

## 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:

- **It's All in the Wrist**
- **How to Access the IBC Online**
- **IHS Training Tues, April 10**
- **Temporary Trailer Anchorage Standard Details**
- **LANL Building Official Approval Listing Update**
- **Lyle Leaving**
- **Safety Instrumented Systems Course**
- **Engineering Processes Changes**
- **LANL Standards Issued in March**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

### IT'S ALL IN THE WRIST

Thanks to those that read down to the x-ray in last month's Update, and even replied with well-wishes on my bike accident and new skeletal hardware. My wrist is much better now, though won't allow me the lead in "[Tommy](#)" or let me bench 315 anytime soon (never could anyway). Still, some find scars sexy, and writing about it proved useful: subsequently, I got a sense of how many don't read this email by the inquiries about my bandaging. But am I bitter? Not me. Just means more levity, which seems to improve readership.

### HOW TO ACCESS THE IBC ONLINE

Mentioned a couple of times in 2010 Updates, this is a confounding issue for folks because LANL isn't always using the latest edition of all the building codes (it's based on NM adoption). Our [IHS](#) online standards search criteria defaults to "Most Recent Revision," yielding only the 2012 codes to which we don't subscribe. So uncheck that box when you search for IBC, IEBC, or other adopted codes to view the 2009 I-codes. Soon, this may also be necessary to get the 2009 IAPMO UPC and UMC we use.

### **IHS TRAINING TUES, APRIL 10**

In this same vein, training on the IHS Standards Expert system will be provided by IHS staff with extensive familiarity of the system next Tuesday, 4/10. It's to be in the MSL Auditorium, 9:30 – 10:30 a.m., and was arranged by [Carol Hoover](#) of the LANL Research Library (she manages our subscription). Topics to be covered:

- How to get started using IHS Standards Expert
- How to conduct general searches by topic
- How to conduct efficient searches by standard number
- Understand general and advanced search functionality
- How to set up alerts
- Understand how to develop Document Management Lists for specific projects and commonly referenced standards
- Answer your most burning IHS questions
- Opportunity to make suggestions for improvements to the product

### **TEMPORARY TRAILER ANCHORAGE STANDARD DETAILS**

Project engineers will want to check out the NEW temporary trailer foundation and anchorage standard details we posted last month. These are our first-ever Std Details in the [structural](#) category. Thanks to Augie Mosimann, Ralph Martinez, and others of Doug Volkman's ES-DE C/S/A Team for them. Cookbook foundations at a fraction of the cost!

Don't bother responding that "temporary" together with "trailer" yields a non sequitur at LANL; this is a challenge but we're making some headway on it.

### **LANL BUILDING OFFICIAL APPROVAL LISTING UPDATE**

LANL's compliance with the IBC and other building codes is governed by Chapter 16 of the Engineering Standards Manual. With that [chapter](#) online is a listing of testing agencies that are approved to do work on IBC-related jobs (and also fabricators that can self-inspect their shop work).

This list is updated periodically -- most recently late last month, because it was necessary to temporarily suspend Kleinfelder from concrete testing on new project starts due to a certification lapse.



### LYLE LEAVING

*Engineering Training and Qualification, one of the three pillars of Conduct on Engineering (along with Processes and Standards), is suffering a major blow. Its program manager, Lyle Kerstiens, is leaving LANL Thursday after 34 years.*

*As a result, and due to other issues like bringing new instructors online, the T&Q program is going through a major transition. As a result, the Spring courses advertised last month have been postponed. [Mike Brazile](#) is working with CoE and ES Division and others to reboot the program; [Yolanda Trujillo](#) remains the registrar.*

*We in the CoE Office certainly wish Lyle well in his retirement, and will miss both his positivity under duress and undying commitment to the rigorous Nuclear Navy approach, long regarded as THE model for nuclear staff T&Q. CSEs, DARs, and others may not miss him as much, but T&Q and CoE in general is a bit like taking cod liver oil or Beano – not necessarily fun, but good for you, collocated workers, the public, and/or the environment.*

### SAFETY INSTRUMENTED SYSTEMS COURSE

The DOE National Training Center is giving two sessions on the recently issued [DOE-STD-1195](#) – one here at LANL!!! The course is SAF-281, Design of Safety Significant Safety Instrumented Systems Used at DOE Nonreactor Nuclear Facilities. There's NO COST and no reason to miss this local opportunity if you are involved in this.

First course: April 25-26, SRS (near Aiken, SC), Bldg 766-H, Classroom 1020 (~28 of 35 slots filled)

Better bet: June 20-21, LANL, Canyon Complex Room 164 (~9 of 30 filled, need 15 minimum)

The NTC course schedule fills are [here](#). The registration page is [here](#). One must create an account (if trouble, contact Ronald Jasper, 505-845-5170 x315), register for class SAF-281, and wait for an email from LANL's Janet Martinez (DOE employees use "CHRIS"). If you don't receive an approval email within 10 days, follow up with Janet.

## ENGINEERING PROCESSES CHANGES

The following Administrative Procedures changes occurred last month. For a listing of all APs, visit the Conduct of Engineering Office, [Engineering Processes](#) page. For questions about the contents of the APs, please contact Program Manager Gurinder Grewal at [ggrewal@lanl.gov](mailto:ggrewal@lanl.gov) or 667-3667.

- [AP-341-504-R1](#) Temporary Modification Control
- [AP-341-515-R1](#) System Adequacy Analysis
- [AP-341-611-R1](#) System Design Descriptions
- [AP-341-612-R1](#) Facility Design Descriptions
- [AP-341-703-R2](#) Item Dedication

ICN #	AP Affected	ICN Description
ICN-013	<a href="#">AP-341-519</a>	<p>Page 4 of 21, Purpose, Field Change Notice. Delete the last paragraph:  <b>PE may not choose to use FCNs for small and simple construction projects. On these projects, implemented field changes are submitted as-built drawings for review and approval by the Design Agency.</b></p> <p>Form AP-341-519-FM01, R1 Field Change Notice Instructions; Page 2 of 3. Delete the 6th paragraph:  <b>PE may not choose to use FCNs for small and simple construction projects. On these projects, implemented field changes are submitted as-built drawings for review and approval by the Design Agency.</b></p> <p>Reason for Change:            To make AP-341-519, R1 consistent with the STD-342-100, Engineering Standards Manual, Chapter 1 – General.</p>

**Always ensure you are working to the latest revision being implemented by your facility.**

## LANL STANDARDS ISSUED IN MARCH

Eng Standards Manual [STD-342-100](#)

Chapter 5 Structural	Summary of Changes
VAR-2012-053 New Design Spectral Response Accelerations for PC1 and PC2 SSC at TA-55 and CMRR	New, posted under Section II
Chapter 16 IBC Program	
IBC-IP Attachment B Rev. 5	Update for 2009 IBC and addition of QA plan template
LBO Approval Listing	Updated 3/28 re Kleinfelder and concr

**Master Specifications** [STD-342-200](#)

Updated Exhibit I input template (link is atop the specs page)

**Drawings and Details** [STD-342-400](#)

<a href="#">Structural</a>	
ST-Z1052-1 Rev. 0 - Foundation Support System for Temporary Trailers – Single Wide	Initial issue
ST-Z1052-2 Rev. 0 - Foundation Support System for Temporary Trailers – Double Wide	Initial issue

**DOE TECHNICAL STANDARDS ACTIONS**

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

DOE-STD-3013-2012, Stabilization, Packaging, and Storage of Plutonium-Bearing Materials (83 pages) [PDF](#) (581 KB)

**WHEN GOOD CONDUCT OF ENGINEERING IS FOLLOWED**



### **LAST MONTH'S UPDATE TOPICS**

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

- **Engineering Training Schedule**
- **Prime Contract Appendix G Changes**
- **Engineering Processes Changes**
- **LANL Standards Issued in February**
- **DOE Technical Standards Actions**
- **When Good Conduct of Biking Isn't Followed**

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

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