

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 Manual ISD Completely Revised**
- **NEW IBC Building Safety Program**
- **NEW Standards Scope and Applicability Matrix**
- **NEW QA Spec Section**
- **LANS Contract App G -- Upcoming Changes -- Update**
- **Suspect/Counterfeit Items Course**
- **LANL Standards Issued in October**
- **Last Month's Update Topics**

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

### **STANDARDS MANUAL ISD COMPLETELY REVISED**

The LANL Engineering Standards Manual was revised from front to back on October 27. The most significant changes are:

A NEW Introduction section (eff. 10/25)

Chapter 1 Section Z10-General Requirements for all Disciplines revised

Chapter 7 Electrical: revision of Sections D5030, D5090, G4010, and G4020;

Chapter 16 IBC Building Safety Program -- NEW

The other changes were administrative and included updates to references including LANS organizations and LANL Master Specification section numbers. The LANL Drafting Standards Manual and the Master Specifications Manual's spec requirements section were also revised administratively. The Standards Manual is now ISD 341-2.

Thanks go to Christina Salazar, the Standards' Doc Control specialist, for much of this effort.

Please see last month's [Update](#) for discussion on the other Conduct of Engineering IMP and ISD changes that occurred in October.

### **NEW IBC BUILDING SAFETY PROGRAM**

New ESM Chapter 16 defines LANL's program for enhancing the safety of building occupants that parallels a county or city building department's program for control of construction. To do so, it builds upon existing processes for design review, permitting/approval to proceed, inspection, and final acceptance for occupancy -- making them compliant with the International Building Code.

One major change results from implementation of the requirements of IBC Chapter 17, Structural Tests and Special Inspections. This requires the use of only qualified inspectors, material testing agencies, and structural steel fabricators.

The chapter also consolidates LANL amendments to the IBC and IEBC (Int'l Existing Building Code) and safety upgrade thresholds for programmatic systems.

For more information, start with the IBC-GEN section of the [chapter](#).

To access the IBC and IEBC, use LANL's IHS online national standards subscription at <http://library.lanl.gov/infores/stand/ihs/index.htm> (LANL IPs only).

### **NEW STANDARDS SCOPE AND APPLICABILITY MATRIX**

New to the Standards homepage is a table that presents the topical areas addressed by the Engineering Standards and their applicability to work, whether it be facility, programmatic, R&D, or weapons design. The matrix also includes topics for which Design Guides may be made available in the future. The matrix is currently near the top-right corner of the [webpage](#), above the line. If printing matrix, use 11x17.

### **NEW QA SPEC SECTION**

A new Master Spec section on QA has been issued: Section [01 4000](#), Quality Requirements. Like most specs, it's applicable to ML-3 and ML-4 quality levels as written (additional requirements might be necessary for ML-1/2). It's especially well-suited for facility work but also applicable to programmatic activities requiring QA requirements.

### **LANS CONTRACT APP G -- UPCOMING CHANGES -- UPDATE**

The Contract Mod discussed last month (DOE O 420.1B, Facility Safety, DOE O 414.1C, Quality Assurance, etc.) was delayed but is still expected. When complete it will appear at the new Prime Contract Management [website](#) or LASO contract [website](#).

### **SUSPECT/COUNTERFEIT ITEMS COURSE**

LANL now has suspect/counterfeit item (S/CI) overview training monthly at the White Rock Training Center. Course 39907 presents an overview of LANL's S/CI processes, past and current S/CI issues, materials and parts that are being counterfeited, and prevention tools. Audience: System engineers, QA, inspectors, listers, crafts, supplier evaluators, facility reps, and occurrence investigators.

Length: 2.5 hours. To enroll call CT-ESH registrars (667-0059), e-mail [esh-registration@lanl.gov](mailto:esh-registration@lanl.gov), or, internally, enroll [online](#)

### **LANL STANDARDS ISSUED IN OCTOBER**

#### **LANL Engineering Standards Manual ISD 341-2**

**Complete administrative revision -- all Chapters**

**Introduction to ISD 341-2 rev 0 -- NEW POC: Tobin Oruch, CENG**

**Chapter 1 Section Z10-General Requirements for all Disciplines rev. 4 POC: Tobin Oruch, CENG**

**Chapter 7 -- Electrical -- POC: David Powell, FME-DES**

Section D5030 R3 - Communications

Section D5090 R2 - Other Electrical Systems

Section G4010 R1 - Site Electrical Distribution

Section G4020 R2- Site Lighting

**Chapter 16 IBC Building Safety Program (New) -- POC: Tobin Oruch, CENG**

Section IBC-GEN - IBC Building Safety General Requirements, Rev. 0

Section IBC-IP - Special Inspection Process, Rev. 0

Section IBC-TIA - IBC Test and Inspection Agency Approval Process, Rev. 0

Section IBC-FAB - Steel Fabricator Evaluation and Approval Process, Rev. 0

#### **LANL Master Specifications Manual**

Section 100/200 r2, General and Specification Requirements (admin changes)

01 4000 r0 10/27/06 Quality Requirements -- NEW POC: Tobin Oruch, CENG

Fire Suppression sections -- revision on 3.2J on painting and editorial changes 10/2/06 POC:

Julie Wood, Fire:

21 1313 r1, Wet Pipe Sprinkler Systems

21 1316 r1, Dry Pipe Fire Sprinkler Systems

21 1319 r1, Preaction Sprinkler Systems

21 1326 r1, Deluge Fire-Suppression Sprinkler Systems

21 1339 r1, Foam Water Systems

#### **LANL Drafting Standards Manual**

Administrative revision all sections to r4

**LAST MONTH'S UPDATE TOPICS**

If you did not get last month's e-mailed Update, back issues are available: click "[Monthly Update](#)" below the Google search on the Standards [homepage](#) . The October Update topics were:

- **LANS Contract App G -- Upcoming Changes**
- **Upcoming IMP and Standard Changes**
- **I&C and Other Courses Available**
- **Standards POC Changes -- I&C, Nuclear**
- **LANL Standards Issued in September**

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