ENGINEERING STANDARDS UPDATE
Trying to Make Standards Exciting Since 2001

This is the monthly newsletter of the LANL Conduct of Engineering Office's Engineering Standards Program. The Standards define the minimum technical requirements for the design, fabrication, construction, commissioning, repair, and replacement of both new and existing equipment and facilities, including both maintenance and modification, for programmatic and facility work at LANL [PD340].

Topics this month:

- **CoE Office Move**
- **Engineering Processes Changes**
- **P343 Engineering Training and Qualification Manual**
- **Electrical Standards Course Wed, Dec 8**
- **CoE Quote of the Month**
- **LANL Standards Issued in Oct**
- **What Happens When Conduct of Engineering Isn't Followed**
- **DOE Technical Standards Actions**

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

COE OFFICE MOVE

CENG-OFF, home of Engineering Standards, Processes, and Training & Qual, moved to TA-3 from the wilds of TA-16 last month, along with the rest of ADE's staff. We're in Bldg 216, the building behind the old admin building, on the first floor on the east side (nearest TA-3-410). We welcome visitors, though parking is tougher without a govie.

As far as wildlife, elk sightings have ended for all but Christina, but a couple of TA-3 post-docs do look the part.

ENGINEERING PROCESSES CHANGES

The following Engineering Processes documents have been issued and are on SharePoint here: Engineering Processes page. As always, since this is Processes, not Standards, please contact Gurinder Grewal at ggrewal@lanl.gov or 7-3667 with questions.

AP-341-603, R0	Alternative Studies
AP-341-604, R0	Engineering Input and Coordination of Conceptual Design Report
AP-341-609, R0	Specifications for Non-Safety SSCs
AP-341-610, R0	Specifications for Safety Related SSCs
AP-341-620, R1	Review of LANL Produced Design Documents
AP-341-621, R2	Design Authority Technical Review
AP-341-624, R1	Independent External Design Review
AP-341-702, R0	Statements of Work

COE-LG-001, R0 Requirements	A Guide to Management Levels, Technical Evaluations, and Quality
COE-LG-002, R0	A Guide to Alternative Studies

Also recently issued: P341 Engineering Processes Manual.

P343 ENGINEERING TRAINING AND QUALIFICATION MANUAL

Lyle Kerstiens has been busy, too. This procedure rev changed us from a qual card process to a qual standard process, added engineering fundamentals and continuing training, changed the interim qual process, and added pressure safety officer T&Q. Send him your thanks here!

ELECTRICAL STANDARDS COURSE WED, DEC 8

Point-of-Contact David Powell will teach 17998, "LANL Electrical Engineering Standards" from 8-5 at the White Rock Training Center -- if a couple more people enroll. 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. Enroll (or disenroll) using link above or call 667-0059 or e-mail Central Training at esh-registration@lanl.gov.

COE QUOTE OF THE MONTH

You should take your work very seriously, but not yourself.
Dennis J. Hall, FCSI, CCS, CCCA, FAIA, SCIP, CSC, and current CSI President

LANL STANDARDS ISSUED IN OCT

The CoE Formal Clarification or Interpretation form was revised (Form 2176). (Please use for anything other than a non-binding POC opinion).

DOE TECHNICAL STANDARDS ACTIONS

New or Revised DOE Tech Stds this past month:
DOE-STD-1151-2010, Facility Representative Functional Area Qualification Standard (40 pages)

WHAT HAPPENS WHEN CONDUCT OF ENGINEERING ISN'T FOLLOWED

NOT funny:

In September, the old SM-43 administration building D&D contractor was removing "non-load bearing" steel studs from a partition wall in the subbasement of Wing D when the ceiling sagged. Apparently, per Doug Volkman, an uncontrolled modification of the floor above the subbasement ceiling had been made in which another floor had been constructed on top of the subbasement ceiling for offices there. The modification consisted of 3" steel tube framing with concrete in-fill that was placed on the 1st floor above the sub-basement demolition work zone. This floor modification was never connected to the perimeter concrete bearing walls and was, in fact, simply resting as pure gravity dead load on the 1st floor level, which was also the sub-basement ceiling. The assumed "non-loading" steel studs that were constructed below in the subbasement were, in reality, acting as structural supports for modified 1st floor offices. Since there no drawings of this modification were available, the demolition contractor never suspected this would be the case.

Kinda funny:

LAST MONTH'S UPDATE TOPICS

Miss an issue? The archive is at "Monthly Update" on the Standards homepage. Last month's topics:

- **LANL Standards Variance and Interpretation Processes Changed**
- **Nuclear Safety Design Course Coming to LANL**
- **CoE Quote of the Month**
- **Ethics for PEs in Oct – Updated**
- **LANL Standards Issued in Sept**
- **What Happens When Conduct of Engineering Isn't Followed**
- **DOE Technical Standards Actions**

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

Tobin Oruch, Engineering Standards Mgr
Los Alamos Nat'l Lab, Conduct of Eng Program Office
TA-16-200 M/S P948 ph (505) 665-8475 fx 667-5405
oruch@lanl.gov http://engstandards.lanl.gov/
Please consider the environment before printing this email