

ENGINEERING STANDARDS UPDATE

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

This is the monthly newsletter of the LANL Conduct of Engineering Office's Engineering Standards Program. The Standards define the minimum technical requirements for the design, fabrication, construction, commissioning, repair, and replacement of both new and existing equipment and facilities, including both maintenance and modification, for programmatic and facility work at LANL [[PD340](#)].

Topics this month:

- **Flip Out When You Rock On**
- **RLUOB Achieves LEED Gold**
- **CoE Training Includes Standards Course this Month**
- **IHS Online National Standards Interface Changed**
- **Engineering & Surveying Act Changes**
- **LANL Standards Issued in June**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

FLIP OUT WHEN YOU ROCK ON

That is, absolutely no more anchoring of overhead flipper-door cabinets to just sheetrock. A recent calculation showed drywall (gypsum board) can't take the possible seismic load, confirming the ESM [Architectural](#) Chapter prohibition of recent years.

The good news is that a new variance allows and details the procedure for anchoring these units (or plain shelves of same capacity) to structural substrates like studs or solid concrete, and the VAR has been posted with that chapter. Now that's something righteous concert-goers can raise a lighter (glowstick? iPhone?) about, man.

RLUOB ACHIEVES LEED GOLD

The Radiological Laboratory Utility Office Building was built by the Chemistry and Metallurgy Research Replacement Project. The 200,000 square foot building "contains laboratories for analytical chemistry of special nuclear material, along with offices, training and emergency operations." People are beginning to use the building.

LEED is Leadership in Energy and Environmental Design, and Gold is the second-highest sustainable design certification level awarded by the U.S. Green Building Council. RLUOB is LANL's first LEED-certified building of any level and, per the LA Monitor, the only radiological facility within DOE to have attained LEED Gold.

As the VP might wish he'd said to the President as he was signing the recently upheld healthcare bill a couple of years back, "This is a major-big deal!" Congrats to everyone involved in this achievement.

COE TRAINING INCLUDES STANDARDS COURSE THIS MONTH

My standards course is next Wednesday; course feedback is generally very positive, so please enroll/attend. Most people that remain awake during class don't have to call me as often, and that's good for my sleep.

If UTrain enrollment doesn't work, contact Yolanda J. Trujillo, ytrujillo@lanl.gov, 665-5696 if you wish to enroll, cancel, etc. She sends email confirmations prior to courses.

June-August 2012 Cycle Taught in MSL Auditorium (TA-3 Bldg 1698, directly across from CMR)

DATE	ITEM	COURSE TITLE	INSTRUCTOR	TIME
7.11.12	24140	Engineering Standards Introduction	Tobin Oruch	8 am - 5 pm
8.01.12	43665	Support to Operations and Maintenance	Gurinder Grewal	8 am - 5 pm
8.08.12	43667	Maintenance Processes	Kyle Carr	8 am - noon
8.08.12	40979	Work Control Processes	Kyle Carr	1 - 5 pm
8.15.12	43663	Technical Baseline (resched.from 5/23)	Gurinder Grewal	8 am - 5 pm

IHS ONLINE NATIONAL STANDARDS INTERFACE CHANGED

Previewed last month, IHS updated their "Standards Expert" search interface to Version 5.0 in late June. If you're not a frequent user you might not notice, except for the new splash screen.

LANL onsite employees access IHS through the Research Library via their page or the Standards homepage, or directly [here](#). Find your doc, download to your computer, and logout right away. Thanks.

ENGINEERING & SURVEYING ACT CHANGES

In March, the Gov signed a number of amendments to the Board of Licensure for Professional Engineers and Professional Surveyors Practice Act, and they took effect July 1.

My sense is these are pretty minor, and PEs were/will be notified of the changes by mail.

And what about corollary NM Admin Code updates? Mañana! They say, "Within the next several months the Board will be working on updating the NM Board of Licensure for Professional Engineers and Professional Surveyors Administrative Code to reflect the changes from the Practice Act." Meantime, changed articles listed [here](#), changed words highlighted [here](#).

LANL STANDARDS ISSUED IN JUNE

Engineering Standards Manual STD-342-100	
VAR-2012-092 Labwide Anchoring Overhead Storage Flipper Units, allowing cabinets fixed to solid substrates, posted under Chapter 4 Section B-C GEN	
Master Specifications STD-342-200	
07 5316 R2 Chlorosulfonate - Polyethylene Roofing	General re-write and re-formatting. Added insulation. Updated manufacturers. Limited to repair and limited replacement. Ref PFITS 2011-6109.
22 0813 R4 Testing Piping Systems	Clarification of testing requirements in section 3.2.
33 5100 R6 Natural Gas Distribution	Deleted 1.5.A.1.d, clarified 1.5.A.4

DOE TECHNICAL STANDARDS ACTIONS

New or revised DOE [Tech Stds](#) this past month: [DOE-STD-1212-2012](#), Explosives Safety

WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED

When I first saw this I didn't know if it was wrong or just confusing. So I consulted with the expert, Fire Marshal Jim Streit. His thoughts: "It's a bit excessive. There are requirements for floor-level exit signs in some occupancies...but it does appear to make it an overkill opportunity. Maybe if they were green instead of red would be more pleasing..."



LAST MONTH'S UPDATE TOPICS

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

- **Engineering Management Changes**
- **Electrical POC Change**
- **IHS Online Standards Interface Changing**
- **CoE Training (Including Standards Course) Changes**
- **PE-taking EE Seeks Others**
- **Safety Instrumented Systems Course June 20-21**
- **LANL Standards Issued in May**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

To request a change to this newsletter's distribution, please contact me.

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