them subject to rigorous regulation. He noted that contractor “field-fabricated” supports frequently fail to meet these minimum requirements and are often rejected by building officials.

To reinforce the importance of compliance, Luis presented findings from **FEMA 489: Mitigation Assessment Team Report**, describing a documented wind failure involving a 30-foot by 10-foot by 8-foot HVAC unit weighing approximately 18,000 pounds. The unit was attached to a curb that did not meet code requirements. Despite wind speeds of only 85 to 95 miles per hour, the unit failed on a building that was less than 1 year old and located 20 feet from the roof edge. This example demonstrated that rooftop support failures occur well below extreme wind conditions when systems are improperly designed or installed.

Luis then reviewed the evolution of building codes and load standards applicable to rooftop supports, including multiple editions of the International Building Code and ASCE 7. He explained that current designs rely on the **2024 IBC** and **ASCE 7-22**, while older buildings may reference earlier editions such as ASCE 7-10 or ASCE 7-16. Regardless of edition, rooftop supports must be designed to meet required loads and conform to industry standards including IIAR, ASHRAE, MSS SP-58, SMACNA, NFPA 70, and roofing manufacturer requirements. Codes and standards must be applied together on every project to achieve compliance.

Luis addressed the question of why wind loading is always required while seismic loading is sometimes exempt. He explained that the **International Mechanical Code Section 301.15** mandates wind resistance for all rooftop mechanical equipment and supports without exception. FEMA assessments have shown that wind turbulence, uplift, and membrane damage occur regardless of perceived shielding from adjacent structures, and codes explicitly prohibit reducing wind loads due to shielding effects. Seismic loads, by contrast, may be exempt depending on geographic location and seismic risk category.

The presentation then examined what the codes specifically require. Luis explained that designers should begin with the trade codes—IMC, IPC, IFGC, and NEC—and conclude with the IBC and ASCE 7 for structural loading. The IMC requires that mechanical equipment and supports resist wind loads determined by the IBC and seismic forces where applicable. The IPC mandates structural attachment of plumbing piping supports and includes spacing tables, while the IFGC establishes similar requirements for fuel gas piping. NFPA 70 governs electrical conduit support spacing and attachment. Collectively, these codes require that rooftop systems be attached to the building structure in an approved manner and supported at prescribed intervals.

Luis emphasized that support spacing and attachment requirements exist to prevent system failures. He cited SMACNA provisions for duct support spacing, noting that wide ducts require closer spacing to prevent sagging. He also reviewed NEC requirements limiting conduit support spacing to 10 feet for metal conduit. These requirements exist because rooftop installations are exposed to wind, thermal movement, and vibration that can quickly cause failure if not properly supported.

Thermal expansion and contraction were identified as another critical design consideration. **IMC Section 1206.9**, **IPC Section 308.8**, **IFGC provisions**, and **NFPA 70** all require systems to accommodate expansion and contraction caused by temperature changes. Luis explained that failure to account for movement has led to cracked piping, damaged supports, and compromised roof membranes. Flexible connections and expansion fittings are required to prevent stress buildup.

Safety access requirements were also reviewed. **IMC Section 306.5** requires permanent access to rooftop equipment when access height exceeds 16 feet. Portable ladders are not permitted, parapet climbing is restricted, and walking surfaces must comply with **OSHA 1910 Subpart D**. Luis explained that safe access is a code requirement because rooftop systems require ongoing inspection and maintenance, and lack of access increases both injury risk and deferred maintenance.

Material selection was identified as a frequent source of noncompliance. IMC and IPC require approved materials that prevent galvanic action and can withstand static and dynamic loads. IFGC requires piping supports to meet strength and quality requirements. Luis challenged attendees to consider the long-term durability of supports and whether warranties exist to cover roof or equipment damage caused by support failure.

Luis then addressed structural loading requirements in detail. **IBC Chapter 16 and ASCE 7** establish minimum loads that must be considered, including dead load, live load, snow load, wind load, seismic load, and tornado load. He emphasized that wind loads can never be exempted or reduced, while seismic loads may be exempt depending on location. Snow drift and accumulation must be evaluated, and **ASCE 7-22** introduces tornado loading requirements for certain Risk Category III and IV buildings in tornado-prone regions.

Wind loading was highlighted as the most critical factor. ASCE 7 explicitly prohibits reductions due to shielding, and rooftop supports must be designed for lateral and uplift forces. Self-weighted or ballasted supports alone are not permitted because they do not provide positive attachment. Luis explained that many rooftop supports fail because they are not engineered and rely solely on weight rather than structural anchorage.

Responsibility for rooftop support compliance was clearly defined. Mechanical, electrical, and plumbing engineers are responsible for specifying support requirements for their respective systems. The Structural Engineer of Record provides structural design criteria and oversees delegated designs. The Architect of Record coordinates delegated design requirements. Contractors and roofers must provide deferred submittals prepared by licensed engineers. Specifications and drawings are the only means by which contractors understand code requirements, making proper documentation essential.

Luis reviewed deferred submittal requirements under **IBC Section 107.3.4**. At a minimum, rooftop support submittals must include engineering calculations demonstrating compliance with loading requirements, detailed shop drawings showing materials and connections, roof layout drawings indicating support locations, and a compiled engineering package stamped by a licensed professional in the jurisdiction.

The presentation concluded with code-compliant examples of engineered rooftop support systems that properly address wind, seismic, expansion, and attachment requirements while remaining non-invasive and compatible with roofing warranties. Luis emphasized that floating or sleeper supports alone do not satisfy code requirements.

In closing, Luis reiterated that engineered rooftop equipment supports are explicitly addressed in building codes to limit risk to life, property, and building operations. Standards exist to help each discipline meet code requirements, but responsibility ultimately lies with project professionals to ensure rooftop supports are shown, specified, and designed correctly on every project. The session concluded with a question-and-answer period and discussion of practical applications.





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Dear NYC ASPE Members,

Hopefully by now you've had a chance a drop by the Code Corner to see what its about. In case you haven't, this is a place to get an update into what's happening with discussions of the plumbing code committee. You have an opportunity to participate, NYC ASPE members can email me their concerns regarding particular code sections and the associated language which they believe needs to be discussed during code committee meetings.

Best Regards, Vinny Rotoli

Email: rotoliv@vfreengineering.com



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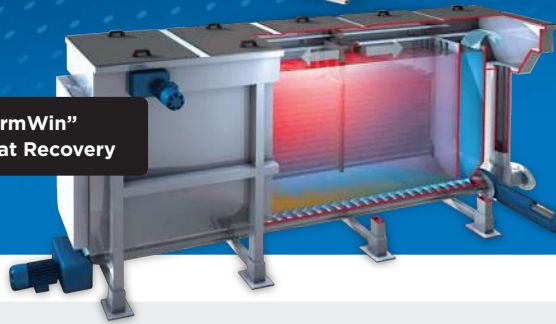
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