Topics this month: November 2017

ENGINEERING STANDARDS UPDATE

Standards are serious business, but this newsletter isn't.

Topics this month:

- IHS Standards Expert has Changed to Engineering Workbench
- Training & Qual
- LANL Standards Issued in October
- ES-EPD Desktop Instruction Revisions
- DOE Technical Standards Action
- National Standards Action
- When Good Conduct of Engineering Isn't Followed

The Standards Homepage: http://engstandards.lanl.gov/

Warning: This issue was written with a <u>theobromine</u> high and a World Series induced hangover. Next month: CoE on tryptophan.

IHS STANDARDS EXPERT HAS CHANGED TO ENGINEERING WORKBENCH

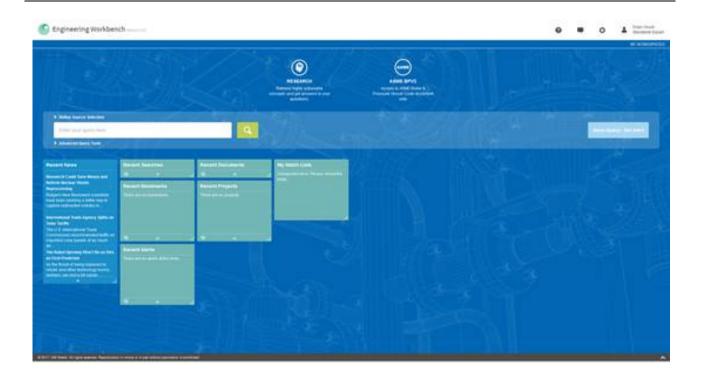
Sometimes enhancements also come with negatives, and this may be an example. Seems there's no more dive in and search anonymously. The new Engineering Workbench has hit and it requires individual accounts, so you'll need to create one (or log in if you already have one; it migrated).

On the plus side, accounts enable Favorites, Watch Lists, and saved searches (previous Favorites and Watch Lists were transferred over to the new system). And there may be other benefits if you have the patience to take the Guided Tour or review the 49-pg Quick User Guide, both online. Fun fact: They carry 193,654 codes and standards of which LANL subscribes to almost 9,000.

For all standards available through the library, at IHS Standards or elsewhere, go to the Library's <u>Standards page</u>.



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TRAINING & QUAL

To register for LANL courses, sign up via <u>UTrain</u>. Enter course number in search field, assign to yourself. Disenroll a similar way if you have to bail. AEs can also register; contact Yolanda Trujillo at 665-5696 or yitrujillo@lanl.gov with Z number.

Swagelok Seminar Thurs, Nov 2 (Non-LANL, though required for installers)

If you missed the free July seminar in Los Alamos, you can wait for the next time here or attend in ABQ at Swagelok Southwest Co., 2732 Vassar Place NE. Cost is \$49 per person with lunch. See July Update for details and contact info.

Electrical Standards Course - Thurs, Nov 16

Four-hour course 17998 covers the electrical engineering standards in Chapter 7 of the LANL Engineering Standards Manual and discusses mandatory requirements and good practices for those involved in electrical design. Strongly suggested for electrical designers, electrical engineers, electrical safety officers, and facility managers. AEs are also encouraged to attend. Taught by Electrical Standards POC Eric Stromberg from 7:30–11:30 am, currently listed for Otowi Building 03-261 - Main Gate Otowi Classroom Rm. F200W.

Firestopping—Plan, Review and Inspection Thurs, Dec 7, 8a-4p (NEW)

UTrain Course 39528 White Rock Training Center – TA-00-1308-118, 8 a.m. to 4 p.m. Web says:

Firestopping has become a hot topic because of the new Firestop Inspector requirements in the 2012/2015 International Building Code (IBC). This training is designed for Plans Examiners, Fire and Building Inspectors, Contractors, Architects and Engineers. We will review the requirements

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Topics this month: November 2017

of sections 714 and 715 of the IBC for joint systems, perimeter containment, through and membrane-penetrations. Discuss the new ASTM firestop inspection standards. This program will also provide code compliant solutions along with helpful hints for plans examiners and inspectors. Training is provided by an external vendor, Fire Containment Training Services (FCTS).

I say:

When and why you sometimes need expensive, red caulk.

ADE Ethics Training for Engineering 2017

Heidi Hahn and Mike Brazile are aiming for a November completion of this 1-hr, online course. It's an annual LANL tradition since 2010 because engineers registered in New Mexico require continuing education in this area. Not sure what that says about our state—progressive or historically bad? Anyway, the readiness of UTrain course 38145 will be statused in the next (December) Update. Web:

"The purpose of this course is to provide you with the skills and knowledge to resolve situations requiring ethical judgment and to get help when you are unsure of the best course of action to take. It is tailored to address ethical situations of interest to Professional Engineers (PEs) and specifically reviews the Rules of Professional Conduct that apply to PEs licensed in the state of New Mexico."

LANL STANDARDS ISSUED IN OCTOBER

None. After the sprint to the finish line with last FY's specs update campaign, some took a short respite to attend to their day jobs, spouses, and personal hygiene. But more specs and ESM changes are in the works in November and beyond.

INTERESTING GLOBAL CONSTRUCTION TRIVIA FROM THE INT'L CODE COUNCIL

Did you know?

In 1945, a <u>B-25 bomber pilot crashed into the Empire State Building</u>. The impact snapped the cable of the building's elevator shaft. By the time the carriage reached the bottom, 1,000 feet of cable had piled up beneath it, acting like a spring, which allowed the lone occupant in the car to escape injured but alive.

ES-EPD DESKTOP INSTRUCTION REVISIONS

Just noticed these new or revised documents. EPD DIs are linked from EPD page, directly <u>here</u>.



07/13/2017

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DI-ES-EPD-001	IBC Permitting Process (pdf) Rev. 1 Att. 1 IBC-Scope Work Exempt from LBO Stamp per Code Rev. 0 Att. 2 LBO Design Plan Review Flowchart Rev. 0 Att. 3 PRID Final Design Phase Rev. 0 FM 01 LBO Design Package Approval Application Rev. 2 (08/21/17) FM 02 Design Package Documentation Checklist Rev. 2 (08/21/17) FM 03 LBO Design Review Checklist Rev. 1 (08/21/17)	08/21/2017

<u>Design & Submittal Review Guide (pdf)</u> Rev. 0 ["Establish the process for submitting design and construction submittal review requests in the Design Review System (DRS)"]

DOE TECHNICAL STANDARDS ACTION

Activity in the past month or so:

DI-ES-EPD-005

DOE-HDBK-5001-2017 <u>Procurement, Use, and Maintenance of Standard Freight Containers for Use in Transportation and Disposal of Radioactive Material and Radioactive Waste</u> Handbook from EM - Office of Environmental Management, Sep 28, 2017

NATIONAL STANDARDS ACTION

Thanks to those that reported their efforts on committees to me after last month's data call.

Of possible interest to others, LANL's IHS online standards service reports:

Document Number: ACI 318

Publication Date: September 01, 2014

Title: Building Code Requirements for Structural Concrete (ACI 318-14) and Commentary

(ACI 318R-14) - Incorporates Errata: August 21, 2017

Type of Change: Errata/Erratum

Document Number: ASHRAE 55 Publication Date: January 01, 2017

Title: Thermal Environmental Conditions for Human Occupancy - Includes ANSI/ASHRAE

addenda listed in Appendix M Type of Change: Complete Revision

Document Number: NFPA 101



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Publication Date: January 01, 2018

Title: Life Safety Code - Effective Date: 09/06/2017; ALERT: THIS STANDARD HAS BEEN

MODIFIED BY A TIA OR ERRATA Type of Change: Complete Revision

Document Number: NFPA 101 AMD 1 Publication Date: August 17, 2017

Title: Life Safety Code - Effective Date: 09/06/2017

Type of Change: Amendment

Document Number: AASHTO LRFDLTS Publication Date: January 01, 2015

Title: Interim Revisions to the LRFD Specifications for Structural Supports for Highway Signs,

Luminaires, and Traffic Signals - First Edition; 2017 Interim Revision

Type of Change: Complete Revision

Document Number: NFPA 1221 AMD Publication Date: October 19, 2017

Title: Standard for the Installation, Maintenance, and Use of Emergency Services

Communications Systems
Type of Change: Amendment

Document Number: NFPA 70E AMD 2

Document Specified on List: NFPA 70E AMD 1

Publication Date: August 17, 2017

Title: Standard for Electrical Safety in the Workplace - Effective Date: 9/6/2017

Type of Change: Amendment

Document Number: NFPA 70E AMD 2 Publication Date: August 17, 2017

Title: Standard for Electrical Safety in the Workplace - Effective Date: 9/6/2017

Type of Change: Amendment

WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED... ... engineers start repeating bad jokes.

Two engineers were standing at the base of a flagpole, looking at its top. A woman walked by and asked what they were doing.

"We're supposed to find the height of this flagpole," said one, "but we don't have a ladder."

The woman took a wrench from her purse, loosened a couple of bolts, and laid the pole down on the ground. Then she took a tape measure from her pocketbook, took a measurement, and announced, "Twenty one feet, six inches," and walked away.



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One engineer shook his head and laughed, "A lot of good that does us. We ask for the height and she gives us the length!"

Both were later fired from their engineering jobs and are currently serving in the United States Congress.



LAST MONTH'S UPDATE TOPICS

Miss an issue? The archive is at "Monthly Update" on the Standards homepage. Last month's topics:

- Report National Standards Work
- ESM Chapter 20 Systems Engineering NEW!!!
- Engineering Processes Changes
- Training & Qual
- LANL Standards Issued in September
- Standards Program FY17 Work Summary
- DOE Technical Standards Action
- National Standards Action
- When Good Conduct of Engineering Isn't Followed

To request a change to this newsletter's distribution, please contact me. The views expressed in this email are not necessarily those of my employer.

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