

EFCOG Engineering Practices Subgroup (EPSG)
Minutes of February 9, 2022 All-Hands Meeting

Chair Grant Ryan welcomed callers and led the nearly one-hour meeting following the agenda; minutes follow.

1. Safety Topic
Grant discussed an active shooter incident that had recently occurred in Richland.
2. **FY2022 Work Plan (also see att)**
 - A. **Looking for volunteers to lead 1189 (Safety in Design) and 3024 (SDD) Standards reviews.** Please contact Grant if you have interest in leading. Alternatively, if you simply have input on the STDs, please send to [Grant and Tobin](#).
 - B. Task: Develop Best Practice for implementing configuration management in a building information model (**BIM**) environment.
 - A. Status: Blake Christensen from Hanford Mission Integration Solutions (blake_a_christensen@rl.gov) will lead the BP effort. Bradford.Langley@pxy12.doe.gov will participate.
 - B. Related: The fledgling EPSG BIM community of practice recently started by PNNL, SNL, LANL, and NNSC is open to including all DOE sites. To join, contact Matt Pacheco <mipache@sandia.gov>. Telecon planned for Feb 28.
 - C. Task: Provide constructive feedback on enhancements/updates that should be considered in next revision of DOE-STD-1189-2016, *Integration of Safety into the Design Process*.
 - A. Status: **Looking for volunteer to lead**; please talk to Grant if you have interest in doing so. Alternatively, if you simply have input on the STDs, please send to [Grant and Tobin](#).
 - B. David Compton suggested surveying the sites to determine who has used the 2016 version.
 - A. The Nuclear and Facility Safety Subgroup has "Implementation of DOE-STD-1189, Integration of Safety into the Design Process (Panel), Moderator: Brad Evans" on their agenda for Feb 23 and EPSG may attend (ref. Oruch email of Feb 9 or: [Nuclear & Facility Safety Workshop Spring 2022 – EFCOG.org](#) Dates/Times: February 15 – 17, 11am-2:30pm MST; February 22 – 24, 11am-2:30pm MST.
 - D. Task: Provide constructive feedback on enhancements/updates that should be considered in next revision of **DOE-STD-1066-2016, Fire Protection**.
 - A. Status: Mike Cates, EPSG Task Team lead, and Will Cosey are leading the Fire Protection Task Team's work with Jim Bisker and Bill Shields (SNL) on the update effort this year.
 - E. Provide Constructive Feedback on Enhancements/Updates that Should be Considered in Next Revision of **DOE-STD-3024-2011, Content of System Design Descriptions**
 - A. Status: **Looking for volunteer to lead**; please talk to Grant if you have interest in doing so. Alternatively, if you simply have input on the STDs, please send to Grant and Tobin.

3. **DOE Status Update** (Garrett Smith/Brian DiNunno/David Compton)

Garrett briefed the group on his multiple DOE and EFCOG sponsorship roles and AU-30 happenings. The proposal to split the nuclear aspects of DOE O 420.1C out from the rest was discussed. He discussed use of DOE's OrgEx website for discussion by community of practice (COP). Tobin mention that EPSG's **Pressure Safety** COP had just restarted this week after a hiatus after the task team was sunsetted, and that they might use OrgEx (and a document sharing site). Sean Fargo inquired about DOE-STD-1020; Brian responded that AU-31 is taking input on it, scoping a revision (DNFSB [TECH-47, Seismic Hazard Assessments \[2021-100-014\].pdf](#) and 10-yr PSHA requirement mentioned).

4. **Reports from Around the Complex**

Current Priority Challenge (each site/contractor's chance to voice issues that others can learn from or may need help with).

Hanford Mission Essential Services Contract (HMESC): Grant Ryan discussed staffing challenges similar to those described by the other Sites.

Hanford Tank Farms (WRPS): Dan Baide indicated normal mission work was ongoing.

LANL: Tobin Oruch discussed massive staffing for recent mission growth, resultant Eng Division breakup, project cost reduction pressure and related NNSA ProtoSTAR office building design criteria pilot.

SRR: Scott Zapor discussed transferring to SR Mission Completion [relaying of information (briefings / docs etc.), blue sheeting of existing procedures]; SWPF integration; staffing (attrition, etc.); filling critical positions (e.g., CGD, Fire Engineering); transition to new basic order agreement.

Y-12/Pantex: Brad Walker mentioned recruiting (FP, electrical), pressure safety CM, electrical safety in the BOP, "commercial" approach to new fire station and EOC (issues with B31 code usage, welding), BIM and SAP maintenance module integration.

INL: Mike Cates, who leads the Fire Protection Task Team for EPSG, mentioned commercial construction, staffing.

ORNL: Doug Freels discussed staffing (losing to programs), pressure safety and international standards (DOE-SC involved), major SNS expansion in design phase.

FY2022 Work Plan – Engineering Practices Subgroup (includes Fire Protection Task Team Activities)

Activity	Benefit(s)	Deliverable	Estimated Completion Date
Develop Best Practice for Implementing Configuration Management in a Building Information Model (BIM) environment	As technology advances in how facilities are designed, constructed, and operated, the traditional methods associated with engineering configuration management practices are challenged. This Best Practice will establish high-level guidance on how CM is conducted in a BIM environment while interfacing with traditional procedures/processes, business systems, organizational structures, and associated skill sets.	Publish Best Practice on providing guidance for how BIM interfaces with traditional CM procedures/processes, business systems, organization structures, and skill sets.	9/2022
Provide Constructive Feedback on Enhancements/Updates That Should be Considered in Next Revision of DOE-STD-1189-2016, <i>Integration of Safety Into the Design Process</i>	The experience of the engineering practices subgroup members in implementing this Standard may provide valuable insights for consideration in the next revision of this Standard.	Consolidated input from the EPSG regarding the potential improvements needed or items that should be considered in the next revision. Also, for this Standard, what Lessons Learned can be developed regarding the use of Appendix G, <i>Analysis of Potential Design Upgrades</i> , as a review of the Major Modification process.	7/2022
Provide Constructive Feedback on Enhancements/Updates that Should be Considered in Next Revision of DOE-STD-1066-2016, Fire Protection.	The experience of the engineering practices subgroup members in implementing this Standard may provide valuable insights for consideration in the next revision of this Standard.	Consolidated input from the EPSG regarding the potential improvements needed or items that should be considered in the next revision.	3/2022
Provide Constructive Feedback on Enhancements/Updates That Should be Considered in Next Revision of DOE-STD-3024-2011, Content of System Design Descriptions	The experience of the engineering practices subgroup members in implementing this Standard may provide valuable insights for consideration in the next revision of this Standard.	Consolidated input from the EPSG regarding the potential improvements needed or items that should be considered in the next revision.	6/2022