

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 342](#)]

Topics this month:

- **Standards Courses in September**
- **Are You on a National Standard Committee?**
- **Industrial Truck Standards Available**
- **Documents For Labwide Review**
- **LANL Standards Issued in August**
- **DOE Standard Actions**
- **Last Month's Update Topics**

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

STANDARDS COURSES IN SEPTEMBER

Join the hundreds of LANL and contractor personnel who understand standards, specs, and drafting. Open to LANS, KSL, and AEs at no charge.

Intro to the Structural Requirements Course [31876](#), ESM taught Thurs, Sept 7 from 8-12. This is recommended for project managers, structural engineers and other engineers and designers dealing with anchorage and bracing, safety analysts, and others who may be interested. It is a prerequisite for the advanced structural design course 31875 now being taught later this year.

Introduction to LANL Engineering Standards Course 24140, taught Wed, Sept 20 from 8am - noon by Tobin Oruch

Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities.

http://eshtraining.lanl.gov/pls/gencouraxs/Cour_By_Number?CourseNumber=24140

LANL Drafting Standards Manual for Engineers and Managers Course 38726, taught Wed, Sept 20 from 1-3 pm by Richard Trout

Addresses the 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.

http://eshtraining.lanl.gov/pls/gencouraxs/Cour_By_Number?CourseNumber=38726

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

ARE YOU ON A NATIONAL STANDARD COMMITTEE?

If you're a LANL employee and are actively serving on a committee supporting a national standard, then DOE Wants You...to let them know! Examples would be committee work for ANS, ASCE, ASME, ASTM, NFPA, etc. A number of LANL people do such committee work and deserve recognition. LANL must report to this work to DOE who then reports it to the OMB annually by public law. DOE has also documented the work in the "Directory of DOE and Contractor Personnel Involved in Non-Government Standards Activities, July 12, 2006, [DOE-TSL -4-2006](#)." LANL needs to be recognized to the same extent as other sites, so please complete and fax me the [form](#) to complete this little reporting task. Right now it list the following active employees (we know there are others): Ted Miller, Donivan Porterfield, James Sprinkle, and Ray Tell.

INDUSTRIAL TRUCK STANDARDS AVAILABLE

Need a standard on ATVs, forklifts, or similar? You might, since OSHA (29 CFR 1910) Pt. [178](#) requires that they meet ANSI B56.1 when purchased. A weblink to the Industrial Truck Standards Development Foundation's ANSI/ITSDF B56 standards series has been added by the Research Library on its [Standards](#) webpage. Once on ITSDF one can register and download any of the following:

- B56.1 - 2005, Safety Standard for Low and High Lift Trucks
- B56.5-2005, Safety Standard for Guided Industrial Vehicles and Automated Functions of Manned Industrial Vehicles
- B56.6 - 2005, Safety Standard for Rough Terrain Forklift Trucks
- B56.8 - 2006, Safety Standard for Personnel and Burden Carriers
- B56.9 - 2005, Safety Standard for Operator Controlled Industrial Tow Tractors
- B56.10 - 2005, Safety Standard for Manually Propelled High Lift Industrial Trucks
- B56.11.1 - 2005, Double Race or Bi-Level Swivel and Rigid Industrial Casters
- B56.11.4 - 2005, Hook-Type Forks and Fork Carriers for Powered Industrial Forklift Trucks
- B56.11.5 - 2005, Measurements of Sound Emitted by Low Lift, High Lift and Rough Terrain Powered Industrial Vehicles
- B56.11.6 - 2005, Evaluation of Visibility from Powered Industrial Trucks
- B56.11.7 - 2005, Liquid Propane Gas (LPG) Fuel Cylinders (Horizontal or Vertical) Mounting - Liquid Withdrawal - For Powered Industrial Trucks

DOCUMENTS FOR LABWIDE REVIEW

There are a number of Engineering Standards Manual section drafts now available for review and comment by Sept 15 by the recipients of this Update. POCs for comment resolution and comment form information is on the [Drafts in Review](#) webpage. Summaries of change are in each document.

Chapter 1 -- General

[Z10, Rev.4](#) - General Requirements for All Disciplines/Chapters

Chapter 4 -- Architectural

Site & Architectural Design Principles

[Part 1 of 3](#)- Site Development Standards

[Part 2 of 3](#)- Circulation

[Part 3 of 3](#)- Site Furnishings

Chapter 7 -- Electrical

[Section D5090 R2](#) - Other Electrical Systems

[Section D5030 R3](#) - Communications

[Section G4010 R1](#) - Site Electrical Distribution

[Section G4020 R2](#)- Site Lighting

Chapter 13 -- Welding and Joining

Volume 1

[GWS 1-11 Rev. 1](#) Introduction & Scope

[GWS 1-12 Rev. 1](#) Administrative Control of Welding & Brazing

Volume 3

[WPS 3-01 Rev. 2](#) Application of Welding Procedure Specification

Chapter 16 -- IBC Building Safety Program

[Section IBC-GEN](#) - IBC Building Safety General Requirements, Rev. 0

[Section TIA](#) - IBC Test and Inspection Agency Approval Process Rev 0

[Section SIP](#) - Special Inspection Process Rev 0

[Section FAB](#) - Steel Fabricator Evaluation and Approval Process Rev.0

LANL STANDARDS ISSUED IN AUGUST

LANL Engineering Standards Manual ISD 342-1

Chapter 13 -Welding, Volume 3, Welding Procedure Specs 3-01 App A WPS Index

2007-23 GTAW-P r0 8/15/2006 B-209 AL-Plate & sheet/B-209 AL-Plate & sheet
2010-23-AC GTAW r1 8/14/2006 B-209 AL-Plate & sheet/B-209 AL-Plate & sheet
3001-1-SC GMAW-SC r1 8/11/2006 0.03 C. CS- Pipe, plate, sheet/ 0.03 C. CS- Pipe,
plate, sheet
6000-101/107-F103 TB r0 8/10/2006 A-285 CS- Pipe, tube, sheet/B-152 Cu- Pipe,tube,
sheet
6000-102-F102 TB r0 8/15/2006 A-312 SS- Smls & welded pipe/A-312 SS- Smls &
welded pipe
6000-107-F102 TB r1 8/10/2006 B-88 Cu- Tube/B-88 Cu- Tube
6000-107-F103 TB r1 7/31/2006 B-88 Cu- Tube/B-88 Cu- Tube
6000-107-F103-NF TB r0 8/7/2006 B-88 Cu- Tube/B-88 Cu- Tube - "Med-Gas"
6000-107/108-F102 TB r0 8/10/2006 B-152 Cu- Pipe, plate, sheet/B169 CuAlFe- Pipe,
plate, sheet
9000-8 STUD r1 8/10/2006 SS- 3xx-x Stud/A-240 SS- Plate, sheet & strip

LANL Master Specifications Manual ISD 342-2

08 1213 R1 Hollow Medal Frames – Revisions including product manufacturing list update.

08 1400 R1 Wood Doors – Minor revisions including inclusion of LEED criteria.

33 0513 R1 Manholes and Structures – Minor revisions as noted on Specs Archives page

LANL Standard Drawings and Details ISD 342-3

Civil

ST-G3010-5 s1 r2 Potable/Fire Protection Water -- Sloping Pipe Anchor
ST-G3020-1 s1 r2 Sanitary Sewer Manhole
ST-G3020-1 s2 r2 Sanitary Sewer Design Notes
ST-G3030-3 s1 r2 Storm Water Manhole
ST-G3030-3 s2 r1a Storm Water Design Notes (minor editorial changes)

DOE STANDARD ACTIONS <http://www.eh.doe.gov/techstds/standard/index.html>

Changes this month:

DOE-HDBK-1139/2-2006 Chemical Management (Volume 2 of 3) (34 pages) [PDF](#) (136 KB)

DOE-TSL-4-2006 Directory of DOE and Contractor Personnel involved in Non-Government Standards Activities (121 pages) [PDF](#) (324 KB)

Above URL will take you to the "DOE Technical Standards Full-Text Documents." Clicking on "Approved Standards" or "Recently Approved" on the left margin takes you to the Standards.

LAST MONTH'S UPDATE TOPICS

With all of the organizational changes and listmanager impacts, it's still likely that some did not get last month's e-mailed Update. Likewise, if you're getting two copies, I may be able to fix the problem. Back issues are posted on the Standards Homepage. FYI, the main August Update topics were:

- **WSS Whatzup Follow-up**
- **Concrete Help is Here -- ACI added to IHS Subscription**
- **LANL Standards Issued in August**
- **DOE Standard Actions**

To request a change to this newsletter's distribution contact Tobin Oruch, oruch@lanl.gov. Previous issues of this Update are available; click "Monthly Update" below the Google search on the Standards homepage <http://engstandards.lanl.gov/>

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