

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 design, repair, and alteration of LANL facilities and the programmatic equipment within them. [[IMP 341](#)]

Topics this month:

- **LANL Building Official now Steinberg**
- **Project Engineering and LANL's new Project Team Model**
- **Contract Mod A015 Online**
- **Standards Training -- Courses Awaiting Students**
- **LANL Standards Issued in February**
- **DOE Technical Standards Actions**

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

### **LANL BUILDING OFFICIAL NOW STEINBERG**

LANL's Building Official (the "LBO") for the International Building Code (IBC) is now Dan Steinberg. Dan is the Site Chief Engineer under ADE Scott Gibbs in the Engineering and Engineering Sciences Directorate. The reason for the LBO change to Dan is that, effective this week, he also became the Acting Division Leader for Engineering Services (ES), a new division under ADE that was formerly the "E" in ADISS-FM&E Division.

The new ES Division includes Steve Diamond's Design Engineering Group (ES-DE or just DE, formerly DES, formerly DECS) and Mel Burnett's System Engineering Group (ES-SE or SE, formerly PSE). Easy as A-B-C, 1-2-3, right?

The LANL document that drives IBC implementation is Chapter 16-IBC Building Safety Program of the Engineering Standards Manual. ES-DE performs the LBO's plan review function; LBO inspections are by Paul Hudson's CM-CE Group. The chapter will be revised to reflect these administrative changes.

### **PROJECT ENGINEERING AND LANL's NEW PROJECT TEAM MODEL**

Also very recently, a new Project Engineering Office was formed in ADE under Deidre Witherell, who will now manage LANL's Project Engineers (PEs -- but don't confuse with P.E. as in registered professional engineer).

The new project team model is described in the just-issued Attachment B to IMP [313](#), Roles, Responsibilities, Authorities, and Accountability. In this model, the Project Engineer (PE) is the new focal point for all project design activities. The PE directs, leads, and manages assigned

engineering personnel and engineering support including engineering subcontractors (Design Agency). The PE manages technical resources, ensures that proper engineering processes are followed, and ensures technical adequacy of deliverables. If the project does not have a Project Engineering Manager (PEM), the PE may perform certain duties normally executed by a PEM, including integration of Design Authority and Design Agency activities.

IMP 313 Att B has more detail on Project Engineer (and other project team member) R2A2s, as do [job ads](#) 213860 and 213776 (search on ADE). Affected LANL Standards and Conduct of Engineering AP procedures are being modified to align.

### **CONTRACT MOD A015 ONLINE**

As noted last month, Mod A015 revised LANS Contract Appendix G effective 1/25 and imposes DOE O 420.1B Facility Safety, the latest suite of security orders, and many of the NNSA Administration Policy Letters (NAPs). The mod now appears on the [Prime Contract Management](#) website.

### **STANDARDS TRAINING -- COURSES AWAITING STUDENTS**

The LANL Standards Program offers a number of training courses on an as-needed basis. Hundreds have now attended, but many other people would benefit. The full suite of mostly free standards-related courses is on the Standards Homepage at the "[Standards Courses at LANL](#)" link. When enough people (10-20) have enrolled or been waitlisted for a course, then the class will take place, so sign up now!

The most popular classes include:

#### **[Introduction to LANL Engineering Standards](#)**

Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Normally taught by Tobin Oruch, Standards Manager. Course 24140 4 hours. **Next class tentatively in April, join waitlist now.**

#### **[LANL Electrical Engineering Standards](#)**

Covers the electrical engineering standards in Chapter 7 of the LANL Engineering Standards Manual and discusses mandatory requirements and good practices for those involved in electrical design. Strongly suggested for electrical designers, electrical engineers, electrical safety officers, and facility managers. Normally taught by David Powell. Course 17998 8 hours **Next class tentatively July 16, enroll now.**

#### **[Structural Standards Intro](#)**

Provides an introduction to the Engineering Standards Manual Chapter 5, Structural. The intended audience is project managers, structural engineers, safety analysts, and others who may be interested. The course discusses the chapter and design criteria in summary; detailed

discussion is planned for a future, follow-on course. Normally presented by Structural POC Mike Salmon & consultant Stephen Short. 31876 4 hours

[Engineering Standards Manual Application of Structural Requirements](#)

Provides an in-depth review of the new requirements in the Engineering Standards Manual, Chapter 5, Structural. Expected to be presented by Structural POC Mike Salmon & consultant Stephen Short. Course 31875 8 hours

[Drafting Standards Manual for Designers/CADD Operators:](#)

Provides basic standard format information for both graphic and textual information concerning design drawing requirements. Normally taught by POC Richard Trout 25103 4 hours

[Drafting Standards Manual for Engineers and Managers:](#)

Address the LANL Drafting Standards Manual in a summary fashion that highlights the manual's elements directed and focused to: design engineers, system engineer, project leaders, and management. These elements include: manual organization, National CAD Standards, Uniform Drafting Standards, conduct of engineering, necessity for standards, configuration management, vital safety system documentation, priority drawing requirements, and document submittal requirements. Normally taught by POC Richard Trout. 38726 3 hours

## **LANL STANDARDS ISSUED IN FEBRUARY**

### **LANL Engineering Standards Manual**

Posted LANL Authorized Rod Issue Stations listing as reference under Chapter 13, Welding & Joining, Volume 1, GWS 1-03

### **LANL Master Specifications Manual**

Spec: 28 3100 R1 Fire Detection and Alarm. Added Sections 1.2E and 2.3 (thanks to Walter Martinez, Julie Wood)

Spec: 26 2726 R2 Wiring Devices. Corrections/updates to UL, NEMA, and FedSpec numbers (thanks to Sam Garcia, David Powell)

### **LANL Standard Drawing and Details**

Civil Dwgs, various minor improvements (thanks to Mell Smithour et al)

ST-G2010-1 (Rev. 2) 1 Sht	Typical Road Sections
ST-G2010-2 (Rev. 1) 1 Sht	Curb and Gutter
ST-G2020-1 (Rev. 2) 1 Sht	Parking Layout
ST-G2020-1 (Rev. 1) 2 Sht	Parking Layout
ST-G2030-1 (Rev. 2) 1 Sht	Sidewalk

**DOE TECHNICAL STANDARDS ACTIONS**

DOE-STDs issued in February. [Website](#)

DOE-STD-3025-2007, Quality Assurance Inspection and Testing of HEPA Filters (20 pages) [PDF](#) (834 KB)

DOE-STD-3007-2007, Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities (28 pages) [PDF](#) (115 KB)

**LAST MONTH'S UPDATE TOPICS**

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

- **Structural Design Criteria Changing**
- **Contract Mod News**
- **Design Guides Now Available-- NEW!!!**
- **IHS Online National Standards Subscription News**
- **LANL Standards Issued in January**
- **DOE Technical Standards Actions**

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

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