

EPWOG Fire Protection Subgroup
Telecon Meeting Minutes, November 21, 2006

A telephone conference call was conducted on November 21, 2006 from 1100 until approximately 1300 Mountain Time with fire protection personnel from Department of Energy (DOE) sites across the country. The purpose of the call was to wrap up CY2006 subgroup initiatives and identify potential initiatives for CY2007. Technical difficulties were encountered and limited the number of connections available for discussion. Accordingly, several sites attempted, but were unable to participate. Participants are listed at the end of these minutes.

The following Action Items were identified in the course of teleconference business:

- A. Flour Hanford volunteered to distribute the list of fire department related NFPA codes and standards they have identified as applicable to 10 CFR 851 implementation. Send to Eric Gosswiller for distribution (**Kobelski**)
- B. Distribute list of NFPA Technical Committee Members for review and update. Update to be posted on subgroup webpage. (**Gosswiller**)
- C. Provide Perry D'Antonio with any site specific inspection, testing and maintenance equivalencies or related information (**all**)
- D. Schedule and prepare agenda for teleconference call on January 16, 2007 (**Gosswiller**)

AGENDA COVERED

Time (PM MST)	Activity
11:00	Assemble
11:00-11:10	Welcome/Introductions
11:10 -12:15	Round table discussion on status of 10 CFR 851 planning at participating Sites
12:15-12:45	Open discussion and selection of CY2007 Subgroup Initiatives
12:50	Close

MINUTES

The following minutes recap the agenda items covered:

1. Welcome/Introductions

Everyone was announced and welcomed as they entered the conference call. Eric Gosswiller reviewed the list of participants prior to starting the conference. Participation was limited due to technical difficulties limiting the number of available conference call connections. The agenda was then reviewed.

2. Wrap up of CY2006 Initiatives

The conference participants were encouraged to share information regarding their 10 CFR 851 implementation activities. The following sites provided a brief discussion of their planning activities:

Hanford	Sandia National Lab
INL	Lawrence Berkley National Lab
Kansas City Plant	

The area reports can be summarized as follows:

- a. Fluor Hanford: Rich Kobelski and Rex Jordan discussed 10 CFR 851 efforts underway at Hanford. Rex identified that their focus is on the fire department service area and that other Site organizations are handling the balance of functional area written program requirements.

They have focused on the identification of specific NFPA codes and standards that directly affect firefighter safety and health. Hanford will make the list of identified 10 CFR 831 applicable fire department NFPA codes and standards available to the group (**Action**).

- b. INL: Eric Gosswiller provided the following information:
- Written program procedures have been drafted and submitted to field office for preliminary review. FP procedure reflects a rolldown of DOE O 420.1B comprehensive program criteria.
 - Have completed procedural gap analysis. Most significant gap is the need to submit updated fire department baseline needs assessment.
 - In process of completing compliance gap analysis. Reviewing existing identified deficiency reports, FHAs, etc. Most notable gaps include inadequate electrical AHJ program and emergency medical service response times relative to NFPA 1710 criteria. Planning to implement AED program to address issue.
 - Have reviewed existing exemptions and concluded that none meet the definition of a 10 CFR 851 variance.
- c. SNL: Perry D'Antonio provided the following information:
- Fire protection written program document has been drafted and reviewed
 - SNL has identified gaps associated with implementing the administrative processes of the International Building Code (building official, permitting, plans review, etc) and is developing an associated process.
 - Struggling with identification of mandatory standards (e.g. ICodes vs. NFPA). Facilities in multiple jurisdictions compounds issue.
 - Conducting comprehensive inspection, testing and maintenance program analysis that includes review of Factory Mutual, DOE, DOD, NFPA frequency criteria. Goal is to glean best practices, reliability centered program.
- Perry also discussed additional initiatives underway at SNL, most notably, the development of a graded process to fulfill the building fire assessment criteria of DOE O 420.1B (e.g. inspection forms vs. comprehensive assessment documents for less significant facilities).
- d. Kansas City Plant: Bob Bitter provided the following information:
- Written program document has been completed.
 - Gap analysis included a focus on the review of FHAs to identify deficiencies that have clear worker safety and health impact. Once identified, applicable deficiencies were categorized (e.g. de minimus, reportable) in order to define and prioritize corrective action.
 - Effort is expected to result in documentation of additional equivalencies, and potentially, one or two variance requests.
- e. Lawrence Berkley: Gary Piermattei discussed LBNL planning activities. In general, LBNL intends to credit existing fire protection program documentation (Chapter 12) as the written program. This resulted in group discussion regarding associated potential program management impacts. It was concluded that to the extent feasible, Sites should avoid subjecting their detailed implementing procedures and process to the written 10 CFR 851 program and associated DOE review and approval criteria.

The balance of the CY2006 initiative were also discussed and dispositioned as follows:

- a. Provide input to DOE-HQ on revision to the 420.1B Implementation Guide:
Complete.
- b. NFPA Committee member interface:
Many EFCOG member organizations are represented on various NFPA technical committees. A list is posted on the subgroup website. Eric Gosswiller encouraged the group to facilitate the two way sharing of issues and information that would benefit the EFCOG fire protection community. Eric will issue a request for update of the NFPA technical committee member list (**Action**).
- c. Resource Library:
There was no subgroup activity on this initiative during CY2006. The group concluded that this is a worthwhile initiative to carry forward. It will be expanded to include the development of a fire hazards analysis "tool box". See CY2007 initiative.
- d. Develop a list of equivalencies/exemptions that might be of benefit to other Sites considering similar actions:
There was no subgroup activity on this initiative during CY2006. It was not identified as CY2007 initiative and will not be carried forward.

3. Identification of CY2007 Fire Protection Subgroup Initiatives

Approximately 45 minutes was allotted for identification of candidate CY2007 subgroup initiatives. Nine candidates were identified and discussed, of which six were selected and identified for action.

The nine candidate initiatives can be summarized as follows:

- Benchmarking of fire protection Authority Having Jurisdiction provisions at the represented Sites. This initiative is also being addressed by the Engineering Practices Working Group. Fire Protection subgroup efforts would directly contribute to the larger EPWOG initiative.
- Develop updated, comprehensive, Fire Protection Systems and Equipment Inspection, Testing, and Maintenance Frequency recommendations.
- Review and draft update to DOE-HDBK-1081-94, Primer on Spontaneous Heating and Pyrophoricity (Sponsor Recommendation)
- Standardized Verification/Validation of hydraulic calculation software.
- Benchmarking of fire barrier penetration seal configuration management data base practices.
- Development of position paper on required design basis documentation for legacy pipe schedule designed sprinkler systems
- Development of Fire Hazards Analysis Toolbox (e.g. posting of mutually benefiting fire test reports, extent of contamination methodologies, clean up cost estimation methodologies, etc).
- Benchmarking of Site fire protection design criteria (e.g. ICodes vs. NFPA)
- Benchmarking of Site program requirements for building fire safety assessments with emphasis on graded approach provisions

The following activities received group consensus to carry forward as CY2007 Fire Protection Subgroup initiatives:

- a. Benchmarking of fire protection Authority Having Jurisdiction provisions at the represented Sites. This initiative is also being addressed by the Engineering Practices Working Group. Fire Protection subgroup efforts would directly contribute to the larger EPWOG initiative. Completion of this initiative will be demonstrated through a matrix that identifies the AHJ practices at participating Sites.

Eric Gosswiller will distribute a draft template for review and comment in January (**Action**)

- b. Benchmarking of fire barrier penetration seal configuration management data base practices. A template will be developed and distributed to gather Site specific practices.
- c. Benchmarking of Site fire protection design criteria (e.g. ICodes vs. NFPA). A template will be developed and distributed to gather Site specific criteria. (**Action**)
- d. Benchmarking of Site program requirements for building fire safety assessments with emphasis on graded approach provisions. A template will be developed and distributed to gather Site specific practices.
- e. Develop an updated, comprehensive, Fire Protection Systems and Equipment Inspection, Testing, and Maintenance Frequency recommendations. NFPA, FM, and historical DOE and DOD guidance on NFPA 25 and NFPA 72 will be considered. Completion of this initiative will be demonstrated through a white paper or report that reflects consensus recommended inspection, testing and maintenance frequencies. The subgroup will then coordinate with DOE on the potential publication as a guide, report, equivalency, or similar publication.

Perry D'Antonio has a related effort underway at SNL and volunteered to lead. The SNL effort will represent the initial product for consideration by the subgroup. It is anticipated that Perry will have something ready for subgroup action in the April time frame. Sites are encouraged to send Perry any related program documentation/equivalencies. (**Action**)

- f. Develop and post a Fire Hazards Analysis Toolbox. Sites will evaluate and contribute tools and references that would benefit the member organizations in the execution of Fire Hazards Analysis. Potential candidates include fire test reports, extent of contamination methodologies, clean up cost estimation methodologies, etc. The subgroup will coordinate with DOE to identify appropriate posting platform.

4. New Business: Schedule and Agenda for Next Conference Call

The next teleconference was tentatively scheduled for January 16, 2007 from 1100 to 1300 MST. Draft agenda will be distributed the first week of January. (**Action**)

Telecon Participants

From Subgroup Member Directory

Robert Bitter	KCP
Rich Kobelski	Flour Hanford
Roy Nelson	INL
Gary Piermattei	LBNL
Jeff Hancock	Pantex
Brian Rhodes	Pantex
Perry D'Antonio	Sandia National Laboratory
Eric Gosswiller	INL