



Highlights
STWG Teleconference 11-01
January 12, 2011, 2:00 p.m. EST

Participants

Denny Armstrong, WSMS/SRS	Mike O'Keeffe, NSTec/NNSS
Dan Conners, Fluor-Hanford	Bill Possidente, NSTec/NTS
Wayne Davis, WSMS/SRS	Jim Powers, NA-41
Dave Freshwater, NA-41	Chuck Rives, B&W Pantex
Cliff Glantz, PNNL	Susan Vosburg, SNL
Steve Homann, LLNL NARAC	Michele Wolfgram, ORNL
Jim Jamison, SAIC	

Roll Call

Michele Wolfgram conducted a roll call, acknowledged that 13 professionals were present, and called the teleconference to order.

Administrative Matters

No administrative matters were discussed.

Old Business

STWG AI 08-01 (Activity Continuing)

The FAQ regarding applicability of the DOE TRU Standard (i.e., DOE-STD-5506-2007) statistical Material At Risk (MAR) approach in Emergency Planning Hazards Assessments (EPHAs) was issued on 12/3/10. The paper on the potential applications of the DOE TRU Standard to EPHAs will be revised to refer to this additional guidance for developing MARs in EPHAs. Once the paper is revised, it will be sent to Dr. Powers and the remainder of the STWG for a final review

STWG AI 08-02 (Activity can be closed)

Jim Jamison had intended to develop a white paper or Frequently Asked Question (FAQ) on how to address non-radiological vs. radiological health effects. However, he has determined that the community has been quiet regarding this matter, and it doesn't seem to require a generalized approach and solution but instead should be solved on a case-by-case basis. Wayne Davis agreed, citing two examples where he was investigating different, very specific chemicals, each requiring

specialized evaluation. Overall the STWG agreed that there was no driver to continue pursuing this matter.

STWG AI 09-03 (Activity Continuing)

Wayne Davis has been working on a recommendation paper discussing the use of non-respirable source terms to ensure that non-respirable dose impacts (e.g., ground shine) are being considered. The paper has not yet been completed due to the recent discussions regarding deposition velocities. The Chief of Nuclear Safety and Defense Nuclear Facilities Safety Board (DNFSB) has questioned the deposition velocity values used in the Hanford Waste Treatment and Immobilization Plant (WTP) safety basis documents, which has raised similar questions at other sites. Wayne is putting together a response for Savannah River Site (SRS) and hopes to incorporate some of the resulting information in his recommendation paper. The main concern is regarding releases of gamma-emitting radionuclides, where the dose is dependent on the combination of deposition velocity and respirable fraction. In these cases, what has previously been thought to be conservative (i.e., using a smaller deposition velocity) may not actually provide the most conservative results. Wayne hopes to have the recommendation paper out for review before the next STWG teleconference and has submitted a presentation proposal to discuss this topic at the EMI SIG Annual Meeting.

STWG AI 09-05 (Activity Continuing)

Dan Connors has been working on a recommendation paper regarding the use of Dose Equivalent (DE) Curies to support emergency planning and plume modeling during real events. He has received input from Cliff Glantz and other colleagues at PNNL. Dan reported that the paper is in draft form and should be issued for review locally by February. After the local review is complete, the paper will be distributed to the STWG for a more widespread review.

New Business

The format and content of the STWG meeting at the EMI SIG Annual Meeting was discussed. It was suggested that the STWG wait to see what presentation proposals are submitted in case there are appropriate topics that are not chosen to be presented in any of the other forums that could be performed during the STWG meeting. The previous idea on holding a panel discussion on source term characteristics of fire-driven releases was mentioned, and Chuck Rives stated that he thought that issue was being addressed in the Hazards Assessment Subcommittee meeting. It was discussed that the group could still hold a panel discussion at the STWG meeting after the formal presentation, much like the Leak Protection Factor (LPF) discussion last year. More detailed discussion will be held on the annual STWG meeting at the next conference call.

Next SCAPA STWG Meeting

The next SCAPA STWG teleconference is scheduled for **March 9, 2011**, at **2:00 p.m. EST**.

Adjournment

The meeting adjourned at **2:32 p.m. EST**. Michele thanked everyone for their time and contributions.