

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:

- **Standards Training -- Upcoming Courses**
- **When LANL Specs Fall Short**
- **When Civics Classes Fall Short**
- **LANL Standards Issued in April**
- **DOE Technical Standards Actions**

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

STANDARDS TRAINING -- UPCOMING COURSES

There are two upcoming classes:

[Introduction to LANL Engineering Standards](#)

Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Over 450 trained, some twice. Taught by Tobin Oruch, Standards Manager. Course 24140, 4 hours. **Next class is Wed, May 16, 8-12, White Rock, nearly full, enroll now.** (if full, goes to a waitlist).

[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. Over 300 trained. Taught by David Powell, Electrical Stds POC. Course 17998, 8 hours **Next class tentatively July 16, ~10 enrolled, need a few more to make, enroll now.**

Reserve through CT-ESH using links above or call 7-0059 or e-mail esh-registration@lanl.gov.

The full suite of mostly free standards-related courses is on the Standards Homepage at the "[Standards Courses at LANL](#)" link.

WHEN LANL SPECS FALL SHORT

Naturally, the LANL Engineering Standards don't have a master ("in-house") specification section for every work result that might be needed here. We generally limit our collection of masters to those that have LANL-specific requirements, plus a few common needs. For any given project, then, the design agency must do two-things spec-wise -- (1) edit the LANL masters as needed where allowed and (2) develop project-specific spec sections as needed to have a complete project spec.

To help designers with the latter, a link to the [CSI MasterFormat 2004 Spec Numbers & Titles Index](#) is now posted near the top of the LANL Master Spec Index [page](#). This 170 page pdf should be used to choose the proper number and title. Still not sure? Call me -- my bound copy also has explanatory info for each number/title group.

WHEN CIVICS CLASSES FALL SHORT

One might assume that every single CFR, Executive Order, DOE Order and Standard, and Federal, State, and local law must be followed at LANL. That is not the case. [The LANL Engineering Standards pay close attention to these drivers, so following the Standards when preparing project programming and design criteria will help keep projects in the pink (and black).]

In general, LANS must comply with "the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the appropriate regulatory agency." [from [LANS Contract](#) Section I Page 44; I-123 DEAR 970.5204-2 LAWS, REGULATIONS, AND DOE DIRECTIVES (DEC 2000) (DEVIATION) (a).]

"Applicable" is the key, and here's the situation and how to use the online compilations as I've come to understand things:

DOE Orders, Standards, and NNSA Policy Letters

LANL follows those in the LANS/DOE Contract (Appendix G--List of Directives) available from [DOE](#) or [PCM](#) websites.

State and Local Law

There may be statutory exemptions or other legal exclusions under which certain laws or regulations may not apply to LANS. Therefore, one must be careful in determining with which state and local laws LANS need comply. If there is any question as to whether specific laws and regulations apply to LANS, confer with appropriate LANL SMEs or Legal Council. Many New Mexico regs are listed on the LANL Engineering Standards' "Universe" [webpage](#) along with links to these other resources.

Code of Federal Regulations (CFR)

To put laws into effect, Congress authorizes certain government agencies, such as the DOE and EPA, to create and enforce regulations. The CFR is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government. The CFR is divided into 50 titles that represent broad areas subject to Federal regulation. Each title is divided into chapters that usually bear the name of the issuing agency, and references are generally to title and section. For example, Title 10 is Energy and includes several chapters on DOE; the well-known Chapter III section 10 CFR 830 is on DOE nuclear safety. Likewise, 29 CFR 1910 is the best-known OSHA section, and LANL largely follows it because 10CFR851 invokes it with some exceptions. Titles are updated annually in the [CFR database](#).

Federal Law

These can be found on the 'net in two main places:

1. Public and Private Laws

The Public and Private Laws [database](#) is a collection of laws (as of 10/2002, those enacted since about 1995). Every six years, public laws are incorporated into the printed *United States Code* (online Supplements about annually). Other than unusual bills like the one that created the NNSA, the greatest interest for LANL is generally the annual budget authorization and appropriation bills.

2. United States Code (USC)

Public laws are incorporated into the [United States Code](#), which is a codification of all general and permanent laws of the United States. Coincidentally, the USC, like the CFRs are divided into 50 titles, but they're different titles than the CFRs. The database shows the present status of laws that have been amended on one or more occasions. Unlike CFRs there is no Title devoted to Energy.

Executive Orders (EOs)

EOs to Agencies are not self-executing for LANL; an EO is not a federal law or regulation, it's an order to agency heads. Locating: Use the Weekly Compilation of Presidential Documents at [URL](#). Scroll down and highlight all years. Then scroll down to Search Terms and you can enter just the number within quotes, for example "13058" and get results.

LANL STANDARDS ISSUED IN APRIL

LANL Engineering Standards Manual

Chapter 9, Facility Protection and Security, rev1 Change 1. Corrected Standard Detail links.
POC: Robert Gonzales, SEC-PPS1

LANL Master Specifications Manual

33 1000 Rev. 1 Water Utilities -- Updates to some manufacturers products, clarifying and standardizing valves and tie-ins, and requiring standardization of some taps to a larger size. The larger tap will alleviate some problems with the small size valves; handle breaks, dissimilar metal corrosion, etc. (thanks to Mell Smithour, POC Jim Haugen)

DOE TECHNICAL STANDARDS ACTIONS

No new STDs. <http://www.hss.energy.gov/NuclearSafety/techstds/standard/recappts.html>

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:

- **New ML Levels affect Specifications and Standard Details**
- **Standards Training -- Upcoming Courses**
- **Drafts for Review**
- **Energy Corner -- Future LANL Buildings Will Shine**
- **LANL Standards Issued in March**
- **DOE Technical Standards Actions**

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

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