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| July EFCOG Fire Protection Task Team Meeting Minutes |
| 7.26.2017 | 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 | Mike Cates, Jake Greenwell, Alex Smith, Randy Lanham, Will Cosey, Allan Coutts, Jim Bisker, Brian Sackett, Nolan Baker, Tomas Sanchez, Brett Kujath, Darwin Damba, Stephen Angell, Kyle Morrison, Harvey Goranson, Tom Allison, Josh Herrera, Frank Broidy |
| Action Item Review |
|  | Julie Cordero |
| Action Items | Person Responsible | Deadline / Status |
| Confirm EFCOG membership and POC info. (refer to e-mail from Julie Cordero on 7/19/17)Note: Non-members are encouraged to join, otherwise they will be removed from the distribution in the near future. | All | 8/18/17 |
| 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, NFS-16 presentations), [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 is the POC  | All | On-going |
| 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 |
| Send Hanford’s ITM Standards document to the EFCOG FP Task Team distribution.Status: James Collins left Hanford, and new POCs have been contacted via e-mail on 2/22/17. | Adam Moldovan or Coby Sadler | TBD |
| Reach out to the NFPA POC regarding the call for data to calculate failure ratesStatus: an e-mail inquiry was sent to sandbox@nfpa.org on 9/28/16 and a follow-up on 2/21/17; response is pending | Julie Cordero | TBD |
| Provide government-owned vs. government-leased info to Jessy Innocent | Julie Cordero | Completed on 7/26/17 |
| Review HPR draft and provide comments to David Greer (experienced and new hire staff) | All | 7/31/17 |
| Volunteer to arbitrate HPR comments | TBD | 7/31/17 |
| Send out latest draft of FAQs | Jim Bisker/Julie Cordero | Completed on 6/20/17 |
| Review and provide comments on DRAFT FAQsNote: Send to Jim Bisker and copy Julie Cordero OR send to Julie Cordero for roll-up and transmittal to Jim Bisker | All | 7/31/17 |
| Send out the latest DOE O 420.1C Chg 2 | Jim Bisker | Completed on 7/5/17 |
| Volunteer to be on a Task Team  | All | On-going  |
| Send list of team members for Annual Fire Protection Summary | Jim Bisker | Completed on 6/28/17 |
| Joint-Contractor Review Effort of Codes/Standards |
|  | Tom Allison |
| Discussion | Status Update |
| 13 sites participated; 11 responded and 2 are pending* Sandia review is pending; delayed due to a medical absence

Next steps: * A list of ~200 codes/standards reviews will be scheduled and assigned between participating sites
* Reviews will be posted on the EFCOG website
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| Action Items | Person Responsible | Deadline |
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| STD-1066-2016 FAQ’s |
|  | Julie Cordero  |
| Discussion | Status |
| Several sites have submitted proposed new FAQs and proposed responses (see attached). Fire Hazards Analysis. (3) new facilities or modifications to existing facilities **with value greater than** $167 million….* Per Jim Bisker, the **value** is the building value (i.e., RPV obtained from FIMS) plus the content value (e.g., PIDS); previously, the Annual Summary included total valuation and data was obtained from FIMS and PIDS; PIDS was going down a path of being consolidated, but Jim does not know the current status. POC for the Annual Summary is Larry Stirling.
* Per Mike Cates, INL uses a DOE Property Management Report which includes the replacement cost and content values.
* Per Julie Cordero, Sandia’s internal Property Management department tracks equipment with an acquisition value of $10,000 or greater and attractive items (e.g., smartphones, cameras, computers, etc.) regardless of value; reports can be generated for each facility.
* Several sites indicated they were not aware of PIDS.

**When required**, a fire alarm system shall be provided….* The “When required” was dropped in the 2016 version (Sec 4.2.8.1.2)
* Y-12 submitted a RevCom comment to retain the 2012 version “Where required” language. The comment was accepted, however, the change was not made.
* As currently written, every small building would require a fire alarm system even if NFPA 101 or IBC didn’t require it.
* Jim Bisker suggested submitted an equivalency to the local Field Office so that a fire alarm system could be excluded from certain facilities; however, several sites indicated that submitting equivalencies requires engagement of all levels of management and could take months (i.e., not a good use of taxpayer dollars when the issue could simply be addressed with an FAQ).
* At INL, the delegation letter allows the Contractor AHJ to approve STD-1066 equivalencies for non-nuclear facilities; at most other sites, this is not the case

A.3.1.1.2 **For enduring missions**, a **new**…..water supply system shall be provided.* Appendix A states it is for new construction and major modifications to existing facilities; the citation above appears to contradict the scope of Appendix A.
* Per Jim Bisker, the Appendix A scope would allow for an existing water supply on a facility with an enduring mission to remain without a new water supply required.

Fire Protection Design Analysis (FPDA) is defined in section 1.4. Is the FPDA a process, a document, or both?* Tom Allison discussed with Jim Bisker previously and captured what he believes is the intent
* Per Jim Bisker, the proposed response appears accurate; however, this may not make it as an FAQ (see below regarding proposed ‘interpretations’)

Which Maximum Allowable Quantity (MAQ) is dominant and how is it applied to existing buildings* 1066 states NFPA 1 and 400 are applicable. Both contain MAQs that differ from IBC. Since IBC is not mentioned here as applicable, NFPA takes precedence over IBC.
* MAQs are very similar in NFPA and IBC/IFC with a few exceptions (i.e., explosive MAQs); Jim Bisker thinks that it was previously documented somewhere in an Order/Standard that the specific requirements (e.g., STD-1212) take precedence.
* Refer to current FAQ #2 which addresses Operational provisions (applicable to MAQs) and how they should be evaluated and implemented “to the extent practicable”. Thus, not requiring compliance with MAQs in newer code editions.

Facilities that have ceased operations and are……surveillance mode, pending….D&D or full abandonment….. Can or should a TFHA be used?* Per Jim Bisker, this may also not make it as an FAQ (see below regarding proposed ‘interpretations’)

Jim Bisker stated that FAQs should be minimal and perhaps a set of ‘interpretations’ could be generated, with Pranab Guha’s approval. * The FAQs go to the Tech Standards Program
* The Interpretations are best suited to be documented and posted on the DOE Repository
* Numerous other items were submitted by SRS to Jim Bisker that may be appropriate as ‘interpretations’

A list of other items was submitted by SRS (see attached); not discussed during the meeting. |
| Action Items | Person Responsible | Deadline |
| Contact Larry Stirling for information on PIDS or its replacement Status: Julie Cordero sent an e-mail on 7/26/17 to Larry Stirling concerning PIDS.  | Julie Cordero | 8/23/17 |
| Determine POC for DOE Property Management Report | Mike Cates | 8/23/17 |
| Obtain approval from Pranab Guha to post Interpretations (for those items that are not selected as FAQs and for those items that Jim Bisker provides interpretations to on a case-by-case basis) on the DOE Repository | Jim Bisker | 8/23/17 |

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| Task Teams |
|  | Julie Cordero |
| Discussion | Status |
| New Task Teams:* Annual Fire Protection Summary (Lead: Jim Bisker; Team Members: Kyle Morrison, Dale West, Andy Minister, Bernie Till, John Saidi, Robert Nii, David Greer, Brett Kujath, Sharon Steele, Paul Smith)
* Additive Manufacturing/3D Printing (Lead: Dino Pierucci, SRS; Team Members: Tom Christman, Shay Massey, Rob Plonski, Tomas Sanchez and Ralph Clayton)
* Water Mist Systems (Lead: Eric Johnson, SRS; Team Members: Rob Plonski, Tom Allison, Jason Butler, Rob Hanson, Tomas Sanchez, Frank Broidy Ralph Clayton and David Payne). Note: Frank Broidy sits on the NFPA 770, *Hybrid (Water and Inert Gas) Fire Extinguishing Systems*, Technical Committee. It is a new Code in the draft phase and will be published in ~1 ½ years. Frank has shared the draft with this task team for comments.

Proposed Future Task Teams:* Reliability Centered Maintenance Concepts (Rich Lewis)
* Program Health Report (Dave Greer, Rich Lewis, Julie Cordero)
* Self-Assessments
* Glovebox Suppression (Tom Allison)
* Lithium Battery Management (Will Cosey)
* Graded Approach for Order and STD (Dave Tomecek)
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| Action Items | Person Responsible | Deadline |
| Submit comments on draft NFPA 770 to Rob Plonski | Water Mist Systems Task Team | 7/31/17 |
| Fire Extinguisher Data |
|  | Julie Cordero |
| Discussion | Cherri DeFigh-Price, Chair of the Engineering Practices Subgroup, socialized the topic of complex-wide savings that could be realized if the monthly fire extinguisher inspection frequency were reduced from monthly to quarterly.  It was well received and she’d like for us to collect data on the number of fire extinguishers at each site.  We can then estimate the potential savings. It is a starting point for justifying a variance to 10CFR851.  |
| It is recognized that not all sites want to deviate from the monthly inspection requirement.A request for data was e-mailed on 7/11/17. A response was requested by 7/24/17. Information will be compiled and shared. |
| Action Items | Person Responsible | Deadline |
| Compile and share fire extinguisher data for each site (number, cost for performing monthly inspections) | Julie Cordero | 8/23/17 |
| Additional Discussion Items |
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| Discussion | Taryn Couchman-Cates is working on changes to STD-1212 with regard to life safety requirements  |
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| Action Items | Person Responsible | Deadline |
| Contact Taryn Couchman-Cates and ask for an update at the next EFCOG FP Task Team MeetingStatus: Taryn will provide a status at the September Meeting | Julie Cordero | Completed on 7/26/17 |

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| Review of Proposed Topics for Future Meetings |
|  | Julie Cordero |
| Discussion | Proposed topics (from the Jan 2015 survey, requests to Chair via e-mail, meetings):* 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
* 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
* 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]
* NFPA 72 PB Alternative for Visual Notification Device Heights (Lead: Josh Herrera) [Sept 2016]
* Container Fire Testing (Lead: Ray Sprankle) [Sept 2016]
* RCM (e.g., Fire Extinguishers) [Oct 2016]
* Testing Fire Barriers and Penetrations [Oct 2016]
* FPE Staffing Needs Analysis [Oct 2016]
* HPR [Nov 2016]
* Fire Safety Committee [Jan 2017]
* Gloveboxes (e.g., suppression options) [Feb 2017]
* NFPA 801 (proposed changes) [Mar 2017]
* Fire Extinguisher ITM [May 2017]
* Mitigation for removed ceiling tiles during construction [June 2017]
* STD-1066 FAQs
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| Conclusions |  |
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| Action Items | Person Responsible | Deadline |
| E-mail proposed topics to Julie Cordero with a reference to “EFCOG” in the Subject Line | All | On-going |
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