

Engineering Standards Update Topics this month: March 2016

ENGINEERING STANDARDS UPDATE

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

Topics this month:

- New Software POC Seeks SMEs
- Standards Intro Course Apr 20
- NFPA 72 Fire Alarm and Signaling Course Mar 22-24
- LANL Standards Issued in February
- National Standards Changes
- DOE Technical Standards Actions
- When Good Conduct of Engineering Isn't Followed

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

NEW SOFTWARE POC SEEKS SMES

Los Alamos is so nerdy this could be a Craigslist personal.

Paula Diepolder in QPA is helping us develop a new Chapter 21 on software quality for the Engineering Standards Manual. It will address safety important SSC (controls equipment) and design/analysis/admin software and will rock your world.

A technical committee of SMEs is being created now to perform the final review starting next week, so if you are knowledgeable, please volunteer to me this week (I'm the POC but in near-total learning mode, so I'm adding SQA to my resume's Core Incompetencies section).

Savvy users realize there's no Chapter 20 now either and may wonder about that. Chapter 20 is reserved for another new chapter on systems engineering, which is the discipline of defining/managing technical requirements and helping ensure that projects deliver on them. Gurinder drafted this chapter, though I'll be the POC for it, too. Rest easy knowing that I understand as much about SE as I do SQA. And am seeking SMEs to help review it, too.



STANDARDS INTRO COURSE APR 20

I only teach this a couple of times a year; the next is Wed, April 20, from 8 a.m.–4 p.m. in Canyon Complex (TA-00-199) Rm 172. It provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Many LANL engineers and designers are required to take it, and outside AEs are encouraged to attend.

To register: Sign up via <u>UTrain</u> (AEs without crypocard via Yolanda Trujillo at 665-5696 or <u>yitrujillo@lanl.gov</u> with Z number)

- On UTrain click on the "catalog" tab and select "advanced catalog search"
- Enter Item Number 24140 as the "ID", then "search"
- Add-to-do-list
- Go to your to-do-list and click on 'register'



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.

There's space for a dozen more, so AEs and others may now enroll. Also, anyone who's late-enrolling (today onward) should email <u>tammy@lanl.gov</u> who's ordering workbooks.

Future courses will include NFPA 13, Automatic Sprinkler Systems (31666, tentatively June 21-23) and NFPA 101 Life Safety Code Essentials (31667, tentatively Aug 23-25).



LANL STANDARDS ISSUED IN FEBRUARY

ESM <u>STD-342-100</u>	
Ch. 14, 2015 IECC errata - 1st printing	Updated with latest
Ch. 16, 2015 IEBC errata - 1st, 2nd, 3rd printing	Updated with latest
Ch. 16, Listing of Approved IBC Testing Agencies and Fabricators	Updated 2/29/16
Ch. 17, Sections ASME & ADMIN-2: New Unlisted Components Approval Process and Forms	Added per VAR-16-021, thanks to POC Ben Swartz.
Ch. 17, ADMIN-4-1-r0.1, Pressure Vessel Inspection and Test Procedure	Fixed table of content errors.
CIR-16-002, PI Concrete Anchors, Seismically Exempt	Posted with Ch. 5 Sect. II; Ch. 16, IBC-GEN; and 05 0520. Thanks to POC Glen Pappas.

Master Specifications STD-342-200		
11 5311.12 Rev. 3 Glovebox Installation	 Thanks to Larry Lamsa and Ramona Biggs for this rev. Glovebox Certification Checklist Eliminated requirements outside the scope of installation Changed requirement of having unused penetrations plugged on both sides to having unused penetrations plugged preferably on both sides Many other changes throughout 	

NATIONAL STANDARDS CHANGES

ACI 318-14 Building Code Requirements for Structural Concrete and Commentary: <u>IHS</u> file with errata incorporated was posted February 9, so best users download and not use older, flawed download.

DOE TECHNICAL STANDARDS ACTIONS

DOE Tech Stds activity in the past month:

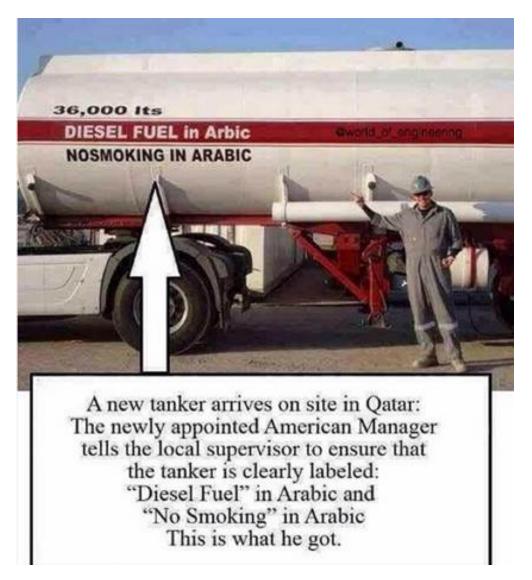
DOE-STD-1217-2016, Safeguards and Security Survey and Self-Assessment Planning, Conduct, and Reporting. Provides a standard methodology for adapting the Department's requirements for Safeguards and Security (S&S) surveys and selfassessments to organization-specific needs in a coherent, consistent, and repeatable fashion. It describes a consistent and acceptable approach to planning, conducting, and reporting the results for S&S surveys and self-assessments.



WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED

This one's just as much ConOps (e.g., shift orders) as CoE.

Back in the '80's at another site, we had notepads large and small with the slogan "Don't say it, write it." (also cheap black ballpoints that said "SKILCRAFT-U.S. GOVERNMENT." And pocket protectors were given as swag by vendors. Aah, the old days.)





LAST MONTH'S UPDATE TOPICS

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

- 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

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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