
ENGINEERING STANDARDS UPDATE

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

Topics this month:

- **CoE for R&D is here**
- **Online National Standards Service Improvements**
- **LANL Standards Issued in November**
- **Engineering Processes Changes**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

COE FOR R&D IS HERE

Two new policy documents were issued last week:

[PD370](#), *Conduct of Engineering for Research and Development (R&D)*

[P371](#), *Determining Needed Engineering Rigor for Research and Development (R&D)*

Concurrently, the four 340-series P-docs were revised to harmonize with the 370-series docs. In doing so:

[PD340](#) was retitled *Conduct of Engineering for Facility Work*,

[P341](#) was retitled *Facility Engineering Processes Manual*, and

[P 343](#) was retitled *Facility Engineering Training and Qualification Manual*.

[P 342](#) *Engineering Standards* wasn't retitled.

The new P-docs define an all-new approach to R&D CoE; it's a bit like what Diet Coke is to Coke. Or Bud Lite to Bud (or, given the international diversity of our researchers, perhaps Tsingtao or Pilsner Urquell). Anyway, if you're in the R&D world, this is major, probably -- the biggest caveat to the using these docs is this statement in PD370: "R&D engineering products that have the potential to affect the safety basis or technical baseline of a LANL facility are subject to the provisions of [PD340](#), *Conduct of Engineering for Facility Work*, and [P341](#), *Facility Engineering Processes Manual*."

These new CoE-Lite documents have some good concepts and should work out just fine if everyone actually uses them, correctly interprets and follows their intent, and doesn't over-lawyer the wording. (Just like with the 340-series, right?)

Questions on these new P-docs should be directed to Heidi Hahn, ADE, hahn@lanl.gov or 5-4606.

[U.S., Latin America need more engineers - Andres Oppenheimer ...](#)

ONLINE NATIONAL STANDARDS SERVICE IMPROVEMENTS

The [IHS](#) logon splash screen informs that Standards Expert now offers redline “version comparison” documents, free-of-charge, to customers that subscribe to both the active and historical collections for several standards development organizations, with others to be added in the coming months.

Before you get excited, know that LANL only subscribes to ANSI historical standards (and ANSI nuclear active), so this doesn’t apply to us yet and may not ever. And while we subscribe to most 2009 building codes, not the latest, since that’s what we’ve adopted -- we don’t get to the whole historical collection of ICC or IAPMO.

There were other minor improvements also: [Quick Overview](#).

ENGINEERING ETHICS CASE STUDIES 2012 COURSE NOW AVAILABLE

Heidi’s also been busy on ethics. She writes that Course #18300 Engineering Ethics Case Studies 2012 is now available in UTrain. These case studies are intended as refresher training for people who have completed Course #51419 Ethics Training for Engineers and need additional ethics-related Professional Development Hours (PDHs) to meet state licensure or other continuing education requirements. Upon completion of these case studies, trainees may claim 1 PDH.

The course has a new feature this year. Trainees can interact with their peers before, during and after taking the course, exploring ethical dilemmas on the ADE [discussion board](#).

Questions or problems? Contact Heidi Hahn, ADE, hahn@lanl.gov or 5-4606.

[Scary YouTube compilation of horrific accidents, most caused by speeding, many on slick highways sent by alumnus Lyle Kerstiens](#). Don’t be these idiots!

LANL STANDARDS ISSUED IN NOVEMBER
Drawings and Details STD-342-400

Chapter 7 - G4010-40 Rev. 0 Low Voltage Dry Type Three Phase Transformer – **NEW!!!!!!**

Sht 1: Equipment Pad Dimensions, Sht 2: Anchorage Requirements, Sht 3: Pad General Notes

Master Specifications [STD-342-200](#)

| | |
|---|---|
| 01 3545 R5 Water Discharge Requirements | Periodic review and minor updates. |
| 06 1000 R2 Rough Carpentry | General re-write, revisions to submittal requirements, sustainable design requirements added. |
| 33 5100 R9 Natural Gas Distribution | Added 100% inspection on plastic pipe joining. |

ENGINEERING PROCESSES CHANGES

The following Administrative Procedures have been revised, approved and posted:

| | | |
|---------------|---------------|--|
| AP-341-502-R3 | Course #55428 | Management Level Determination (Issued: 1/14/12) |
|---------------|---------------|--|

TRAINING REQUIREMENTS: Disregard Course # if you are not assigned to this AP. Those assigned to this AP will show the requirement in your To-Do List in [UTrain](#). This will not affect your qualifications. You have 30 days from the date of issue to complete the required training.

For training questions, contact [Yolanda Trujillo](#) at 5-5696.

For questions about the contents of any of these documents, please contact Eng Processes Program Manager Gurinder Grewal at ggrewal@lanl.gov or 667-3667. For a listing of all APs, visit the Conduct of Engineering Office [Engineering Processes](#) page. Always ensure you are working to the latest revision being implemented by your facility.

DOE TECHNICAL STANDARDS ACTIONS

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

WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED

Sure, this engineer was kind of clever, but made the server fool with small change -- and a lousy tipper, too. Four or five bucks would have been much better.



LAST MONTH'S UPDATE TOPICS

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

- **QA Changes and You**
- **Engineering Ethics**
- **AWS Standards Availability**
- **Appendix G Changes are Booming**
- **LANL Standards Issued in October**
- **Engineering Processes Changes**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

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