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| June EFCOG Fire Protection Task Team Meeting Minutes |
| 6.28.2017 | 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 | Alex Smith, Brian Sackett, Rich Lewis, Stephen Angell, Josh Herrera, Jim Bisker, Dave Greer, Darwin Damba, Erwin Debla (?), Hank Kloeckler, Angela Brown, Mike Brock, Ryan Lehnert, Kevin Levy, Daniel Garcia, Nolan Baker, Tomas Sanchez, Allan Coutts, Juan Molinar, Randy Lanham, Tom Allison |
| Action Item Review |
|  | Julie Cordero |
| Action Items | Person Responsible | Deadline / Status |
| 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, 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 |
| Send out SME list for review | Julie Cordero | 7/26/17 |
| Validate SME list  | All | TBD |
| Provide government-owned vs. government-leased info to Jessy Innocent | Julie Cordero | 7/26/17 |
| Joint-Contractor Review Effort of Codes/Standards |
|  | Rich Lewis |
| Discussion | Status Update |
| Pilot is complete* Several contractors submitted reviews, and they look good.
* A few reviews are still pending.
* One site can no longer commit to the effort.

Ready for implementation* List of next set of codes/standards is being put together.
* 2-3 month timeframe for each rounds is anticipated.
* 4-5 reviews/year/site.

Feedback from one site:* Adobe Pro is needed so the review process is efficient.
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| Action Items | Person Responsible | Deadline |
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| Highly Protected Risk (HPR) |
|  | Dave Greer |
| Discussion | Status on “HPR” Whitepaper |
| Draft is ready for review by the larger audience. Comments are requested by both the experienced and new hire perspectives.Has any thought been given to take this outside (e.g. as an NFPA article?)This could become an EFCOG Best Practice and then be considered for incorporation into DOE-STD-1066. |
| Action Items | Person Responsible | Deadline |
| Review draft and provide comments to David Greer (experienced and new hire staff) | All | 7/31/17 |
| Volunteer to arbitrate comments | TBD | 7/31/17 |
| Send to list serve distribution | Jim Bisker | Complete – 6/28/17 |
| DOE O 420.1C Chg 2 & STD-1066-2016 |
|  | Jim Bisker  |
| Discussion | Status |
| Draft FAQs status* Some were eliminated
* Others were added
* Once they are put on the TSP website, they are difficult to change

Subterranean facilities* Clarification to Order has been added as a footnote which points to STD-1066 for subterranean protection thresholds

DOE Order 421.1C Chg 2* Feedback (not Comments) are welcome
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| Action Items | Person Responsible | Deadline |
| Send out latest draft of FAQs | Jim Bisker/Julie Cordero | ASAP |
| Review and provide comments on DRAFT FAQs | All | 7/31/17 |
| Send out the latest DOE O 420.1C Chg 2 | Jim Bisker | ASAP |
| Task Teams |
|  | Julie Cordero |
| Discussion |  |
| New Task Teams:* Annual Fire Protection Summary (Lead: Jim Bisker)
* 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, Tomas Sanchez, Frank Broidy, and Ralph Clayton)

Proposed Future Task Teams:* Reliability Centered Maintenance Concepts
* Program Health Report
* 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 |
| Volunteer to be on a Task Team  | All | On-going  |
| Send list of team members for Annual Fire Protection Summary | Jim Bisker | 7/26/17 |

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| Mitigation for Missing Ceiling Tiles |
|  | Josh Herrera |
| Discussion | What mitigation strategies are sites using when ceiling tiles are removed (e.g., during a construction project)? |
| At Sandia, various strategies have been used in the past (e.g., replacing ceiling tiles at the end of each day, requiring a fire watch, utilizing a fire retardant plastic as a false ceiling, installing a sprinkler system at the deck). There has been recent pushback.Tom Allison (SRS): Rob Hanson is performing fire modeling to determine the size of an open gap to define an impairment. Currently, a welding curtain is used around small openings and combustibles are prohibited within the area (in lieu of a fire watch). 1 missing ceiling tile constitutes an impairment which requires a fire watch or fire patrol. |
| Action Items | Person Responsible | Deadline |
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| Hot Work Stop Criteria for Roof Operations |
|  | Josh |
| Discussion | What criteria are sites using to stop hot work operations on roofs?Is the use of a heat gun considered hot work? |
| At Sandia, current criteria used to stop roof hot work operations is wind > 25 mph or a Red Flag Warning. Utilizing a heat gun is considered hot work. However, recent projects have been impacted due to Red Flag Warnings. Some of the impacted areas are not areas where wildland fire is a risk. Thus, the criteria are being re-evaluated.Tom Allison (SRS): Open flame on roofs is considered hot work. Heat gun usage is not considered hot work.  |
| Action Items | Person Responsible | Deadline |
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| Additional Discussion Items |
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| Discussion | Teflon used on sprinkler headsHot Work – IH issue |
| Tom Allison: Has anyone heard of Teflon being used on sprinkler heads? Teflon does not perform well in radioactive environments. * Nobody had information to provide

Kevin Levy: Lesson learned when IH was looking for NO and NO2 on plasma cutting operations and the mobile HEPA system was not providing enough ventilation. Masks are available for use to protect the workers. |
| Action Items | Person Responsible | Deadline |
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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]
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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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