

ENGINEERING STANDARDS UPDATE

[Standards are serious business](#), but this newsletter isn't.

Topics this month:

- **PE Ethics CEU Credits Aug 18**
- **Training**
- **LANL Standards Issued in July**
- **Engineering Processes Changes**
- **National Standards Changes**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

PE ETHICS CEU CREDITS AUG 18

Along with looking like a good event, the "[Moving Forward with a Multigenerational Workforce](#)" talk announcement says all attendees will get credit for LANL's biennial ethics training requirement (in lieu of taking LANL's generic UTrain online course).

It also means professional engineers registered in NM (who coincidentally need two hours of ethics biennially per [Feb Update](#)) could get an hour or two this way instead of taking the LANL ADE online engineering ethics course discussed herein every Nov-Dec.

I predict a packed house so arrive early if going.

FRIDAY NIGHTS

ARCHITEXTS



This could be our new hires on a Thursday night, but let's hope they're not this disgruntled...

TRAINING

Please, for all of these, remember to dis-enroll if you can't make it after enrolling.

For LANL courses, to register: Sign up via [UTrain](#) (AEs without cryptocard via Yolanda Trujillo at 665-5696 or ytrujillo@lanl.gov with Z number).

- On [UTrain](#) click on the "catalog" tab and select "advanced catalog search"
- Enter course number as the "ID", then "search"
- Add-to-do-list
- Go to your to-do-list and click on 'register'

NFPA 101 Life Safety Code Essentials, Aug 23-25

Course 31667, WRTC. Sign up soon so enough workbooks get ordered.

CGD Courses Wed, August 24

For those that do work for nuclear facilities, the Commercial Grade Dedication Overview course (30726) runs from 8 to 10 a.m. is for those who require just an overview of the new CGD Process – plus those who will perform as CGD Preparers. The CGD Preparers' course (30727) is for those who will perform that role and runs from 10:00 a.m. to 5:00 p.m. Thus, CGD Preparers must attend both the CGD Overview and CGD Preparers courses to serve as CGD Preparers. Primary Instructor: Marshall Bullock, Lead Procurement Engineer. Happening at TA-00 Building 0199 Canyon School Complex Classroom 172.

Standards Intro Course Thursday, Sept 8

This is the rescheduled date for the 24140 course I couldn't teach in June, and those folks were booked into this one so there's no space and a long waitlist. Runs 8 a.m.– 4 p.m. in Canyon Complex (TA-00-199) Rm 172. **PLEASE CANCEL IF YOU CAN'T MAKE IT.**

IBC 2009 to 2015 Transition Training Sept 9

For those that missed this course here last summer and need it, you can pay to go to an AIA-hosted course in ABQ on September 9 (info [here](#), early bird by Aug 18). This course reviews the changes from the 2009 edition to the 2015 International Building Code. The background behind many of the changes will be discussed to provide the participant with an understanding of the intent of the changes and how to apply it to their everyday work. Subjects covered will include the code change process, mixed occupancies, atriums, accessible means of egress and many more.

Pressure Safety Officer Training Oct (dates TBD)

Two course offerings:

PSO Overview – Pressure safety concepts needed to perform the roles and responsibilities of being a PSO in an interim capacity.

ASME B31.3 – Will familiarize participants with ASME B31.3 Process Piping code as related to the duties of a PSO.

If interested, contact ESM Ch 17 POC [Ari \(Ben\) Swartz](#).

LANL STANDARDS ISSUED IN JULY

Master Specifications STD-342-200	
27 1000R6 Structured Cabling	Revised 3.4 on cable tray location and drops, 3.7.B to address a miscalculation in anchoring separation; incorporated 3.8.E into 3.8.C to clarify the use of two-hole lugs; changed 3.8.E to allow one-hole lugs for #6 or smaller. Thanks to Ben Posegate and POC Pete Lowe.

Drawings & Details STD-342-400	
Architectural Example Drawings for Floor Plans of Record, r1 of A-1000, A-1001, A-1010, A-1011	Approval date 6/27/16.
Std Details for Exterior Wayfinding (ST-G2040-4 Sheets 1-8 r2 only)	Approval date 6/27/16.

ENGINEERING PROCESSES CHANGES

For AP-341-517 r1, Design Change Form, VAR-10027, Clarification of Responsibility when DCF Design is NOT by Facility Engineering, was issued. It added the following note to Section 3.4, third paragraph: "Note: RE during modification design may not be the same person as RE during the modification implementation and closeout." The VAR was posted under the AP on the SharePoint site.

NATIONAL STANDARDS CHANGES

A selection of updates.

NFPA 780-2017 on lightning protection was issued. It doesn't cover getting off peaks and golf courses in a storm, but that's a good idea. Get it here: IHS Standards Expert [platform](#).

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DOE TECHNICAL STANDARDS ACTIONS

DOE Tech [Stds](#) activity in the past month:

[DOE-STD-1112-2016](#) Laboratory Accreditation Program for Radiobioassay. This technical standard describes the U.S. Department of Energy Laboratory Accreditation Program (DOELAP) for Radiobioassay, for use by the U.S. Department of Energy (DOE) and DOE Contractor radiobioassay programs.

WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED

To borrow from James Carville, it's the foundation, stupid.

The 58-story Millennium Tower luxury condo tower in San Francisco has sunk 16 inches since it was built seven years ago and is leaning 2 inches, leading one resident to call it the "leaning tower of San Francisco." The owners of the tower blame it on nearby excavation, but officials with the transit authority say the pilings don't reach to the bedrock. Full story and 3-minute video [here](#).



Photo: Michael Noble Jr., The Chronicle

LAST MONTH'S UPDATE TOPICS

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

- **New Software Chapter 21!!!**
- **Variance Process Changed**
- **Self-Perform Specs**
- **IHS Standards -- IES RP-1; Older ASME**
- **Engineering Fundamentals Self-Study Guides**
- **Training**
- **LANL Standards Issued in June**
- **National Standards Changes**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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