

Engineering Standards Update
Topics this month: February 2004

DOCUMENTS FOR REVIEW (Programmatic & Facility)
STANDARDS CHANGES (Programmatic & Facility)
I-CODES NOW ONLINE
CLASSES THIS WEDNESDAY

The Standards homepage: <http://www.lanl.gov/f6stds/pubf6stds/xternhome.html>

DOCUMENTS FOR REVIEW (Programmatic & Facility)

The first, general section of ESM Electrical Chapter 7 (D5000) has been posted to the homepage for review (ESM area). Among other things, its requirements for nuclear and other safety-related systems have been expanded -- and also extended to programmatic systems and components. Comments are due by March 18 to David Powell, the Electrical Standards POC.

STANDARDS CHANGES (Programmatic & Facility)

Engineering Standards Manual

Chapter 1, General

Section Z10, r0 General Requirements for All Disciplines + Appendix A, r0-Sustainable Design Requirements **NEW!!!**

Section 210, r1 System Lists **REVISED**

Section 230, r3 Component Nomenclature including **REVISED**

Att. 1- Component Function IDs Sorted by Description **REVISED**

Att. 2 - Component Function IDs Sorted by Discipline then by Description **REVISED**

Att. 3 - Component Functions Sorted by ID **REVISED**

Chapter 5, Structural r1 **REVISED**

Section I, R1 - General Criteria for all LANL Structures

Section II, R1 - PC-1 and PC-2 Design & Analysis Requirements

Section III, R1 - PC-3 and PC-4 Design & Analysis Requirements

Section IV, R1 - Geotechnical Investigations

Chapter 11, Radiation Protection **NEW!!!**

Section F1030.2, r0 Radiation Protection Requirements + Appendix A, r0- Radiation Protection Design Considerations and Features (Guidance)

Construction Specifications

08114, r2 Steel Doors and Frames

15410, r0 Plumbing Fixtures. **NEW!!!**

15900, r0 - Building Automation Systems **NEW!!!**

16075, r0 Electrical Identification (replaces 16195)

16130, r2 Raceways and Boxes (formerly 16111 and 16112)

16139, r0 - Cable Tray **NEW!!!**

Major changes are described by the Specifications Revision History webpage.

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I-CODES NOW ONLINE

The latest International Code Council (ICC) Codes have been added to LANL's IHS online national standard subscription by the Research Library. Of primary interest is the latest edition of the International Building Code -- IBC 2003 -- a document invoked by LANL's Work Smart Standards and the ESM.

Although LANL still uses the 1997 IAPMO Uniform Mechanical and Plumbing Codes (which are not online), the 2003 IMC and IPC are also available online.

IHS access is available to LANL users only at <http://lib-www.lanl.gov/infores/stand/ihs/index.htm> Note: PDF files are large (11-37 MB), so download is slow; recommend saving to desktop before browsing or word searching in them.

Finally, although this has no direct effect on LANL, it is noteworthy that the NM Construction Industries Commission voted in December to adopt the following 2003 International Codes to become effective July 1, 2004: Building (IBC), Residential (IRC; building portion only), Energy Conservation (IECC), and Existing Building (IEBC).

CLASSES THIS WEDNESDAY

Does anything above raise a question? Space is still available -- please sign up and attend!

Intro to LANL Engineering Standards Course 24140: March 3, 2004, 8-12 noon, no cost. Covers the development and use of the LANL Engineering Standards Manual and Construction Specifications Manual, plus use of national codes and standards.

http://eshtraining.lanl.gov/pls/gencouraxs/Cour_By_Number?CourseNumber=24140 or contact PS-13 at 7-0059 between 8 a.m. and noon.

LANL Drafting Manual: Engineering Symbols, Prints, and Drawings Course 25103: March 3, 2004, 1-5 pm. No cost. To register contact PS-13 at 7-0059 between 8 a.m. and noon, or enroll online at http://eshtraining.lanl.gov/pls/gencouraxs/Cour_By_Number?CourseNumber=25103

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