

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:

- **Electrical Standards Course April 9**
- **Pressure Safety Notice 0803**
- **New Conduct of Engineering Procedures**
- **Sustainable Design Seminar April 16**
- **LANL Standards Issued in March**
- **DOE Technical Standards Actions**

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

ELECTRICAL STANDARDS COURSE APRIL 9

Point-of-Contact David Powell will teach his seminal course "[LANL Electrical Engineering Standards](#)" from 7:30 am - 4pm on Wed, April 9 at the White Rock Training Center. The course 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. Course 17998, 8 hours. Reserve online using link above or call 667-0059 or e-mail esh-registration@lanl.gov

PRESSURE SAFETY NOTICE 0803

Noted last month, a new LANL Requirements Notice issuing in the next few days will install a new LANL program for the procurement, test, and inspection of pressure vessels and relief devices. A new chapter of the Engineering Standards Manual is also in development that will eventually replace the Notice. Both official policy and reference documents are posted on the Chapter 17 [webpage](#); the Notice will also be linked from there.

A key feature of the new program is the establishment of a network of deployed Pressure Safety Officers (PSOs), one per Facility Operations Director, who will lead and assist with many aspects of implementation. In addition, efforts are underway to build a set of institutional support resources for assisting with design, maintenance, testing, and inspection of pressure systems.

NEW CONDUCT OF ENGINEERING PROCEDURES

While this newsletter is focused on engineering standards, readers may be interested other aspects of conduct of engineering at LANL. Last month, training courses now being taught were highlighted. In the past two months, several new or revised Conduct of Engineering Administrative Procedures were issued and posted on the LANL internal CoE Office AP page <http://int.lanl.gov/orgs/ceng/APs.shtml>:

- AP-341-504, Temporary Modification Control
- AP-341-505, Design Change Package
- AP-341-517, Design Change Form
- AP-341-518, Hardware Modification Traveler (HMT)
- AP-341-519, Design Revision Control
- AP-341-608, Engineering Drawings and Sketches
- AP-341-620, Review of LANL Produced Design Documents
- AP-341-621, Design Authority Technical Review
- AP-341-622, LANL Review of Designs Produced by External Design Agencies
- AP-341-623, LANL Management Design Reviews
- AP-341-624, Independent External Design Reviews
- AP-341-802, System Health Reporting

Groups should use AP-341-401, *Conduct of Engineering Program Administrative Procedures Management*, when initially implementing CoE procedures. For questions about processes including the APs, please contact Gurinder Grewal at ggrewal@lanl.gov or 667-3667. AEs needing copies should contact Christina Salazar, clsalazar@lanl.gov or 667-7786.

SUSTAINABLE DESIGN SEMINAR APRIL 16

As a reminder, the Standards Program is hosting the annual ASHRAE Satellite Broadcast on April 16 from 11 am - 2 pm at the Canyon Complex (by Hilltop House) Room 165 (bring lunch). Everyone is welcome, including local AEs.

The title is "Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork." The broadcast will explain "what you and other members of the building team must do to advance high-performance buildings with improved design, construction, and operations processes. Buildings that meet the needs of occupants and truly achieve sustainability objectives can only be created if the building community shares its knowledge and experiences. Join ASHRAE in learning more about your role in integrated building design and helping to create a sustainable built environment."

Professional Engrs: The session offers 3 PDHs (earn without having to travel or to pay seminar fees).

Agenda

11:00 a.m. Introduction – Don Rheem, Moderator
Opening Remarks – Kent Peterson, ASHRAE President

Roundtable Discussion – Presenters

"What is Integrated Building Design" – Walter Grondzik
"The Integrated Design Process" – Charles E. Gullett III
Audience Question and Answer Session

Approx. 12:20 p.m. Break

Approx. 12:30 p.m. "Achieving Net-Zero Energy Buildings Through Integrated Building Design" – Drury B. Crawley

"Bringing the Pieces Together – Actual Applications" – Paul Torcellini

Audience Question and Answer Session

1:55 p.m. Closing – Don Rheem, Moderator

LANL STANDARDS ISSUED IN MARCH

LANL Master Specifications Manual http://engstandards.lanl.gov/New_Home.html#spec
22 0813 Rev 2 -- Testing Piping Systems: Clarifications and improvements throughout.

DOE TECHNICAL STANDARDS ACTIONS

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

New or Revised DOE Tech Stds this past month:

DOE-STD-1189-2008, Integration of Safety into the Design Process [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:

- **Programmatic Applicability of LANL Engineering Standards**
- **Pressure Safety Notice**
- **Conduct of Engineering Training**
- **Sustainable Design Seminar April 16**
- **LANL Standards Issued in February**
- **DOE Technical Standards Actions**