

---

**ENGINEERING STANDARDS UPDATE**

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

**Topics this month:**

- **Standards Program Welcomes Christine Honey!!!!!!!!!!!!!!**
- **ES Div Reorg Beginning**
- **Engineers Week**
- **Training & Qualification**
- **LANL Standards Issued in January or so**
- **Engineering Processes News**
- **MSS Document Changes**
- **When Good Conduct of Engineering is Followed**

LANL Engineering Standards: <http://engstandards.lanl.gov/>

**Note: This newsletter has hyperlinks all over but their formatting may not show. Please hover your cursor where you might expect one.**

**STANDARDS PROGRAM WELCOMES CHRISTINE HONEY!!!!!!!!!!!!!!**

The sweetest standards news in a couple of decades is surely that Christine will soon be joining the ES-FE team to support the Engineering Standards program. Having two of us working full-time alongside the part-time discipline POCs (and Christina Salazar-Barnes, who works on all the CoE documents and webpages) is a fantastic development and recognition of the need to do more to maintain and improve the Standards Program.

In a January 26 email announcement, CoE Office Director Dan Tepley also noted:

“Christine currently supports the ALDPI deployed Project Engineering team at TA-55. Prior to coming to LANL, she worked in process engineering, manufacturing, quality assurance, procurement and operations. I am particularly excited about her previous experience in process improvement and applying it to the ES-FE function.

We are still working on a transition plan with her ES-EPD management, but she will start joining some of our meetings this week.

Christine is a tremendous addition to our team. Please welcome her when you see her (virtually for now).”

This is big!!!!!!!!!!!!!!

**Happy Groundhog Day!**



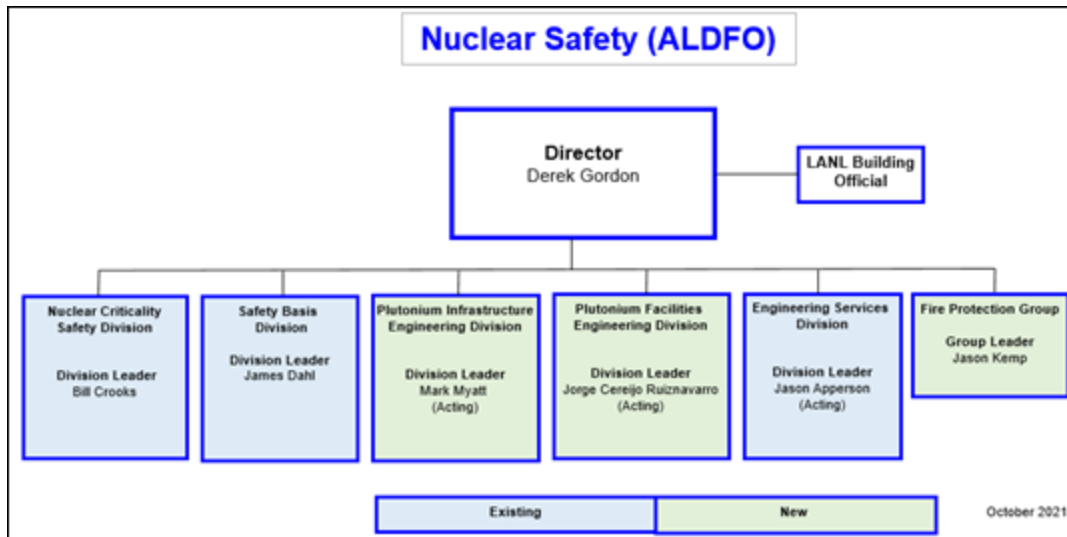
**Funny Sarcastic Grandma**

Becks Robinson · January 27 at 6:19 AM · 🌐

This is Punxsutawney Phil's ex-wife, Phyllis, who now lives in Florida and said that Phil is a compulsive liar.

**ES DIV REORG EXPECTED FEB 14**

Jason Apperson, Derek Gordon, Jorge Cerejo Ruiznavarro, and Mark Myatt presented the final, new ALDFO Nuclear Safety organization to ES employees in an all-hands meeting last week. Beginning February 14, the engineering support structure for LANL facilities should look like the below, and acting positions should be filled around that time or in the days following.



## ENGINEERS WEEK

From LANLToday:

[Mark your calendar for Engineers Week events, Feb. 23-24](#)

Join in for a mix of virtual and in-person events on the wide spectrum of operational and engineering activities conducted in support of our mission. Open to all employees.

### About National Engineers Week

Engineers Week, (Feb. 20-26 nationally), celebrates how engineers impact the world; raises awareness about the need for engineers, technicians, and technologists; and engages students in engineering.

This year's theme, "Reimagining the Possible," celebrates how engineers create new possibilities all the time. From green buildings to fuel-efficient cars to life-saving vaccines, engineers work together to develop new technologies, products and opportunities that change how we live.

At the Lab, the Associate Laboratory Directorate for Weapons Engineering is sponsoring this year's events. Let's celebrate the many ways engineers turn dreams into reality by reimagining what seems impossible to become the possible!

[Feb. 23: Learn what Athena's doing for women engineers](#)

The Athena Engineering Scholars Program brings women engineers to the Lab and helps them advance in their careers. Check out our current stats and efforts in this story.

**TRAINING & QUALIFICATION****COE Lesson Plan Templates and Use, UTrain 52970, Wed Feb 9, 0900, Virtual**

Audience: Anyone who is creating training, briefing, or capturing informal briefings. Course provides a standardized use of lesson plans for course material to ensure sustainability and continuity of information flow to workers. POC: Stan Hayes, [sehayes@lanl.gov](mailto:sehayes@lanl.gov). Please register in UTrain for the course by the 8<sup>th</sup> since an MS Teams link will be emailed to the class roster around 0700 on the 9<sup>th</sup>.

**Safety Basis for Engineers, Course 39564, Thurs, Feb 10, 1-3 pm, Virtual**

Course is required for and will help CSEs and PrEs learn what they need to know about Safety Basis to prepare for their oral boards and their engineering duties. Has lots of TA55 examples but is generally applicable to any nuclear facility. POC: Joy Getha, 5-9586, [jgetha@lanl.gov](mailto:jgetha@lanl.gov). Please sign up for this course in UTrain by the 9<sup>th</sup> so Joy can email you the meeting invitation and handouts on the 10<sup>th</sup>.

**Registering for UTrain Courses:** Go to UTrain, search on course, select and enroll. Disenroll if you have to bail. AEs can also register for some; use token (CryptoCard) or contact ES training guy Stan Hayes ([sehayes@lanl.gov](mailto:sehayes@lanl.gov)) with Z number.

Also, from the vendor Swagelok: **Oxygen System Safety, Thurs, February 10, 10–10:30 a.m.**

**Tech Talk Live Webinar: Oxygen System Safety**

**Thursday, February 10**, Free webinar | 10:00 AM Mountain Time, Length: 30 minutes

Learn about the risks associated with oxygen service, how to mitigate those risks, and how to select products compatible with oxygen applications. Topics:

- Risks with Oxygen
- Ignition Mechanisms
- Reducing Risks in Oxygen Systems
- Products for Oxygen Service
- Assembly and Cleanliness Guidelines

Email [karen.polen@swagelok.com](mailto:karen.polen@swagelok.com) to register. If you cannot attend the live event, you can register anyway and we will send you the link to watch the recorded event.

**LANL STANDARDS ISSUED IN JANUARY OR SO**  
**Engineering Standards Manual ESM STD-342-100**

ESM Chapter	Section	Title	Rev.	Date	Comments
<b>Ch. 1, General</b>	<b>Z10</b>	<b>General Requirements for all Disciplines/ Chapters</b>	15	2/1/2022	Updated NA-LA delegations, clarified applicable NCS including NFPA editions, and eliminated STD-342-500 Design Guides. Made RCD a living document, required BIM for selected projects, made PDL optional, and expanded as-built direction. Eliminated Att G, Engineering Deliverables for Projects (Guidance) ... many basis footnotes moved to requirements basis (ID) document ...Thanks to the reviewers, especially Tadz Kostrubala.
<b>Ch. 1, General</b>	200	Item Numbering and Labeling – Attachment 1: CMMS Upload Workbook	1.2	1/31/2022	Minor Subtypes updating. Thanks to Alt. POC Charlie Nuss.
<b>Ch. 17 - Pressure Safety</b>	NASME	Reference: When listed components cannot be used, reputable manufacturers as discussed in NASME-1-a, b, etc. (xls) (LANL only)	–	1/10/2022	Updated. Thanks to POC Ari Ben Swartz.

For Ch. 14 Sustainable Design, expect an updated Att. 1 and chapter references this week.

**Master Specs STD-342-200**

Spec Number	Rev.	Spec Title	Effective	Comments
28 4600	3	Fire Detection and Alarm	2/1/2022	Thanks to Keenan Dotson and all the APROOVE reviewers.

**STD Drawings and Details STD-342-400**

Chapter	Topic	Dwg. #	Sheet	Rev.	Title	Date	Summary
Civil	Security Fence	ST-G2040-1	1	7	Typical Fence	1/19/2021	Rev. 6 (1-11-22) revised dimensions, fence height edited from 7' 0" to 8' 0"; Rev. 7 removed notes 3 & 4. Thanks to Dante Salazar, Mike Denlinger, Scott Richardson, POC Jeff Mccale and Alt. Debbi Miller (SEC-PPO), others.

**Design Guides STD-342-500**

This collection of standards from other DOE sites was eliminated because of the age and non-applicability of the documents. P342 and ESM Ch. 1 Z10 were revised to remove reference to them.



**ENGINEERING PROCESSES NEWS**

From CoE Eng Process Manager Sarah Murdock:

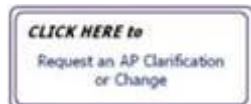
The following Administrative Procedures have been revised and posted to the COE Administrative Procedures SharePoint site. If you have been identified as requiring additional training on this AP you will see an assignment on your UTrain “to do” list. [Might not be any on these two.]

Always ensure you are working to the latest version of all Engineering Administrative Procedures.

<b>AP-341-401 R6, COE Program Administrative Procedure and Work Instruction Management</b>	
Issued 01/10/2022	Adjusted title to cover full scope of procedure. ▪ Added scope, instructions and template for Work Instruction document. ▪ Adjusted order of sections to be clearer.
Effective 01/10/2022	
<b>AP-341-703 R5.1, Commercial Grade Dedication</b>	
Issued 01/25/2022	Administrative Change: Updated Section 15.0 Contact information due to organizational change. SME/Author: Rick Curry, 396-1314, rcurry@lanl.gov
Effective 01/25/2022	

For questions or concerns regarding this email or the content of the APs, please contact Sarah at 667-7788.

Please enter [issues with APs](#) in the SharePoint issues database. Use the live button below, same one that’s found in the upper right of the Processes SharePoint homepage.



**MSS DOCUMENT CHANGES**

Below are recent changes issued by Maintenance and Site Services Division per Jeremy vonHarders.

**O&M Criterion/PMI Changes**

Operation and Maintenance Criterion and related Preventative Maintenance Instruction (PMI) are standards about which system engineers should be familiar. Implementation is required 30 days from issue date for non-nuclear facilities, 60 days for nuclear facilities. Questions? Contact the document author.

If you have issues on the SharePoint site use Internet Explorer to access them. Access to all such documents when no direct link is shown below: [https://logistics.lanl.gov/MSS/\\_layouts/15/start.aspx#/Policy%20%20Procedures/Forms/Public.aspx\\_\\_\\_\\_\\_](https://logistics.lanl.gov/MSS/_layouts/15/start.aspx#/Policy%20%20Procedures/Forms/Public.aspx_____)

**PMI 412-A Rev1: Centrifugal Pump Annual Preventative Maintenance**

Added instructions for the following:

- Temperature inspection
- Lubrication inspection
- Pump maintenance
- Receiver tank / sump tank maintenance
- Strainer, check valve, solenoid valve maintenance

Direct: <https://logistics.lanl.gov/MSS/PMI/412-A.pdf>



**WHEN GOOD CONDUCT OF ENGINEERING IS FOLLOWED**

Last month I touted the James Webb telescope deployment success. But this just in:



Ok, this is joke. And thanks to the Exner bros for it!

Keeping with the good CoE theme, it was Rickover's birthday about a week ago. This man is still much discussed and revered in the Navy and can be credited with a lot of the "Conduct of" rigorous approach to engineering, construction, operations, and maintenance that's front-and-center in all nuclear endeavors. From LinkedIn:



The 'net has tons of great quotes. Here are a few from the 25 top ones on [https://www.azquotes.com/author/12340-Hyman\\_Rickover](https://www.azquotes.com/author/12340-Hyman_Rickover)

There are lots of male pronouns but this largely reflects the Navy and government when said in the mid-late 1900s.

When doing a job — any job — one must feel that he owns it, and act as though he will remain in that job forever.

The man in charge must concern himself with details. If he does not consider them important, neither will his subordinates.

Responsibility is a unique concept... You may share it with others, but your portion is not diminished. You may delegate it, but it is still with you... If responsibility is rightfully yours, no evasion, or ignorance or passing the blame can shift the burden to someone else. Unless you can point your finger at the man who is responsible when something goes wrong, then you have never had anyone really responsible.

Be ever questioning. Ignorance is not bliss. It is oblivion. You don't go to heaven if you die dumb. Become better informed. Learn from others' mistakes. You could not live long enough to make them all yourself.

#### **LAST MONTH'S UPDATE TOPICS**

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

- **ES Div Reorg Beginning**
- **CGD & TEA EDRMS Reports**
- **Engineers Week Submissions Due Jan 7**
- **Electrical Standards Course Jan 11**
- **LANL Standards Issued in December or so**
- **Engineering Processes News**
- **DOE Technical Standards Action**
- **National Standards Action**
- **MSS Document Changes**
- **When Good Conduct of Engineering Isn't Followed**

The views expressed in this email are not necessarily those of my employer.  
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  
(505) 665-8475 oruch@lanl.gov <http://engstandards.lanl.gov/>  
*Please consider the environment before printing this or any email*