

ENGINEERING STANDARDS UPDATE

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

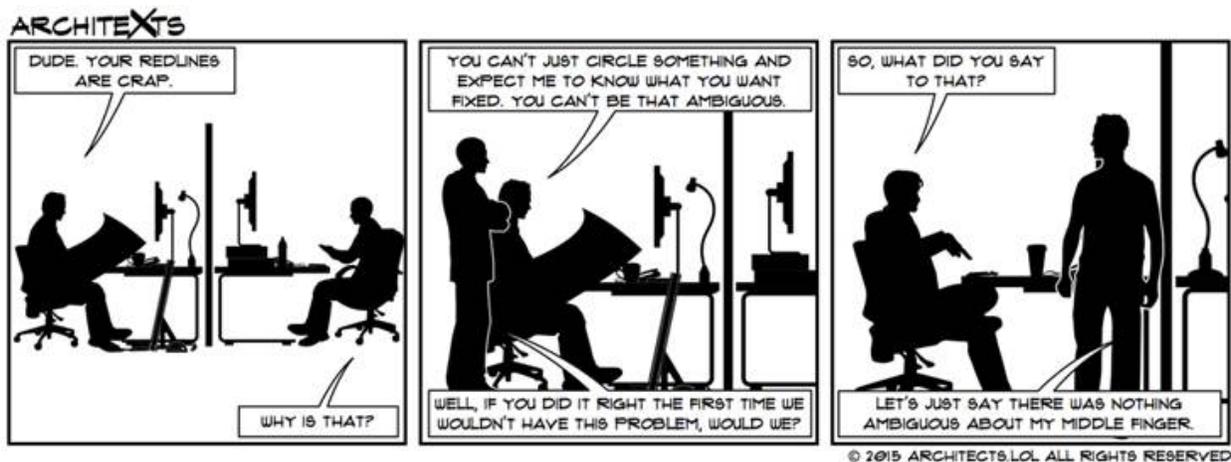
Topics this month:

- IBC Reviewer List Updated
- Engineers Week – Feb 24 Speaker/Poster Event
- CGD Courses now Feb 24
- NFPA 72 Fire Alarm and Signaling Course Mar 22-24
- PE Ethics PDH Changes!
- LANL Standards Issued in January
- Engineering Process Changes
- DOE Technical Standards Actions
- When Good Conduct of Engineering Isn't Followed

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

IBC REVIEWER LIST UPDATED

Per Joni Weamer, the memo authorizing certain SMEs to perform reviews for building code compliance was updated last week. It's posted on the ES-EPD and ESM Ch 16 webpages, directly [here](#).



ENGINEERS WEEK – FEB 24 SPEAKER/POSTER EVENT



The Associate Director for Engineering Sciences (ADE) invites LANL employees and students to join in celebrating Engineers Week 2016. This year's Engineers Week theme, *Engineers Make a World of Difference*, promotes the curiosity and inventiveness of engineers, engineering students and technicians and the diversity of the roles they play: designer, maker, inventor, developer, problem solver, and creator. All of these play a part in making the world a better place. Plan to stop by and learn more about the field of engineering at LANL, our engineering resources, capabilities, and the wide spectrum of R&D Engineering activities conducted in support of the Laboratory, the DOE complex, and the nation.

Activities in celebration of Engineers Week will be held at the J. Robert Oppenheimer Study Center, Santa Clara Gallery and Jemez/Cochiti Conference Rooms on Wednesday, February 24, from 1:00 pm – 4:00 pm. The keynote address will be given by Albert P. Pisano, Dean for the Jacobs School of Engineering, University of California, San Diego, at 1:00 pm. The topic of the talk is entitled *UCSD Engineering Overview and Collaborations*. The talk will be followed by an Engineering Showcase featuring posters from recent R&D engineering projects from 2:00 pm until 4:00 pm. Light refreshments will be served during the poster session.

CGD COURSES NOW FEB 24

Per Mike Brazile for Marshall Bullock, the Commercial Grade Dedication Overview and CGD Preparers' Courses originally scheduled for January 28 have been rescheduled for Wednesday, February 24 from 8 a.m. to 5 p.m. at TA-00, Building 1308, Room 117 (White Rock Training Center-WRTC).

The CGD Overview course (30726) runs from 8 to 11 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 11:00 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.

NFPA 72 FIRE ALARM AND SIGNALING COURSE MAR 22-24

Fire Protection Division is planning to offer courses on various NFPA standards on a quarterly basis for their staff and other SMEs, with the first on NFPA 72 Fire Alarm and Signaling. It is March 22-24 at Canyon Complex (TA-00, Bldg 0199, Rm 165). It will cover initiating devices, notification appliances, control units and power supplies, circuits and pathways, emergency

control functions interfaces, off-premises signaling, documentation and planning and approval, plan review activity, and accepting/commissioning. Course 31665. AEs may enroll on a space-available basis starting March 1.

Future courses may include NFPA 13 Automatic Sprinkler Systems (June Timeframe) and NFPA 101 Life Safety Code Essentials (September Timeframe).

PE ETHICS PDH CHANGES!

Professional engineers registered in NM should be pleased to learn that the four-hour ethics requirement (for the biennium) has apparently been reduced to two. That means taking the LANL ADE online course discussed herein every December will satisfy the need. That change and the rest of the continuing ed requirements are discussed in the updated Renewal Guide [here](#).

This was decided by the Board back in the Spring of 2015 and effective July 1 along with a few other seemingly small changes to NMAC 16.39 on Licensure for Professional Engineers and Professional Surveyors. One might have thought the board would notify PEs of these changes directly and maybe even highlight them on the website, but seems that's not their way.

Having vented, it might be a good time to reiterate the disclaimer at the bottom of this newsletter: ["The views expressed in this email are not necessarily those of my employer."](#)

LANL STANDARDS ISSUED IN JANUARY

ESM STD-342-100	
Ch. 17, Section ASME, Allowed Unlisted Components Listing updated	Thanks to POC A. Ben Swartz
Ch. 17, Section NASME, Reputable Manufacturers Listing updated	ditto

ENGINEERING PROCESSES CHANGES

A Variance was posted to the Engineering Processes APs [SharePoint site](#). Associated form updates are expected this week.

VAR-16-012, Incorporation of SBP-15-351 into the Conduct of Engineering documents	Affects:	Issued: 12/22/15
	AP-341-504, Temporary Modification Control	
	AP-341-507, SSC Control Software Change	
	AP-341-517, Design Change Form	
	AP-341-627, Design Coordination	

DOE TECHNICAL STANDARDS ACTIONS

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

[DOE-STD-3011-2016](#) Guidance for Preparation of documented Safety Analysis for interim operations at DOE nuclear Facilities
Superseding DOE-STD-3011-2002 (January 2002). Describes a method for preparing a Documented Safety Analysis (DSA) for interim operations that is acceptable to DOE for hazard category (HC) 1, 2, or 3 nuclear facilities as set forth in Table 2 of Appendix A to Title 10 of the Code of Federal Regulations (C.F.R.) Part 830, Nuclear Safety Management, Subpart B, Safety Basis Requirements.

WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED



I know what you're thinking: this is from some second- or third-world country and couldn't happen here. Well, probably true on the first thought but not the second. According to Clay Davis who sent it, bad things happen in the U.S., too – and at a nuke plant, no less. He wrote 'someone ran a 8" wide flange beam from a modified pipe support at Farley Unit 1 through a ladder cage running beside A Steam Generator. If you didn't know it was there you ran into it while climbing full tilt at about the 48' level. I did during the 2000 SGR and it nearly knocked me cold.' So now we know (also may explain Clay a bit :-)

LAST MONTH'S UPDATE TOPICS

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

- IBC Program Graded Approach Revised Dec 22
- Commissioning POC Change
- Electrical Standards Course Feb 3
- NFPA 72 Fire Alarm and Signaling Course
- Call for R&D Engineering Abstracts by Jan 21
- LANL Standards Issued in December
- Engineering Process Changes
- CGD Tags and Qualified Preparers
- DOE Technical Standards Actions
- 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.

Tobin Oruch, Engineering Standards Mgr
Los Alamos Nat'l Lab, Conduct of Eng Program Office
TA-3-216 M/S F696 ph (505) 665-8475
oruch@lanl.gov <http://engstandards.lanl.gov/>
Please consider the environment before printing this or any email