



Emergency Management Issues (EMI)
Subcommittee on Consequence Assessment
and Protective Actions (SCAPA)
Source Term Working Group (STWG)

Highlights

SOURCE TERM WORKING GROUP (STWG)

TELECONFERENCE 08-01

TUESDAY December 16, 2008; 1:00 PM EST/Noon CST/11:00 AM MST/10:00 AM PST

Participants:

Denny Armstrong, WSMS

Wayne Davis, WSMS

April Javilakis, WSMS Mid-America

Carl Mazzola, Shaw Environmental

Michele Wolfgram, WSMS Mid-America

Gerry Gibeault, INL

Courtney Haggard, WSMS Mid-America

Steve Luckett, NA-41

Brenda Pobanz, LLNL NARAC

Meeting Highlights

I. Roll Call

Carl Mazzola conducted a roll call and acknowledged that nine (9) individuals were present. Several other professionals attempted to join the call but were unable to due to conference line issues.

II. Discussion

Michele Wolfgram led the discussion which included the following topics:

1. **DOE TRU Standard (DOE STD-5506):** At the May 6, 2008 STWG meeting in Reston, VA, Michele Wolfgram discussed the recently issued DOE STD-5506 that is used for transuranic (TRU) waste assessments. Since the standard contains guidance on the calculation of Damage Ratios (DRs) and Leak Protection factors (LPFs), Michele thought that it may be applicable to other applications including EPHAs. During this teleconference, Michele mentioned that the DOE-HDBK-3010 does not contain enough information to calculate DR and that DOE-STD-5506 may possibly be used to fill that technical gap. Michele suggested that a White Paper be developed as to when DOE-STD-5506 should be used for Emergency Preparedness Hazard Assessment (EPHA) preparation by January 31, 2009 (**STWG AI 08-01**).

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2. **Non-radiological vs. Radiological Health Effects:** At the May 6, 2008 STWG meeting Jim Jamison discussed EPHA development for non-radiological hazards associated with TRU waste and several DOE site professionals offered various opinions. During this teleconference, Wayne Davis indicated that SRS screens liquid non-radiological hazardous waste with TRU waste, and that it is important to look at the chemical hazardous components, especially in the case of soluble uranium compounds, where radiotoxicity does not dominate chemical toxicity. It is not clear as to in what instances, do both chemical and radiological toxicity have to be considered and where the threshold of greater hazard actually is between the two hazards. Human health effects for radiotoxicity (e.g., ICRP 68/72) and AEGLs/ERPGs/TEELs for chemical toxicity would have to somehow be compared, perhaps through effects on certain target organs. At SRS, radiological toxicity is treated by Nuclear Regulatory Commission (NRC) guidance and chemical toxicity is treated by Environmental Protection Agency (EPA) Risk Management Plan (RMP) guidance. Wayne Davis then asked if there could be screening due to low dispersability and also shared concern that National Fire Protection Association (NFPA) Health Hazard Ratings (HHRs) were inconsistent. After additional discussion, it became clear that the larger issue is that the Energy Facilities Contractor Group (EFCOG) Safety Analysis Working Group (SAWG) is looking to SCAPA to provide guidance on implementation of chemical hazards for 10 CFR 830 Documented Safety Analyses (DSAs) per DOE-STD-1189 Appendix B. Michele and Wayne will work to define the problem and develop a work plan towards its solution (**STWG AI 08-02**).
3. **Populating STWG and topics:** Michele Wolfgram has accepted the responsibility of chairing the STWG and will e-mail interested professionals to determine working group membership and for new topics for the STWG to address.
4. **Frequency of STWG Teleconferences:** Michele suggested a 2-month frequency for STWG calls during months when the full SCAPA teleconferences were not held. There was general agreement with that concept. Michele mentioned that January 2009 may be too early. Therefore, March 2009 would be a likely time for the next STWG teleconference.



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III. Next SCAPA STWG Meeting

The next SCAPA STWG teleconference has not yet been scheduled, but would likely be in March 2009.

IV. Adjournment

The meeting was adjourned at **1:54 p.m. EST**. Michele thanked everyone for their time and their contributions.