

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. [[IMP 341](#)]

Topics this month:

- **How Not to Screw Up, Part I**
- **How Not to Screw Up, Part II -- Structural Steelwork**
- **LANL Standards Issued in September**
- **DOE Technical Standards Actions**

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

HOW NOT TO SCREW UP, PART I

The Construction Specifications Institute website now has several collections of audiocasts that can be heard with the simple click of a play button. Most popular is their "[How Not to Screw Up](#)" weekly series; these are short interviews often with well-known CSI members. The result is sometimes interesting and educational tidbits for designers, project engineers, and managers, including building design, specification, and contract administration. The "CSI Construction Minute" series also has some useful info.

HOW NOT TO SCREW UP, PART II -- STRUCTURAL STEELWORK

LANL building modification and construction projects must meet the International Building Code, 2003 edition. IBC Chapter 17 requires that structural steel and certain other safety-relevant work undergo well-defined special inspections. At LANL, these issues are addressed by Engineering Standards Manual Chapter 16, IBC Program. It requires that onsite work be inspected by qualified special inspectors in Construction Engineering. For structural fab offsite, activities must either be performed by a shop approved by the LANL Building Official or, with LBO permission, such activities can be inspected in the shop by an LBO-approved inspector (see Ch 16 Sections IBC-GEN and IBC-FAB).

The news this week is that Premier Steel Fabricators in Oklahoma is now the first LBO-approved fab and they are being added to the QA-PQ Institutional Evaluated Suppliers List ([IESL](#)) as an LBO-approved IBC firm (along with the approved testing agencies already there). Using Premier should save money versus full-time shop inspection elsewhere, and if Premier gets the business then some New Mexico firms may improve to the point of being approved.

Confused? Contact Paul Hudson, CM-CE, 6-0580, when planning steel fabrication per IBC Chapter 17.

LANL STANDARDS ISSUED IN OCTOBER

Engineering Standards Manual <http://engstandards.lanl.gov/>

IBC Program Chapter 16, Section IBC-GEN Attachment 2 Rev.2, Building Completion Checklist/Inspection Acceptance Checklist -- added DAR, other minor changes

LANL Master Specifications Manual http://engstandards.lanl.gov/New_Home.html#spec

23 7413, R0 - Packaged, Outdoor, Central Station Air-Handling Units. Initial Issue.

DOE TECHNICAL STANDARDS ACTIONS

<http://www.hss.energy.gov/NuclearSafety/techstds/standard/recappts.html>

DOE-STD-1090-2007, Hoisting and Rigging Standard (Formerly Hoisting and Rigging Manual)

[PDF](#)

DOE-STD-1170-2007, Electrical Systems and Safety Oversight Functional Area Qualification Standard [for Feds], 42 pages [PDF](#)

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:

- **851 -- New Rule, Old Codes and Standards**
- **LANL Standards Issued in September**
- **DOE Technical Standards Actions**

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

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