

Engineering Standards Update

News from Engineering Standards Program

Sept. 12, 2023

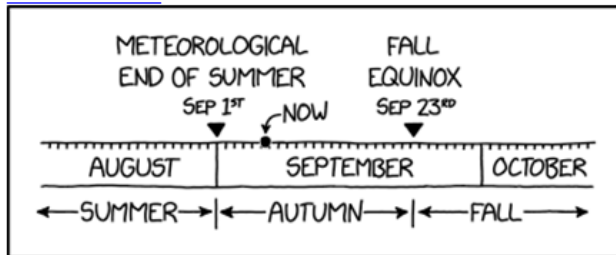
[Standards are serious business](#) but this newsletter isn't always.

Topics this month:

- New Email for Engineering Standards Team!
- Training & Qualification
- LANL Standards Issued in August or so
- National Standards Action
- DOE Technical Standards Action
- MSS Document Action
- When Good Conduct of Engineering Isn't Followed

Welcome to Autumn!

[Autumn and Fall](#)



NOW THAT SUMMER IS OVER, THE FIRST DAY
OF FALL IS JUST A FEW WEEKS AWAY!

Of course in reality this is just a US/UK thing; in British English, 'fall' is the brief period in between and 'autumn' is the main

xxcd, 177 Huntington Ave Ste 1703 #75312, Boston, Massachusetts 02115-3153 US

NEW EMAIL FOR ENGINEERING STANDARDS TEAM!



The Engineering Standards Team now has a new email address for any general questions: engstandards@lanl.gov. It goes to the whole team: Tobin Oruch, Alan Yaeger, Neha Gidwani and Christina Salazar-Barnes. And the email address is easy to remember since it aligns with the [Engineering Standards web address](#)! Alternatively, visit the [CoE](#) or [Engineering Standards](#) webpage and click on the email under the Engineering Standards team. Of course, if your need is discipline-specific, then it's best to contact the Standards POC for the corresponding ESM chapter shown on that [webpage](#).

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TRAINING & QUALIFICATION **Courses, Seminars, Programs**

CoE: LANL Engineering Standards Overview 52693 – Mon Sep 18 or Nov 6, 2:00-4:00 pm, Teams

If you're new, don't have 8-hour Course 24140 Intro to LANL Engineering Standards (see below) in your training plan, or just want to learn about the standards for 2 hours, then you can take this shortened course taught by Neha Gidwani.

ESM Chapter 21 Software – Overview and Owners Courses – series is Tues, Nov 7 and 14, Teams NOTE DATE CHANGE FOR 34048

A few of you are new "Owners" of nuclear safety or other ML-1, -2, or -3 software (installed in a system, or maybe for design/analysis). If you follow ESM Chapter 21 Software then you need to take training on the chapter. The managers (including FDARs) of Owners only need the overview.

So...if you, in fact, need training, please register in UTrain for the course(s) below. If you're not sure what you need, contact SME/instructor Jared Harris.

- 38047 ESM Chapter 21 Software Overview, 3 hours. (RLMs and Owners): Tuesday, Nov 7, from 9 am - noon.
- 34048 ESM Chapter 21 Software Owners (3 additional hours, just Owners return for this): Thursday, **Nov 14 (a change from last month)**, also from 9 am - noon.

Intro to LANL Engineering Standards, 24140 – Nov 13-16 (M-Tr, must attend all 4 days), 2:00-4:00 PM Teams

Attend each day to receive credit (it's 8 contact hours, despite what UTrain may say. Also, ignore UTrain showing revision 7/15/2020 11:20 AM America/Denver, that's just an establishment date). You'll need to block your own calendars. Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. **Required course for many LANL engineers**, recommended for those at local AE firms, and **only taught a few times a year – so try to attend.**

T&Q Admin matters

E-mail for COE Training: es-do-tng@lanl.gov

Click e-mail address above for help with COE training issues like getting registered, missing credit, etc. Goes to the whole team: Stan Hayes, Nick

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Jones, Sadonna Tapia, Santana Quintana, and Chris Martinez. Alternatively, visit the Engineering Services Training and Qualifications webpage by clicking the button "[Email The Training Team](#)". The Training and Qualifications webpage contains information and tools on training requirements and copies of the various Qualification Standards maintained by the COE office.

E-mail for COE Qual Program: COEQuals@lanl.gov

Click e-mail address above for any help with COE quals such as CSE, PrE, Design, Project, PSO, FDAR, and other qualified positions (and also SHR matters for CSEs). Goes to Deb Cushner, Jess Blea, and Barb Dela Cruz.

Instructor-Led Course Request/Registration Guide

For live courses without a session in UTrain, there's a [step-by-step guide](#) posted to the CoE T&Q "Resources" page.

Exhibit A:

California bear 'Hank the Tank' captured in Lake Tahoe and will be relocated

A bear believed to be responsible for breaking into more than 20 homes in California's South Lake Tahoe area has been captured and will be relocated to Colorado, wildlife officials announced. Click [here](#) to read more.



An undated file photo shows "Hank the Tank," officially called Bear 64F.

California Department of Fish and Wildlife

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LANL STANDARDS ISSUED IN AUGUST OR SO

Engineering Standards Manual ESM [STD-342-100](#)

Chapter	Section	Title	Rev.	Date	Comments
Chapter 17 - Pressure Safety	ASME	Reference: on Unlisted Components Approval Process and Forms webpage, the " Allowed Unlisted Components Listing per ADMIN-2, Article Z -- Unlisted, Specialty, or Unique Components, para 2 "	N/A	8/10/2023	Thanks to POC Ari Swartz

Be on the lookout for revised ESM Chapter 17 on Sep 22!

Standard Drawings & Details [STD-342-400](#)

Chapter	Drawing No	Title	Rev.	Date	Comments
General	ST-Z1040-1	Abbreviations	0	9/11/2023	Thanks to Scott Richardson, POC Michael Gallegos, and discipline POCs

NATIONAL STANDARDS ACTION

[Online National Codes & Standards](#) (Accuris Eng Workbench)

NOTE: **Information Handling Services (IHS)**, that some years ago became IHS Markit and in 2022 merged with S&P Global Engineering Solutions, **has now been rebranded as Accuris**. Regardless, the codes and standards are still in the same place and from the service called Engineering Workbench.

DOE TECHNICAL STANDARDS ACTION

[Tech Stds Program postings](#) in the past month on the [Technical Standards Portal](#):

[API STD 1104](#), Welding of Pipelines and Related Facilities

Publication Date: **July 2021**

Type of Change: **Errata/Erratum** (Note, ESM Ch. 1 Z10 says these shall be followed)

[NFPA 69](#), Standard on Explosion Prevention Systems

Publication Date: **2019**

Type of Change: **Complete Revision**

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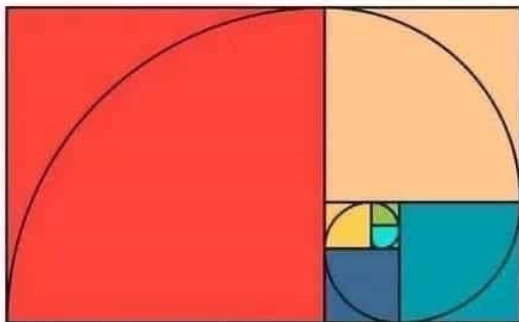
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Note: NFPA documents are read-only!

Exhibit B:

Duration of the days of the week,
explained with the golden ratio.



MSS DOCUMENT ACTION

[Operation and Maintenance Criterion and related Preventative Maintenance Instructions](#) (PMI) are standards with which system and plant 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 shown on its approval page.

Below are recent changes issued by Maintenance and Site Services Division per Jeremy Vonharders. Click [here](#) to access. If you have issues with SharePoint sites, use a Microsoft browser (e.g., Edge) to access them.

AP-MNT-004 Rev 4: Facility Condition Inspection

- Facility Condition Inspection has gone through a major rewrite with changes to performance, documentation, and responsibilities. Please review the changes

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and ensure Facility Condition Inspections within your FOD are IAW the requirements in the revised procedure.

PMI 432-A: Munters Dehumidifiers

- Initial issue.

MSS-GUIDE-047: Failure Modes and Effects Analysis To Determine Critical Spare Parts

- Initial issue.

Exhibit C (A + B = C):

This is the ideal male body. You may not like it but this is what peak performance looks like.



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WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED



FAULT LINE

It is not entirely clear if the case below is a failure of Conduct of Engineering or Conduct of Operations & Maintenance or both?

NRC Proposes \$87,500 Fine to BWXT

Nuclear Regulatory Commission - News Release/ No: II-23-024 August 23, 2023 / Contact: [Dave Gasperson](#), 404-997-4417

The Nuclear Regulatory Commission has [proposed](#) an \$87,500 civil penalty to BWXT Nuclear Operations Group Inc. for two violations of regulatory requirements related to safety controls at its fuel fabrication facility in Lynchburg, Virginia.

The violations were discovered after a January 19 2023 [event](#) when a storage tank at BWXT's Uranium Recovery Facility overflowed, spilling uranium solution onto the floor and into a ventilation system. Two safety controls designed to prevent such a spill failed, increasing the risk of an accidental criticality. The event did not endanger the plant workers, the public, or the environment.

The NRC identified the proposed violations in March during an [inspection](#) that revealed an apparent breakdown of safety controls designed to prevent an accidental criticality at BWXT's facility.

The NRC held a pre-decisional enforcement conference with BWXT on June 21 2023, and the company provided its perspective, including the results from its root cause

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evaluation and corrective actions. The company's investigation into the spill tracked the underlying reasons for the violations back to 2012.

The NRC reviewed BWXT's response and determined that while previous incidents did not result in an accidental criticality, BWXT missed opportunities to identify the issues for more than 10 years. However, the NRC did credit actions BWXT has taken to strengthen safety controls in imposing the proposed fine.

The company has 30 days to pay the proposed penalty or contest the penalty in writing.

LAST MONTH'S UPDATE TOPICS

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

- Dan Tepley is new LANL Building Official
- Training & Qualification
- LANL Standards Issued in July
- National Standards Action
- DOE Standards Action
- MSS Document Action
- When Good Conduct of Engineering Isn't Followed

The views expressed in this email are not necessarily those of the Engineering Standards Team's employer.

To request a change to this newsletter's distribution, please email engstandards@lanl.gov.

