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Energy-Water Nexus Legislation Supported by IAPMO Included in Senate Bill

Language supported by IAPMO and prioritized by the High-Performance Buildings Congressional Caucus Coalition (HPBCCC) has been included in a comprehensive bill formally introduced in the U.S. Senate last week by Sen. Lisa Murkowski (R-Alaska), chairman of the Senate Energy and Natural Resources Committee.

The larger Energy Policy Modernization Act of 2015 (EPMA) now includes the Nexus of Energy and Water for Sustainability Act of 2015 (NEWS Act), provisions championed by IAPMO and the HPBCCC, which is chaired by IAPMO's Vice President of Governmental Relations Dain Hansen.

"After three long days of markups by the Senate Energy and Natural Resources Committee, it is great to see the NEWS Act included in the base bill, with strong bipartisan support," Hansen said. "Having this critical bill be included by the chair of the committee bodes well the legislation's prospects. With the House moving forward with serious energy legislation and now the Senate following suit, it clearly shows these efforts rise above political posturing with the purpose of enacting sound policy."

Section 4101 of Sen. Murkowski's EPMA

(<http://www.energy.senate.gov/public/index.cfm/hearings-and-business-meetings?ID=17a3a637-d168-43ab-a293-5667f0da3715>) includes The NEWS Act, which would

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establish an Interagency Coordination Committee, co-chaired by the secretaries of Energy and Interior, to identify all relevant energy-water nexus activities across the federal government; enhance the coordination of research and development activities among agencies; gather and disseminate data to enable better practices; explore relevant public-private collaboration; and develop a research and development plan for energy-water nexus related programs. It would further establish the Nexus of Energy and Water Sustainability (NEWS) office to provide leadership and administrative support functions for the Interagency Coordination Committee.

The HPBCCC is a private-sector coalition of approximately 200 organizations providing guidance and support to U.S. Congress on national policies. The Coalition works with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings.

For more information on the legislation, contact Hansen at (202) 445-7514 or dain.hansen@iapmo.org.

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IAPMO Member Sarah Aguilar Recognized by Equal Rights Advocates

Equal Rights Advocates (ERA) has highlighted Sarah Aguilar in their "Tradeswomen Tuesday" feature.

Some of you may remember Sarah from IAPMO conferences. Ms. Aguilar is a very active IAPMO member from the Central California Chapter. She also serves on the Technical Correlating Committee, and is a great IAPMO advocate. Congratulations on the recognition Sarah, well deserved!

Read the full article here: <http://www.equalrights.org/tradeswomen-tuesday-sarah-aguilar-retired-plumber-local-393-california/>

Equal Rights Advocates (ERA) is a national civil rights organization dedicated to protecting and expanding economic and educational access and opportunities for women and girls.

Through its campaign approach – incorporating public education, legislative advocacy, and litigation – ERA seeks to assist women and girls throughout a life-long continuum: ensuring equality in their educational experience, combating sex discrimination in the workforce, and advocating for workplaces hospitable to working families.

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IAPMO R&T Announces New American National Standard for Solar Heating Systems

IAPMO R&T, a leading developer of standards for the plumbing, mechanical and solar industries, is pleased to announce that new standard **IAPMO/ANSI S1001.4, Energy Production Rating of Solar Heating Collectors**, has been designated an American National Standard by the American National Standards Institute (ANSI).



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BPPS MAGAZINE



Backflow Prevention & Plumbing Standards (BPPS) magazine is the only monthly trade publication dedicated to the backflow prevention and plumbing industries. BPPS is specifically designed to address each of our audiences - including contractors, plumbers, sprinkler fitters, irrigation personnel, backflow prevention assembly installers and testers, water utilities, water operators, inspectors and manufacturers - in each and every issue.

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Personnel certification and

IAPMO's S1001 Solar Standards Technical Subcommittee members met in a collaborative and open process to develop a solar heating collector rating standard that is completely transparent and available at no charge to interested parties. A calculator, which automatically duplicates the calculations set forth in the standard, is also available at no charge.

The purpose of this standard is to specify a comprehensive calculation procedure to evaluate the daily energy production of individual collectors under a specific set of climatic conditions, using new or existing laboratory test results conducted according to established collector test procedures. This allows incentive program administrators and code authorities to specify an ANSI standard to set minimum solar collector performance levels, and allows end-users to compare the performance of various collectors under a range of operating conditions. This standard forms the basis for fair competition in collector rating services.

A copy of the standard may be downloaded at <http://goo.gl/YEFCK9>

For 89 years, The IAPMO Group has offered a comprehensive menu of services – product testing and certification, code and standard development, training and education – offering clients one-stop sourcing for their solar, plumbing and mechanical needs. For a complete listing of available services, visit www.iapmo.org.

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June Construction Starts Retreat 15 Percent

New construction starts in June dropped 15% from the previous month to a seasonally adjusted annual rate of \$620.2 billion, according to Dodge Data & Analytics. The decline followed an especially strong May, which benefitted from a \$9.0 billion liquefied natural gas (LNG) export terminal in Texas being entered as a May start. By major sector, nonbuilding construction in June fell sharply as the result of a steep pullback by its electric utility and gas plant category, while nonresidential building witnessed a less severe loss of momentum. Residential building in June was able to post a slight gain, helped by the continued strength for multifamily housing. During the first six months of 2015, total construction starts on an unadjusted basis were reported at \$336.0 billion, up 23% from the same period a year ago. If the volatile electric utility and gas plant category is excluded, total construction starts during the first half of 2015 would be up a more moderate 11% from the same period a year ago.

June's data lowered the Dodge Index to 131 (2000=100), down from 154 in May. Through the first six months of 2015, the Dodge Index averaged 144, helped by especially strong readings in February, April, and May which reflected the start of several massive projects in those months. June's 131 for the Dodge Index is at the low end of what's been reported so far in 2015, but still above the 125 average for 2014 as a whole.

Read the full report: <http://construction.com/about-us/press/June-Construction-Starts-Retreat-15-Percent.asp>

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Revised ASSE Standard for Push-Fit Fittings Now Available

ASSE 1061-2015, Performance Requirements for Push-Fit Fittings, has been revised and approved by the American National Standards Institute (ANSI), and is now available for purchase.



The 2015 Uniform Plumbing and Mechanical Code books are available for sale! Call us today at 1-800-85-IAPMO or visit iapmomembership.org.



The 2015 revision of ASSE1061, first published in 2006 and revised in 2011, was developed to establish minimum performance requirements for push-fit fittings – an alternative method of connecting fittings with valves and tubing on potable water distribution systems and hydronic heat systems.

"For more than nine years, ASSE 1061 has given users and code officials peace of mind that push-fit fittings meeting the requirements of this standard are high quality products," said ASSE 1061 Working Group Chairman William Chapin. "We are very fortunate that many stakeholders have volunteered their time and efforts over the past years to continuously improve this standard."

ASSE 1061 applies to push-fit fittings and push-fit connections that are used with PEX tubing, copper tubing, CPVC tubing and/or PE-RT tubing. The fittings covered in this standard are intended for use in hot and cold potable water distribution and hydronic heating systems in residential and commercial applications.

To purchase the ANSI-approved ASSE 1061-2015, please visit the ASSE International Webstore at stores.assewebstore.com. For questions regarding the standard, contact Conrad Jahrling, ASSE International staff engineering supervisor, by email at conrad.jahrling@asse-plumbing.org or by phone at (708) 995-3017.

ASSE International is an ANSI-accredited standards developer and product certification body comprised of members representing all disciplines of the plumbing and mechanical industries. ASSE's product performance standards, professional qualifications standards, professional certification and product listing programs aim to improve the performance and safety of plumbing and mechanical systems. Learn more about ASSE International at <http://www.asse-plumbing.org>.

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ASSE International Publishes New Scald Awareness White Paper Adjustment of Automatic Compensating Valves to Prevent Potential Scald Hazards

ASSE International has published its third scald awareness white paper, "Adjustment of Automatic Compensating Valves to Prevent Potential Scald Hazards," which is available for free download at www.asse-plumbing.org and www.facebook.com/asse1906.

Developed by the ASSE International Scald Awareness Task Group, the primary goal of this paper is to educate, or re-educate, the general public and plumbing industry on the necessity of properly setting limit stops on water temperature control devices.

"The purpose of the Scald Awareness Task Group is nothing more than an extension of 'Prevention Rather Than Cure' – the guiding motto of ASSE International," said ASSE Scald Awareness Task Group Chairman Richard J. Prospal. "Setting the limit stop on a temperature limiting device is the most important part of the device's installation; it is the hope of the task group that our latest paper will be a reminder to every installer that they need to complete their jobs and properly set limit stops."

This paper does not attempt to determine which temperature-limiting device should be used in which application. However, the ASSE International Scald Awareness Task Group is in the process of developing a white paper to address proper and improper applications of temperature-limiting devices within ASSE's portfolio of product performance standards. The product performance standards that will be discussed in the upcoming white paper include: ASSE 1016-2011/ASME A112.1016-2011/CSA B125.16-11, Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations; ASSE 1017-2009, Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution



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Systems; ASSE 1069-2005, Performance Requirements for Automatic Temperature Control Mixing Valves; and ASSE 1070-2004, Performance Requirements for Water Temperature Limiting Devices.

ASSE International strongly encourages all industry professionals, industry associations, members of the media, and those with a desire to protect the general public to join ASSE in disseminating the Scald Awareness Task Group's white papers — all of which were written to provide education and awareness of the potentially scalding hazards of domestic hot water.

"Adjustment of Automatic Compensating Valves to Prevent Potential Scald Hazards," along with the task group's two previous scald awareness white papers, "Scald Hazards Associated with Low-Flow Showerheads" and "Understanding Potential Water Heater Scald Hazards," can be viewed and downloaded at www.asse-plumbing.org.

For more information, contact ASSE Scald Awareness Task Group Chairman Richard J. Prospal at rjrospal@asse-plumbing.org.

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Uniform Evaluation Service Adds Structural Steel and Precast Concrete Fabricators Recognition Program

Uniform Evaluation Service (UES) is pleased to announce a unique Fabricators Certificate of Recognition program that documents a fabricators' in-house Inspection Program complies with the IAPMO Uniform Evaluation Criteria for Fabricator Inspection Programs for Structural Steel (EC-020) or IAPMO Uniform Evaluation Criteria for Fabricator Inspection Programs for Precast Concrete (EC-022) and recognition as an approved fabricator under Section 1704.2.5.1 of the 2015 International Building Code, Section 1704.2.5.2 of the 2012 International Building Code, and Section 1704.2.2 of earlier code editions. By complying with these criteria, fabricators establish that they have the necessary personnel, equipment, processes, and procedures in place to consistently manufacture the fabricated products to the project specifications. This allows for those applicable special inspections to be waived by the code official.

IAPMO Uniform ES has published evaluation criteria for structural steel fabricators (EC20) and precast concrete fabricators (EC22). These criteria sets forth the information needed to document the fabrication facility's quality system, including a schedule of surveillance inspections by qualified inspection bodies:

- Industry Standards — IBC, ACI 318, CSA A23.4, PCI MNL-116, AWS D1.4, ISO/IEC 9000
- Locations — Multiple locations can be reviewed under one application.
- Scope of Evaluation — The type of work (precasting, prestressing, welding, etc.) performed at each facility
- Inspection Body — This agency, accredited according to ISO/IEC 17020, will provide recurring QA inspections
- Audits and inspections — Content and frequency conducted by an accredited third party inspection body.
- Processes as applicable — Steel cutting, welding, fitting, cambering, coatings, Concrete mixing, placement, curing
- Personnel — QC manager, inspector, technicians
- Records — Details on inspection and testing reports
- Maintenance — Updating and improving quality system

UES Vice President Richard Beck, PE, CBO, MCP, explains why Uniform Evaluation Certificates of Recognition are so valuable: "Manufacturers can now reference their

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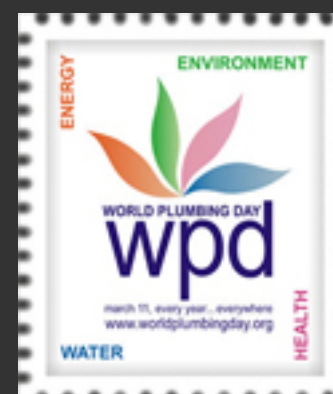
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fabrication certification to show code officials quickly they have the information required for their decision to waive applicable special inspections." Brian Gerber, PE, SE, vice president of Technical Operations, adds: "It is exciting to add Fabricator Recognition to UES' menu of services; after all, it's a natural addition to our evaluation and listing programs."

IAPMO's UES offers a full range of recognition opportunities, including recognition for the applicable national model codes, as well as Florida, California, and various other state codes. By combining all of these recognitions into one concise report, listing, or certificate prepared by an internationally recognized product certification body, the UES program reduces cost and increases value.

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Berkeley Lab Study Finds that Future Deployment of Distributed Solar Hinges on Electricity Rate Design

Berkeley, CA — Future distributed solar photovoltaic (PV) deployment levels are highly sensitive to retail electricity rate design, according to a newly released report by researchers from the U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab). The study also explores the feedback effects between retail electricity rates and PV deployment, and suggests that increased solar deployment can lead to changes in PV compensation levels that either accelerate or dampen further deployment.

"We find that retail rate design can have a dramatic impact on PV deployment levels," says report author Naim Darghouth, a researcher in Berkeley Lab's Energy Technologies Area. "For example, rate design changes currently being considered by a number of utilities, and modeled in our study, can dramatically erode aggregate customer adoption of PV (from -14% to -61%, depending on the design)."

The report, which uses a solar deployment model originally developed at the National Renewable Energy Laboratory, also examines PV deployment levels under broad adoption of time-of-use rates, purely volumetric rates, feed-in tariffs, and avoided cost-based rates. Most of these scenarios lead to deployment levels lower than under a continuation of net metering and current rate designs.

The report also considers two potential feedback effects between solar deployment and retail electricity rates. The first, commonly-noted feedback occurs if increased solar deployment leads to under-recovery of utility fixed costs, creating a need to increase retail electricity prices, thereby accelerating solar deployment. A second, less-frequently discussed—and opposing—feedback occurs when increased solar deployment causes a shift in the timing of peak electricity pricing, which tends to dampen solar adoption by customers on time-of-use rates.

"Our study shows that—at least on a national basis—these two feedback effects largely counteract one another. As such, current discussions that focus largely on the fixed-cost recovery feedback miss an important and opposing feedback mechanism that can in many circumstances moderate the issue of concern," notes Berkeley Lab's Ryan Wiser, a co-author on the report.

Exemplifying these feedbacks are the deployment impacts from switching all customers to time-varying rates. In the shorter term, up to about 2030, the study finds that PV deployment is greater than in the reference scenario — a result of the higher average compensation for PV under time-varying rates which boosts PV deployment. However, as regional PV levels increase and the energy and capacity value of PV drops, the compensation for net-metered PV generation under time-varying rates also falls, which leads to lower PV deployment levels. Therefore, proposals to move

towards time-varying rates may boost PV deployment in the shorter term, but may actually reduce PV deployment in the longer term.

The report was motivated by the fact that rapid growth of net-metered solar PV has provoked concerns about the financial impacts of that growth on utilities and ratepayers. To address these concerns, an increasing number of states are exploring changes to net metering rules, retail rate structures, or both. According to report co-author Galen Barbose, "Understanding the deployment impacts of potential reforms to rate design and net metering will be critical for regulators and other decision makers as they consider changes to retail rates, given the continued role of PV in advancing energy and environmental policy objectives and customer choice. This report makes a unique contribution by quantitatively assessing these possible deployment impacts."

The report, *Net Metering and Market Feedback Loops: Exploring the Impact of Retail Rate Design on Distributed PV Deployment*, may be downloaded at <http://emp.lbl.gov/reports/re>, along with a factsheet and summary slide deck.

A webinar presentation of key findings from the report will be held today, July 9, at 11 am Pacific Time (2 pm Eastern Time). To receive log-in instructions for the webinar, register at <https://goo.gl/uuLVWa>.

This research was supported by funding from the U.S. Department of Energy's SunShot Initiative.

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Seattle, WA Urge Water Conservation Amid Drought

The cities of Seattle, Tacoma and Everett have activated their water shortage plans and are urging residents to conserve water, according to seattletimes.com.

The region is experiencing historically low river levels, record-setting heat and increased water demand, according to a Tacoma Public Utilities news release.

"The City is making water system adjustments, and I know Seattle customers will continue to do their part as we plan for more hot and dry weather," said Mayor Ed Murray in a press release. "We want Seattle and the entire region to be in the best possible shape with water supply when the fall rains return."

Drought-like conditions across the state have affected the health of sockeye salmon, wheat, and made the Puget Sound region more susceptible to brush fires.

Read the full article: <http://www.seattletimes.com/seattle-news/environment/seattle-everett-tacoma-urge-water-conservation-in-drought/>

Read the press release: <http://www.seattle.gov/news/detail.asp?ID=15169&Dept=20>

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De Blasio Administration Provides Update on City's Steps to Protect New Yorkers From Legionnaires' Disease

Mayor Bill de Blasio and Health Commissioner Dr. Mary T. Bassett announced last Thursday that City health officials have identified and are overseeing the cleaning of two sources of Legionnaires' disease in the South Bronx. The two sources already identified are cooling towers at Lincoln Hospital and Concourse Plaza. The Department is working with the owners of both cooling towers and they have begun the process of remediation to reduce the potential for exposure. The City is also testing

other possible sources and will order decontamination of any additional sources. The Health Department is testing 10 additional sites surrounding the affected area. The Health Department is also interviewing patients and reviewing records to determine whether cases share a common exposure.

Initial steps for decontamination include treating the cooling tower where *Legionella* bacteria were found with a disinfectant, and continuously flushing the system with fresh water. There have been 46 reported cases of Legionnaires' disease reported in the South Bronx since July 10, 2015. Nine of the hospitalized patients have been discharged. Two patients have died.

Legionnaires' disease is NOT contagious. It cannot be spread from person to person, and it is treatable with antibiotics. As with any infection, early diagnosis is desirable. The vast majority of patients recover from the infection.

"We will continue to be vigilant on all fronts, ensuring the health and safety of New Yorkers by both addressing Legionnaires' at its source, and ensuring affected New Yorkers who need it are getting proper treatment" said **Mayor de Blasio**.

"As we continue to investigate the potential sources of this cluster, we remind New Yorkers that this is a very treatable disease and we urge anyone who might be experiencing symptoms of Legionnaires' disease to seek medical attention immediately" said **Health Commissioner Dr. Mary T. Bassett**. "Additionally, the New York City water supply does not pose a risk, so people should continue to feel confident in drinking tap water to stay cool during this period of hot weather."

Read the full press release and watch the news conference at <http://www1.nyc.gov/office-of-the-mayor/news/528-15/de-blasio-administration-provides-on-city-s-steps-protect-new-yorkers-legionnaires-#/0>

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I-Connection Electronic Newsletter

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Industry Calendar

86th Annual Education and Business Conference
 Sept. 27 - Oct. 1, 2015
 Las Vegas, NV
www.iapmo.org

2015 ASPE Technical Symposium
 October 1 - 4, 2015
 St. Louis, MO
www.aspe.org/2015-ts-home-page

WaterSmart Innovations Conference and Exposition
 October 7 - 9, 2015
 Las Vegas, NV
www.watersmartinnovations.com

ASSE Annual Meeting
 November 3 - 7, 2015
 Phoenix, AZ
www.asse-plumbing.org/

Upcoming Seminars

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ARIZONA SEMINARS		
August 10-14, 2015	Phoenix, AZ	Backflow Prevention Assembly Tester 40 hr Course and Exam
August 14, 2015	Phoenix, AZ	Cross Connection Control Recertification - 8 hr Course and Exam
September 14-18	Phoenix, AZ	Backflow Prevention Assembly Tester 40 hr Course and Exam

September 18, 2015	Phoenix, AZ	Cross Connection Control Recertification - 8 hr Course and Exam
CALIFORNIA SEMINARS		
Aug. 31 - Sept. 4, 2015	Ontario, CA	Backflow Prevention Assembly Tester 40 hr Course and Exam
September 4, 2015	Ontario, CA	Cross Connection Control Recertification - 8 hr Course and Exam
October 7, 2015	San Diego, CA	2012 UPC Residential and Commercial Inspection

COLORADO SEMINARS		
August 17-21, 2015	Grand Junction, CO	Backflow Prevention Assembly Tester 40 hr course and Exam
August 21, 2015	Grand Junction, CO	Cross Connection Control Recertification - 8 hr Course and Exam
September 3-4, 2015	Denver, CO	Cross Connection Control Recertification - 8 hr Course and Exam
September 21-25, 2015	Denver, CO	Backflow Prevention Assembly Tester 40 hr course and Exam

MASSACHUSETTS SEMINARS

Session 5 and 6 Training now available online

MINNESOTA SEMINARS		
August 10-14, 2015	Elbow Lake, MN	ASSE 5110 Backflow Tester Class 40 hours
August 10-13, 2015	Elbow Lake, MN	Minnesota Rebuilder Certification to ASSE 5110 Tester and ASSE 5130 Repairer Certification
August 10-12, 2015	Elbow Lake, MN	Minnesota Tester to ASSE 5110 Tester Certification
September 14-18, 2015	Anoka, MN	ASSE 5110 Backflow Tester Class 40 hours
September 14-17, 2015	Anoka, MN	Minnesota Rebuilder Certification to ASSE 5110 Tester and ASSE 5130 Repairer Certification
September 14-16, 2015	Anoka, MN	Minnesota Tester to ASSE 5110 Tester Certification
September 21-25, 2015	Grand Rapids, MN	ASSE 5110 Backflow Tester Class 40 hours
September 21-24, 2015	Grand Rapids, MN	Minnesota Rebuilder Certification to ASSE 5110 Tester and ASSE 5130 Repairer Certification
September 21-23, 2015	Grand Rapids, MN	Minnesota Tester to ASSE 5110 Tester Certification

NEW JERSEY SEMINARS		
August 31 - September 4, 2015	Pennsauken, NJ	Backflow Prevention Assembly Tester 40 hr Course and Exam
September 4, 2015	Pennsauken, NJ	Cross Connection Control Recertification - 8 hr Course and Exam
October 19-23, 2015	Pennsauken, NJ	Backflow Prevention Assembly Tester 40 hr Course and Exam

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