

ENGINEERING STANDARDS UPDATE
Trying to Make Standards Exciting Since 2001

This is the monthly newsletter of the LANL Engineering Standards Program. The Standards are mandatory documents that define the minimum design criteria, fabrication, and installation practices for the alteration, repair, and construction of LANL facilities and the programmatic and process equipment within them. [\[P341\]](#)

Topics this month:

- **Standards for Prima Donnas this Thursday**
- **CGD for Prima Donnas**
- **Men in Black**
- **IBC for All**
- **LANL Standards Issued in February**
- **What Happens When Conduct of Engineering Isn't Followed**
- **DOE Technical Standards Actions**

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

STANDARDS FOR PRIMA DONNAS THIS THURSDAY

A few “busy” (procrastinating) cognizant system engineers didn’t get to one of the many Standards Intro sessions I’ve taught in the past year, so I’m teaching a small class this Thurs 3/4 from 8am - noon at the Canyon Complex Rm 169. The CSEs are expected to bring food, and mere mortals are also welcome. I’m only joking -- trying to help toughen the CSEs for their demanding and lucrative jobs (if you’re offended, pretend it’s standup comedy).

Course 24140 provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Enroll (or disenroll) [here](#), or contact Yolanda Trujillo at 665-5696 or yjtrujillo@lanl.gov.

Hurry, only 12 spaces left!

CGD FOR PRIMA DONNAS

The nuclear facility engineering managers and others that conspicuously missed last week’s excellent, all-day, and capacity crowd course on Commercial Grade Dedication will be able to view the presentation online once the video has been formatted to fit the screen, run in the time allotted, and edited for content.

The course had seven modules so it will be posted as such and take 4-5 hours, a time-saver. Once it’s online you can view and even get EDS credit for Course 52942, Commercial Graded Dedication Overview. I’ll provide the link next month.

MEN IN BLACK

Last month I wrote that Paul Hudson, Group Leader for CM-Construction Engineering/Inspection, is leaving LANL (last day is Thursday; he's going to WTP at Hanford).

His replacement, Bill Tate, is now here. Like Paul, he also likes to wear black -- it must be the sign of a good field engineer who gets in the trenches. And like Paul, Bill will be a Chief Inspector for LANL's IBC Program (ESM Ch 16) and the Professional Engineer overseeing in-house IBC-related testing capabilities like soils and concrete. wjtate@lanl.gov, 6-0580 (Paul's old number).

IBC FOR ALL

Does this national have its priorities right? Googling "IBC" yields root beer above the International Building Code.

The Int'l Code Council, which puts out the IBC and others, has expressed sadness and concern regarding the Haiti magnitude 7 quake which left 200,000+ dead, 300k injured, and 1M homeless. In one letter, it noted that the 1994 Northridge earthquake was of similar magnitude and in a well-populated area and the loss of life was 60 people, all due to good codes and enforcement of same (even 60 is too many, the Code has been much improved since).

This past weekend's huge Chilean quake, an 8.8, had 500 times the energy of the Haiti quake; the death toll is at 700 now and also indicative of attention to code.

Finally, on the IBC:

The Conduct of Engineering Office had a big presence at the Engineering Societies Fair in mid-February with a demo of the forthcoming SharePoint paperwork automation tool and several posters. We also raffled off an IBC book; the winner was George Martinez, but we thank everyone who entered (or just stopped by to talk or take cookies). If you, too, need access to the IBC you can borrow George's new doorstep – or access it online through the Library's IHS subscription (to get the 2006 edition, remember to uncheck "Most Recent Revision" when you search "IBC"). I suggest you download the pdf so you have it once we switch to the 2009 a few months from now.

LANL STANDARDS ISSUED IN FEBRUARY

Engineering Standards Manual http://engstandards.lanl.gov/ESM_Chapters.shtml

Chapter 13 Welding, Joining, & NDE

GWS 1-03 Att. 7 Rev. 3, Welding Checklist

Updated to identify responsibilities for filling each section

LANL Master Specifications <http://engstandards.lanl.gov/specs.shtml>

07 4113 R3 Metal Roof Panels	General re-write and re-formatting
26 5100 R3 Interior Lighting	Added SERVICE CONDITIONS article. Updated codes, standards, and specification section references. Added requirement for enclosed luminaires for pulse-start metal-halide lamps. Added requirement that luminaires have wet or damp location labels as required by installation location. Added specifications for T5 and T5HO fluorescent lamps and ballasts. Added more detailed description of safety wires for luminaires in suspended ceilings. Moved "luminaire maintenance labels" from Part 2 to Part 3. Moved replacement of lamps used during construction to FIELD QUALITY CONTROL article

DOE TECHNICAL STANDARDS ACTIONS

New or Revised DOE [Tech Stds](#) this past month:

DOE-STD-1176-2010, Chemical Processing Qualification Standard [pdf](#).

WHAT HAPPENS WHEN CONDUCT OF ENGINEERING ISN'T FOLLOWED



LAST MONTH'S UPDATE TOPICS

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

- **Engineering Societies Fair Feb. 17**
- **Commercial Grade Dedication Course Feb. 23**
- **Hudson Leaving**
- **New CoE Variance Form**
- **LANL Standards Issued in January**
- **DOE Technical Standards Actions**

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

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