



Emergency Management Issues (EMI)
Special Interest Group (SIG)

Highlights

HAZARDS ASSESSMENT SUBCOMMITTEE TELECONFERENCE 06-02
WEDNESDAY, October 18, 2006; 2:00 Eastern Time

Participants:

Larry Campbell, Hanford
Jeng Cheng, NA-41
Dorothy Cohen, ORISE
Bob Cornish, OST
Jerry Gibeault, INL
John Harris, DOE/OR
Ricky Honaker, NSO
Jim Jamison, SAIC
Jeff Long, ORNL, Co-Chairman
Pete Matonis, INL
Mike O’Keeffe, NTS
Shana Peterson, BWXT/Y-12
Bill Possidente, NTS
Jim Powers, NA-41
Chuck Rives, Pantex, Chairman
Brad Salmonson, INL

Teleconference Highlights

I. Roll Call

Chuck Rives conducted a roll call and acknowledged that 16 individuals from seven DOE/NNSA locations, involved with the Hazards Assessment Subcommittee (HAS) were present.

II. Administrative Matters

There were no administrative matters to discuss.

III. Action Items

Chuck Rives and Jeff Long led a discussion on action items.



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AI 06-01: During a previous teleconference, Chuck Rives discussed the power point presentation on consequence assessment that he placed on the HAS list server January 10, 2006. He received a large number of comments and incorporated many of them into the presentation. He recently sent out a second draft for review and comment. Carl Mazzola assured him that both SCAPA and DMCC will be included in this review cycle. The goal is to make this an HAS product to be used by all DOE/NNSA sites. The target audience is professionals with minimal background in the technical topic. **ACTIVITY PROCEEDING.**

AI 06-02: During the last teleconference, Chuck Rives discussed another product, a crosswalk of all hazards assessment interfaces with the December 20, 2005 draft Emergency Management Guides (EMGs). This is to be a quick reference document for identifying customer expectations. Each element in the crosswalk will contain a statement describing an action that needs to be performed. Chuck divided the EMGs among various HAS members including Wayne Davis, Michele Baker, Carl Mazzola, Jeff Long, Jerry Gibeault, Bob Cornish, and others. Chuck will call Diane Standovich (LANL) and Susan Vosburg (SNL) to see if they would like to participate in this effort. Chuck led a discussion about the usefulness of this product which is about 75% complete.

AI 06-03: During the last conference call, Jeff Long asked whether any HAS members had previously addressed the hazards assessment screening of water treatment chemicals that exceeded the 5-gallon threshold quantity. At ORNL, they are having trouble screening out some of the water treatment chemicals that are in 250- to 500-gallon containers. These include sodium hydroxide, ammonium bisulfite, and ammonium bisulfate. DOE/OR did not concur with the commercially available product screening criterion due to the large quantities in which they are packaged. Wayne Davis suggested that Jeff look at the partial pressure of 1 mm Hg as a screening criterion since most of these chemicals have low vapor pressures. Jeff mentioned that he has done this, but some bromide compounds have vapor pressures that are too high to be screened out. Another approach is to calculate the Material at Risk (MAR) to yield a relatively small gaseous release source term and multiply by relative concentration (i.e., χ/Q). Mike O'Keeffe suggested that ORNL either reduce the quantity or use a surrogate product and also suggested the use of a chemical reactivity worksheet. Brad Salmonson stated that at INL they approach it by addressing the behavior of dissolved materials. Jeff asked HAS members to offer additional suggestions through the list serve. **ACTIVITY PROCEEDING.**



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AI 06-04: During the last conference call, Wayne Davis shared that he and five other professionals are in the process of evaluating the HOTSPOT code for inclusion into the DOE Central Registry toolbox as a safe harbor code. A questionnaire has been developed on HOTSPOT usage which will be sent to several user groups including the HAS. No update was provided on this item. **ACTIVITY PROCEEDING.**

IV. New Business

Mike O'Keefe asked a question regarding dose conversion factors—whether it is appropriate to your FTR-11 or FTR-13. The consensus seemed to be that FTR-13 is used for public exposures. Sites have the latitude to determine what value to use based on their specific needs. A critical aspect of the decision is the target audience.

Larry Campbell asked whether any of the other sites store spent fuel outside. INL has some experience but with no Alert level classification involved. The EMGs recommend EPA I50 but it seems unclear as to how to apply it. The appropriate reference is accepted evaporation calculations.

V. Round Robin Discussion

Chuck Rives led the round robin discussion:

Hanford: a Team of 41 persons spent two weeks looking at various aspects of emergency preparedness. One EP issue identified relating to spectrum of events—no attention to middle of the spectrum. Overall EP was above expected. The site is continuing to update hazards surveys and hazards assessments.

ORNL: Jeff Long reported that at ORNL, they are revising all hazards survey. Completed four at the end of the fiscal year; expect to complete the other four by the end of the calendar year.

ORO: John Harris reported the ETPP had completed its full-scale exercise earlier in the day, and it was very successful.



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NTS: Mike O'Keefe reported that they had completed their hazards survey and hazards assessment process document.

INL: Jerry Gibeault indicated that the site is in the process of developing procedures for hazards surveys and assessments.

OST: Bob Cornish indicated that OST is working on process document for hazards surveys and hazards assessments.

NTS: Mike O'Keefe stated that at NTS, they are in the process of developing a technical basis for hazards screening.

Y-12: Shana Peterson reported that Y-12 is continuing updates to their hazards surveys, hazards assessments, and emergency action levels. They are also in the middle of the fall accountability drills and trying to get a new emergency plan approved.

VI. Next HAS Conference Call

Chuck Rives indicated that the next HAS conference call has been scheduled for **Wednesday, December 13, 2006 at 2:00 pm EDT.**

VII. Adjournment

The teleconference was adjourned at **2:55 p.m. EDT.** Chuck and Jeff thanked everyone for their time and their contributions.

VIII. HAS Action Item (AI) Status

The color-coding system used in the teleconference highlights are as follows:

- Existing AIs that are not closed are colored green;
- New AIs are colored yellow; and,
- AIs to be closed are colored blue.