

## **ENGINEERING STANDARDS UPDATE**

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

### **Topics this month:**

- **May is Building Safety Month**
- **Spec Writing and SpecText Orientation Webinars**
- **LANL Standards Issued in April**
- **DOE Technical Standards Actions**
- **When Good Conduct of Engineering Isn't Followed**

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

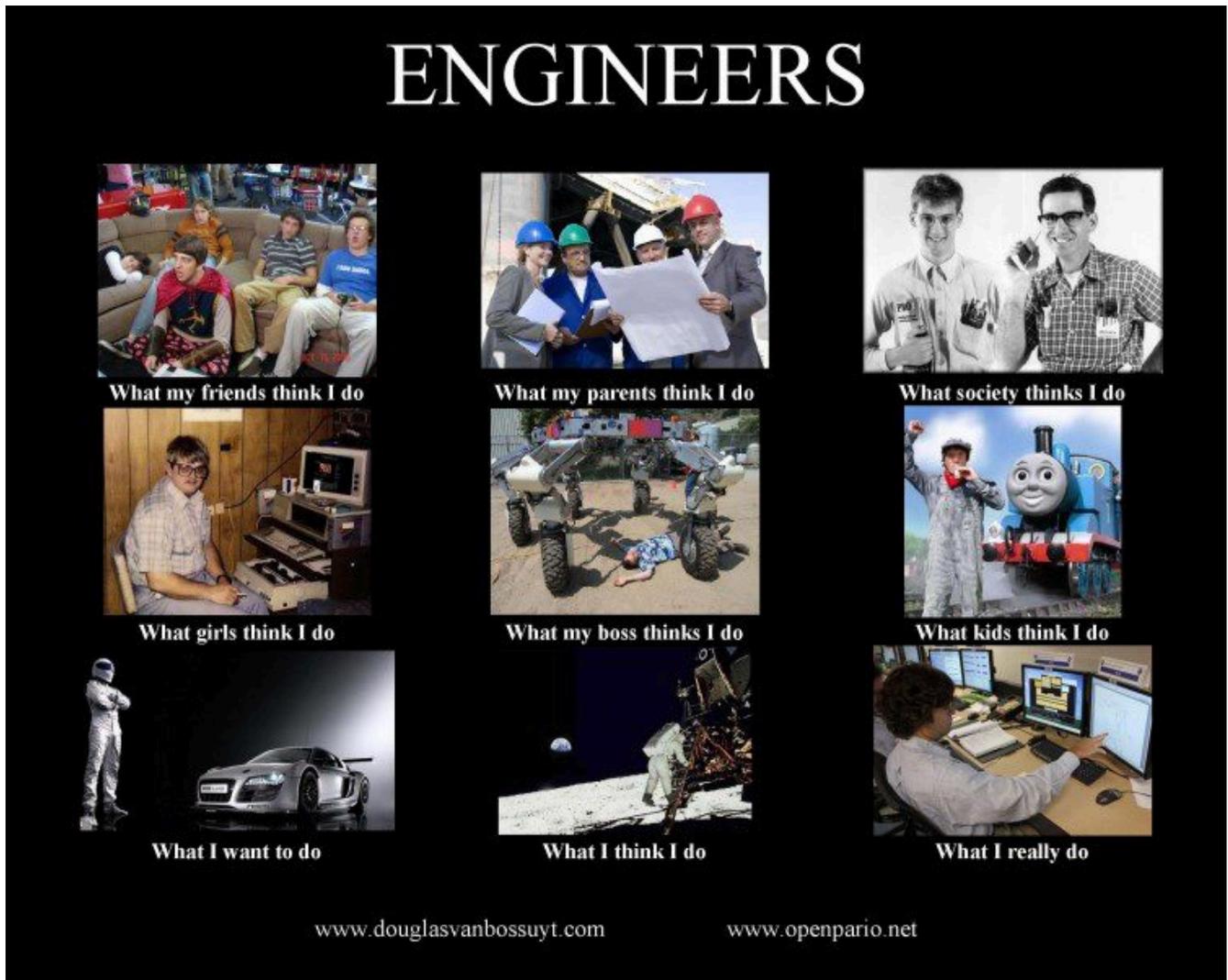
### **MAY IS BUILDING SAFETY MONTH**

Building Safety Month is being celebrated by International Code Council members and communities in May. The theme for the month is "Code Officials Keep You Safe."

Each week of Building Safety Month spotlights a specific area of building safety: Fire Safety and Awareness, May 6-12; Disaster Safety and Mitigation, May 13-19; Backyard and Pool Safety, May 20-26; and Energy and Green Building, May 27-31.

Building Safety Month earned the highest recognition during 2012 from President Barack Obama and his [declaration](#) of May as National Building Safety Month. ICC invites everyone to join Building Safety Month by practicing safety every day. Read more from ICC [here](#).

LANL code officials try to "keep you safe" through the ESM Chapter 16 IBC Program and LANL's Fire Protection Program (PD 1220) primarily. Please do your part by following them!



## SPEC WRITING AND SPECTEXT ORIENTATION WEBINARS

LANL has a collection of very nearly 200 customized, in-house master spec templates that cover work results most often needed and/or that are most challenging from a technical or quality standpoint. They're essential to getting work done efficiently and effectively around here. As many as we have, there are many tasks for which a spec is needed but we don't have a master, and so the designer is responsible for developing one (per ESM Ch 1, [Section Z10](#), Att F, Specifications).

There are many sources of spec go-bys including manufacturers, other government agencies (e.g., via [UFGS](#)), and "generic" guide specs like MasterSpec and SpecText subscriptions. The former is often favored by architects and the latter by engineers. Per our non-discrimination

against architects policy, we subscribe to both; the specs and supporting pdfs for in-house-design use from a server accessible to many of the Standards Program [POCs](#).

SpecText offers free, bi-weekly orientation webinars that give an overview of their products. These might be useful to someone who creates or edits specs frequently. Topics covered in this 60-90 min webinar include:

- Delivery and Installation (Oruch handles this)
- SpecText Editing
- Masterworks Productivity Tools
- SpecAgent

Register for an upcoming webinar by clicking on a link below.

[May 07, 2013, 11:30 a.m. MT - Tuesday](#)

[May 21, 2013, 11:30 a.m. MT - Tuesday](#)

## LANL STANDARDS ISSUED IN APRIL

### Eng Standards Manual [STD-342-100](#)

| Chapter 13 – Welding, Joining, NDE                   | Summary of Changes  |
|--|---|
| Reference: Warehouse Stocked Filler Material Listing | Reformatted weld rod reference to show the specific tests required for each filler material. There are no technical changes to Ch. 13 requirements. This document clarifies information that was summarized in the previous rev. 2 of GWS 1-03 Att.5. |

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

|                                     |  |
|-------------------------------------|--|
| 05 1000 R7 Structural Metal Framing | Clarified nut-tightening requirements for cast-in-place anchor rods. |
|-------------------------------------|--|

## DOE TECHNICAL STANDARDS ACTIONS

DOE [Tech Stds](#) activity this past month:

[DOE-STD-5507-2013](#), Standard for Communicating Waste Characterization and DOT Hazard Classification Requirements for Low Specific Activity Materials and Surface Contaminated Objects.

[DOE-STD-1128-2013](#), Good Practices for Occupational Radiological Protection in Plutonium Facilities

## **WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED**

There was a major crane-lift incident at Arkansas Nuclear One Unit 1 on Easter Sunday. The investigation to determine the root cause is well underway and being presented May 9; some people are prematurely blaming engineering. Engineering is an all-too-popular scapegoat around here, too, and I've chosen this incident for this monthly Update topic just to make that point.

More details: Shortly after the incident, Clay Davis wrote this to me with early information: "This is what happens when a critical lift goes very wrong. The accident happened Sunday at 0645 MDT at Arkansas Nuclear One Unit 1. The load is a 500 ton main generator stator. The box beam structure of the hydraulic transporter lifter (custom equipment) failed under load. The operator rode the structure to the deck some 35' and lost a leg in the process. A 24 yr old plant employee was crushed to death. There are reports of structural damage to the turbine building support columns and the turbine pedestal. Extent of structural damage is not yet scoped out but let's put it this way, they will not be back on line for a while."

There's much more info [here](#).



## LAST MONTH'S UPDATE TOPICS

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

- **Standards as Pizza Topping!**
- **Safety, Quality, Productivity Leadership Workshops**
- **SpecText Webinars**
- **Hot Rocks**
- **Hot Docs**
- **LANL Standards Issued in March**
- **Engineering Processes Changes**
- **QA Process 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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