

ENGINEERING STANDARDS UPDATE

Standards are serious business, but this newsletter isn't.

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:

- **Engineering Training Schedule**
- **Prime Contract Appendix G Changes**
- **Engineering Processes Changes**
- **LANL Standards Issued in February**
- **DOE Technical Standards Actions**
- **When Good Conduct of Biking Isn't Followed**

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

ENGINEERING TRAINING SCHEDULE

This Spring's schedule, starting Wednesday if Lyle's laptop gets fixed by midday tomorrow (you'll be notified by the afternoon if not). Most courses are in MSL Auditorium, start at 8:30, and are 6-8 hours long.

Course No.	Course Name	Date	Who
43658	Core Engineering Overview	3-7	CoE
43663	Technical Baseline	3-14	TBD
43666	Design Management	3-22	TBD
43662	Quality	3-28	TBD
43667	Maintenance Processes	4-12	Kyle Carr
40797	Work Control Processes	4-12	Kyle Carr
43665	Support to Operations and Maintenance	4-18	TBD
43668	Project Engineering Processes	4-25	ES-PE
24140	Engineering Standards Introduction	5-9	Tobin Oruch

PRIME CONTRACT APPENDIX G CHANGES

Appendix G Order/etc changes are generally quarterly now; [Mod 183](#) effective February 6 made a few, the most interesting (potentially) to readers being the addition of DOE Technical Standard 3020-2005 (HEPA procurement) and DOE O 442.2, Differing Professional Opinions for Technical Issues Involving Environment, Safety and Health. As to the HEPAs, if you follow LANL Master Spec [23 4133](#) you'll be ok, per SME Scott Salisbury.

ENGINEERING PROCESSES CHANGES

AP-341-519 R1, Design Revision Control - Interim Change Notice

Circulating by email March 5 and posting Thursday or so to the Eng Processes SharePoint is an interim change notice that deletes the option of not preparing Field Change Notices (FCNs) for field changes on small and simple construction projects.

[On a related note, in the Standards world, a new Division 01 LANL Master Specification containing a template for preparation of an FCN Criteria Document is in final reviews and will facilitate the FCN process.]

For a listing of all APs, visit the Conduct of Engineering Office, [Engineering Processes](#) page. For questions about this email or the contents of the APs, please contact Gurinder Grewal at ggrewal@lanl.gov or 667-3667.



LANL STANDARDS ISSUED IN FEBRUARY
Eng Standards Manual [STD-342-100](#)

Chapter 1 - General	Summary of Changes
Section 210 Systems List Rev. 5 and Att 1	Chapter 1 Minor clarifications and system list expansion. List may be updated independently of this document
Section 230 Equipment/Component Functional IDs Attachment 1	Chapter 1 Update and expansion of list; controlling document 230 unchanged

DOE TECHNICAL STANDARDS ACTIONS

New or revised DOE [Tech Stds](#) this past month: None

WHEN GOOD CONDUCT OF BIKING ISN'T FOLLOWED

This is a tale involves a yellow jersey, saddle soreness, pain, drugs, injections, lovely attending women, and a successful comeback -- but not by Lance Armstrong. It's my history of the past two weeks, starting with a broken wrist from a bike accident, two surgeries in a week (one unrelated), and caring doctors, nurses, friends, and colleagues.

But maybe that's TMI, so given my audience, let's just talk hardware. You're probably thinking the same things I did when I saw this post-op x-ray. Is Stryker Medical associated with Simpson Strong-Tie? And do they have an ICC-ES Report equivalent stating whether every available hole in the plate needs a screw into solid substrate, or is it installer judgment? Later that day, shocky with pain and nausea, I also wondered if the orthopod had installed these screws using an impact driver (and about his lineage in general, but eventually got anti-emetics and more narcs that took care of matters).

Actually, this past month Engineering has been contemplating these same kinds of anchorage questions in regards to installing furniture system shelving ("flippers", etc) on walls. The ESM Architectural Chapter currently prohibits such installations, mostly because we lacked calculations supporting them. But there remains a need for wall-mounted shelves, so Hugo Escobeda in ES-DE has almost finished calcs showing what can resist our SDC D seismic forces. The calcs describe how many and which fasteners are required; this will support a sitewide variance to ESM Chapter 4 allowing wall-mounted shelves, and a short installation standard for the long term. One thing's for sure -- toggle bolts in gyp board won't cut it for shelves.



LAST MONTH'S UPDATE TOPICS

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

- **Standards Spotlight – Implementing Clarifications and Variances**
- **National Engineers Week Feb 19-25**
- **LANL Engineering Wiki**
- **CoE Engineering Processes Changes**
- **IHS Online National Standards – Digital Rights Management**
- **CSI in a Cartoon**
- **LANL Standards Issued in January**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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