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| September EFCOG Fire Protection Task Team Meeting Minutes |
| 9.28.2016 | 12:00 MST | Skype Meeting / 505-844-5300 |
| Meeting called by | Julie Cordero, Chair |
| Type of meeting | Monthly Meeting |
| Facilitator | Julie Cordero |
| Note taker | Julie Cordero |
| Timekeeper | N/A |
| Attendees | Brian Sackett, Mark Rosenberger, Angela Brown, Rich Lewis, Josh Herrera, Alex Smith, Dan Graham, Rob Plonski, Allan Coutts, Chuck March, Ryan Lehnert, Jake Greenwell, Neal Hara, Virgil Rankin, Jose Nieves, Jon Gault, Charlie Kronvall, James Apida, James Collins |
| Action Item Review |
|  | Julie Cordero |
| Discussion | Status update |
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| Conclusions |  |
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| Action Items | Person Responsible | Deadline |
| Confirm membership of all individuals on distribution and provide non-members the option to join. Non-members not wishing to join will be removed from the distribution. | Julie Cordero | On-going |
| Reminder: Multiple documents have been posted to the Repository (i.e., Delegation of Authority Letters, Equivalencies and Exemptions, Applicability Matrices for DOE O 420.1C, DOE-STD-1066-2012 and DOE-STD-1020-2012,), [http://hqlnc.doe.gov/eh/Fire+Protection.nsf/hp?OpenForm](http://hqlnc.doe.gov/eh/Fire%2BProtection.nsf/hp?OpenForm). Login uses first and last name (e.g., Jane Doe). Verify member information is correct. Send Jim Bisker an e-mail at Jim.Bisker@hq.doe.gov so he can reset your password, if needed. | All | On-going |
| Volunteer for a joint-Contractor review effort of codes/standards. Note: Rich Lewis, Mike Cates, Darwin Damba, Frank Broidy and Virgil Rankin have already volunteered.  | All | On-going |
| Verify acceptability to share e-mail communication between Sharon Steel, Jim Bisker, David Compton and Julie Cordero regarding need/requirement to re-apply for an exemption when an Order is revisedStatus: No response received, thus this topic will not be pursued further. | N/A | N/A |
| Performance-Based Alternative for Visual Notification Device Heights |
|  | Josh Herrera |
| Discussion | NFPA 72 Performance-Based Alternative for visual notification devices |
| NFPA 72 references UL 1971, which provides calculations for determining acceptability of strobe heights that differ from prescriptive requirements. This alternative calculation may provide compliance for sites that have deficiencies related to incorrect mounting heights.Sandia has developed a spreadsheet that can be shared. |
| The UL 1971 reference (purchase price of ~$400) was used to develop a spreadsheet that only requires 3 dimensions to be entered in order to calculate a minimum strobe intensity needed to meet the requirements. The calculation is intended for wall mounted strobes that are located outside of their required height above the finished floor of 80-96 inches. It applies to visible and audible/visible combination devices. The calculation does not apply to ceiling mounted devices. |
| Conclusions |  |
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| Action Items | Person Responsible | Deadline |
| Post the NFPA 72 Performance-Based Alternative for Visual Notification Devices to the Repository and e-mail it to the EFCOG FP Task Team distribution. | Josh Herrera / Julie Cordero | 10/26/16 |
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| Container Fire Testing |
|  | Ray Sprankle |
| Discussion | NSR&D Container Fire Testing   |
| SRNS has efforts to establish a subcontract to perform fire tests of containers used by DOE facilities to handle or store SNM.  They are working to be able to test any container, from a small vial to a drum size, by subjecting them to bounding fire test conditions.  Often, it is necessary to select very high release fractions when considering robust pressurizable containers subjected to postulated fire conditions.  The goal is to provide an NQA-1 level technical basis for selecting reduced release fractions based on empirical knowledge of how/when they fail or even if they fail at all. SRNS is funded by DOE NSR&D to establish the subcontract, coordinate the testing over a 2-year period, gather all test results, and document the results in a form available for everyone in the complex. They do not have funding to actually perform the tests. They are now looking for DOE facilities with containers to test.  The request is for DOE facilities to develop a list of robust SNM containers for which empirical fire testing results may be useful.  The list will be coordinated throughout the complex to select containers and tests that are the greatest benefit to the widest user groups possible.    |
| Phase 1: develop the process and test criteria. Then each site can use the test criteria for their own testing needs (at an estimated 30% savings). |
| Conclusions |  |
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| Action Items | Person Responsible | Deadline |
| Provide a list of robust SNM containers for which empirical fire testing results may be useful. Send to Ray Sprankle, SRNS, N&CSE, Ray.Sprankle@srs.gov, 803-557-9470 or Rob Plonski, Robert.Plonski@srs.gov. | All | On-going |
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| Testing Fire Barriers and Penetrations |
|  | Mike Cates |
| Discussion | An INL FPE is interested in doing some benchmarking with other DOE sites. |
| Topic was tabled for next month. |
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| Conclusions |  |
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| DOE-STD-1066 RevCom Status |
|  | Jim Bisker / Julie Cordero  |
| Discussion | Response Negotiation PhaseMetrics Request |
| The Response Negotiation Phase is closed. There were ~50 pushback items that were being worked the week of 9/19/16. |
| SRS had comments. Chuck March spoke with Jim Bisker. A finalized package is expected this week. |
| Conclusions |  |
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| Meetings/Workshops |
|  | Charlie Kronvall/Julie Cordero  |
| Discussion | Safety Working Group Annual Work PlanUpcoming MeetingPresentations  |
| FP Goals in Safety Working Group Annual Work Plan deliverables/key milestones include:* Hold teleconferences and publish meeting minutes for up to 9 meetings.
* Conduct annual working meeting for Fire Protection Task Team.
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| Next EFCOG meeting will be in late April in DC. |
| Presentations from the Nuclear & Facility Safety Workshop at INL are posted at <https://anl.app.box.com/s/1872uk0zl69un4dhuj99853h6v1el8v4> |
| Charlie Kronvall is transitioning out of the Engineering Practices Subgroup Chair position and Cherri DeFigh-Price will be taking it on. |
| Conclusions |  |
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| Review of Proposed Topics for Future Meetings |
|  | Julie Cordero |
| Discussion | Proposed topics (from the Jan 2015 survey and others recommended via e-mail or at July meeting):* Review of Office of Enterprise Assessments Lessons Learned from Targeted Reviews of Fire Protection Programs at DOE Nuclear Facilities (8/7/15) recommendations for all sites across the DOE Complex, <http://energy.gov/ea/services/assessments/environment-safety-and-health-assessments/review-reports>
* Fire Safety & Evacuation Plans
* RCM (e.g., Fire Extinguishers)
* Gloveboxes (e.g., suppression options, utilization of non-combustible materials)
* Management of Combustible Loading (i.e., guidelines/thresholds, how combustible materials are quantified so that operations personnel can determine compliance with combustible loading requirements)
* Tritium Exit Signs (e.g., who uses them, replacement, disposal method)
* Fire Dynamics Simulator (e.g., who uses FDS, are results used to support a technical position or an engineering judgement)
* Chemical Management
* FPE Staffing Needs Analysis
* Halon Removal Efforts
* Program Performance Metrics
* Tenability Standards for Performance-Based Design
* Fact Sheet on Fire Protection Considerations with Green Building Design
* Innovative R&D
* NFPA 801 (i.e., limited combustible construction conflict with DOE-STD-1066)
* \*NEW: NFPA 13 Dry Pipe Systems – Nitrogen Systems
* Legacy Issues with Facilities that have an Unknown COR (e.g., Non-Compliance with NFPA Codes and Standards)
* 2015 NFPA 101, 13.7.6.1, requirements for crowd managers in Assembly Occupancies
* Positive Accountability for Evac Drills
* As-built Drawings
* VTR/SCIF Locksets
* IFC vs. NFPA vs. DOE-STD-1212 Maximum Allowable Quantities
* NFPA 72 communication modes for panels (Sec. 26.6.4.1.4) (Lead: Richard Lewis)

Topics discussed in past meetings:* Acceptance Testing of New Emergency Lights (i.e., post maintenance test requirement when emergency lights are replaced) [July 2015]
* Glycerin Anti-Freeze Change-Out [Oct 2015]
* Underground/Subterranean Facilities (Lead: John Kubicek) [Nov 2015]
* Review/documentation of newly published codes/standards for implementation [Dec 2015]
* AHJ Delegations & Impact on Contractors (Lead: John Saidi) [Mar 2016]
* ITM at Leased Facilities (Lead: Mike Cates) [May 2016]
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| Conclusions |  |
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| Additional Discussion Items |
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| Discussion | Multiple topics were discussed.  |
| Joint-Contractor Review Effort of Codes/Standards:No new updates. Rich plans to engage others at his site in the near future.Approved Equivalency for Fire Extinguisher monthly |
| Approved Equivalency for Fire Extinguisher monthly inspections:David Greer, Y-12, is working on an equivalency and would like to review the INL equivalency. |
| Fire Extinguishers in Vehicle Cabs or Exterior on Vehicles:Sandia was interested to know if other sites had any issues with mounting fire extinguishers inside vehicle cabs or on the exterior of vehicles. A concern was raised recently about the temperatures these fire extinguishers are exposed to. No data had been found to substantiate. Several other sites confirmed that fire extinguishers were mounted in these locations with no concerns.  |
| Hanford ITM Standard:James Collins discussed an ITM Standards document that Hanford has developed. It contains a crosswalk of all ITM code requirements. It is ~100 pages long. He envisions that other sites could reference a similar master document for their Fire Protection Programs and then incorporate site-specific content. The document is expected to be available for sharing in the near future.  |
| PNNL Job Posting:PNNL has an open job posting for an FPE. Julie Cordero will send the posting out to the EFCOG FP Task Team distribution.Approved Equivalency for Fire Extinguisher monthly |
| NFPA Main Drain Test – Valve Status Test:New in the 2017 NFPA 25: **13.3.3.4**\* A valve status test shall be conducted any time thecontrol valve is closed and reopened at system riser.**A.13.3.3.4** See the NFPA 25 handbook, Water-Based Fire ProtectionSystems Handbook, for additional guidance relative to potentialprocedures for the conduct of such testing.If valve is partially open, flow may not identify an issue. SRS may conduct testing (i.e., to determine how far a valve needs to be closed before a difference is noticed).Chuck March looked at this ~25 years ago. In order to be useful, the main drain test values must be compared to previous test values.  |
| SFPE Guide for Data Analysis or Reliability-Centered Maintenance (RCM):James Collins was interested to know if anyone had reviewed the SFPE Guide. SRS and LANL confirmed they have. Reviewed frequency of failure (e.g., emergency lighting, fire extinguishers).James Apida stated that NFPA was looking for data to calculate failure rates (based on a presentation at the NFPA Conference this year). The City of Boston has used this approach.Info is available on the NFPA Sandbox. |
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| Follow up with INL POCs to get a copy of the INL Equivalency for fire extinguisher ITM and distribute to EFCOG FP Task Team distribution. | Julie Cordero | 10/26/16 |
| Send Hanford’s ITM Standards document to the EFCOG FP Task Team distribution. | James Collins | TBD |
| Send PNNL Job Posting out to the EFCOG FP Task Team distribution. | Julie Cordero | Completed 9/28/16 |
| Reach out to the NFPA POC regarding the call for data to calculate failure ratesStatus: an e-mail inquiry sent to sandbox@nfpa.org; response is pending | Julie Cordero | 10/26/16 |