

**ENGINEERING STANDARDS UPDATE**  
Trying to Make Standards Exciting Since 2001

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:**

- **IHS Standards – Get ‘Em and Get the Heck Out**
- **LANL Standards Popularity**
- **When Conduct of Spam Isn't Followed**
- **Eng Processes Changes**
- **Education out the Wazoo**
- **CoE Quote of the Month**
- **LANL Standards Issued in April**
- **When Conduct of Engineering Isn't Followed**
- **DOE Technical Standards Actions**

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

**IHS STANDARDS – GET ‘EM AND GET THE HECK OUT**

Use of the Research Library's IHS online national standards [service](#) is ever-rising, and that's great – but so are its costs. This forces LANL to have a single-concurrent-user-per-society limit. As such, users are asked to help keep that one seat free as follows:

1. Rather than reading online, save the pdf document to your drive – or, if you need a hardcopy anyway, print part or all of it
2. Then immediately hit the “Log Out” button in the upper right corner of the search page

There's a boot-off after 10 minutes of hogging the seat without activity, but the above is way better. Thanks.

**LANL STANDARDS POPULARITY**

Speaking of popular websites, we've been told that the LANL Engineering Standards wepages, which are on the publically available extranet, are about the most popular of all public LANL content. This is quite amazing, really. It reconfirms that real-world folks use such standards, shows that we have valuable material, and helps explain our increasingly frequent external inquiries. I feel like a proud parent.

### **WHEN CONDUCT OF SPAM ISN'T FOLLOWED**

The downside of web popularity is that LANL spam filters have to work a little harder to protect the contacts we have listed; here's the latest email that slipped through, so poorly executed it would never entice anyone. A Nigerian funds transfer maybe...

**To:** [stdsweb@lanl.gov](mailto:stdsweb@lanl.gov)  
**Subject:** HELLO

Hello, please i am sorry to disturb you OK; my names are Jennifer.i am a singleand young girl but age doesn't matterplease today i saw your profile and i like it, please i will like you to contactme directly in my EMAIL BOX ADDRESS [deleted] please i havesomething very important that i will like to tell you, i will also give you myphotos and tell you more about me OK, hoping to hear from you soonest, also sendme a picture (s) of you in my EMAIL BOX on [deleted] you's inlove Jennifer

### **ENG PROCESSES CHANGES**

The following Administrative Procedures were approved. For a listing of all Administrative Procedures, see the internal CoE [Engineering Processes](#) page. And since APs are part of Engineering Processes, not Engineering Standards, please contact Gurinder Grewal at [ggrewal@lanl.gov](mailto:ggrewal@lanl.gov) or 7-3667 with questions.

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|----------------|--|
| AP-341-503, R1 | Engineered Equivalent Determination  |
| AP-341-607, R0 | Determining Critical Characteristics for Design of Safety Related Items  |
| AP-341-801, R1 | Post Modification / Post Maintenance Testing - Put on hold until comments are resolved. Rev. 0 is the current issue. |

### **EDUCATION OUT THE WAZOO**

Don't miss these opportunities:

#### **Engineering Standards Intro May 11**

Rescheduled from April due to a CoE family crisis, Course 24140 will now be taught Wed, 5/11, from 8-5 at the MSL auditorium. Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Taught by yours truly. Previous enrollees were re-enrolled, and folks can enroll or disenroll online [here](#), or contact Yolanda Trujillo at 665-5696 or [ytrujillo@lanl.gov](mailto:ytrujillo@lanl.gov)

#### **Seismic Rehabilitation of Existing Buildings Talk in May**

Eric MacFarlane, SE, PE, ETC in Design Engineering will be presenting on seismic rehabilitation of existing buildings per ASCE 41-06 to local structural engineers. The presentation covers what is required for a rehabilitation, a discussion on nonlinear modeling, and some retrofit solutions. This is the same presentation he gave at the SEANM February meeting in Albuquerque (presentation at SEANM [website](#)). Will likely occur over lunch downtown. If interested, contact Eric, 665-3284, [emac@lanl.gov](mailto:emac@lanl.gov), this week.

**Victaulic "Vortex" Hybrid Fire Suppression Systems, 5/24**

Vendor talk on nitrogen blanketing system without room integrity that can be installed using current FM-approved systems up to 128,000 cu ft. with potentially lower operating and downtime costs. May 24th, 11 am-12:30 pm (subject to change), lunch may be provided, at the White Rock firestation. To RSVP contact Ralph Clayton, 606-1796, [rclayton@lanl.gov](mailto:rclayton@lanl.gov), this week.

**Core Engineering Overview, 5/25**

Course 43658 provides an overview of the CoE program including the Formality of Operations: Conduct of Maintenance, Quality Assurance, Safety Basis, Conduct of Operations, and Conduct of Engineering. The target audience is personnel in engineering organizations, organizations that interface with engineering, managers who supervise engineering work, and employees who want an overview of Formality of Operations. The course is a pre-requisite for follow-on Conduct of Engineering position-specific training. 8:30 am ~ 4:30 pm, MSL Auditorium (TA-3-1698), taught by Gurinder Grewal. Enroll or disenroll online [here](#) or contact Yolanda Trujillo at 665-5696 or [ytrujillo@lanl.gov](mailto:ytrujillo@lanl.gov)

**Fire Penetrations to Meet the IBC, date TBD**

John Harding, Sandia Labs' Building Official, has offered to make a 60-90-minute presentation on the firestopping requirements of IBC 2009 Chapter 7 Section 713 Penetrations as they relate to through, membrane, and joint penetrations and associated UL nomenclature and their application. This would be useful to architectural & fire designers, reviewers, and inspectors. Contact me (665-8475, [oruch@lanl.gov](mailto:oruch@lanl.gov)) this week, to express interest if you have not already.

**COE QUOTE OF THE MONTH**

"The maximum potential for influencing project outcome occurs early in the conceptual and definition phases of the project. Autopsies of most failed projects indicate that the disasters were well planned to happen from the start."

- A. Laufer

**LANL STANDARDS ISSUED IN APRIL**

[LANL Engineering Standards Manual \(STD-342-100\)](#)

Chapter 13, Welding, Joining, & NDE, Vol. 3, Welding Specs:

[1000-D1.3.1-1 Galv](#)

[1000-D1.3.2-1 Galv](#)

**DOE TECHNICAL STANDARDS ACTIONS**

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

[DOE-STD-1172-2011](#), Safety Software Quality Assurance Functional Area Qualification Standard [for Feds]

## **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:

- **Standards Intro Apr 27**
- **Winning -- IHS Online Codes and Standards Improvements**
- **Knovel Approach to Engineering**
- **Eng Processes Changes**
- **Hey, Stud**
- **CM and 1189 Courses in Vegas**
- **CoE Quote of the Month**
- **LANL Standards Issued in March**
- **What Happens When Conduct of Engineering Isn't Followed**
- **DOE Technical Standards Actions**

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

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