



Highlights
STWG Teleconference 10-04
September 8, 2010, 2:00 p.m. EDT

Participants

Denny Armstrong, WSMS/SRS	Chuck Rives, B&W Pantex
Dan Conners, Fluor-Hanford	Brad Salmonson, INL
Wayne Davis, WSMS/SRS	Susan Vosburg, SNL
Dave Freshwater, NA-41	Kerry Ward, INL
Carl Mazzola, Shaw Environmental	Jamie Wright, B&W Y-12

Roll Call

Carl Mazzola conducted a roll call, acknowledged that 10 professionals were present, and called the teleconference to order. Chuck Rives facilitated the teleconference in place of Michele Wolfgram, STWG Chair, who was on vacation.

Administrative Matters

No administrative matters were discussed.

Old Business

STWG AI 08-01 (*Activity Continuing*)

A draft paper on the DOE TRU Standard (DOE-STD-5506-2007) and its potential applications to Emergency Planning Hazards Assessments (EPHAs) continues to be reviewed by Dr. Jim Powers, NA-41. Jim is seeking a knowledgeable source in DOE/EM to assist him in this review. The final disposition of this item will be made when NA-41 completes its review and its comments are appropriately addressed. Jim Powers was not available to update the status.

STWG AI 08-02 (*Activity Continuing*)

Jim Jamison is developing a FAQ since DOE G 151.1-1 is somewhat silent on how to address the non-radiological vs. radiological health effects issue and will seek STWG review on his draft. Jim made a presentation on this at the Hazards Assessment Subcommittee (HASubC) meeting, and a path forward was discussed at the annual STWG meeting. Jim was not available to provide an update.

STWG AI 09-03 (Activity Continuing)

Wayne Davis was developing 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.

Wayne had emphasized that this is not limited to emergency management, but that safety basis organizations are interested since they generally only model the respirable source term as well.

Wayne has not had an opportunity to address this AI further but indicated that he will have a draft ready for STWG review by October 31, 2010.

STWG AI 09-05 (Activity Continuing)

Dan Connors is developing an objective statement on the use of Dose Equivalent (DE) Curies to support emergency planning and plume modeling during real events. He has received Hanford-related feedback from field survey teams and safety basis organizations on his first draft. Wayne Davis asked if there is a common definition for DE curies, but no one on the teleconference knew of one.

Brad Salmonson asked whether DE curies for releases with high gamma shine components can translate into protective actions. Presently, because an acceptable technique using DE curies is not available to EPHA analysts, there is no technical basis for development of EPHAs for these types of releases, and subsequent EALs and PAs cannot be developed. Dan mentioned that DE curies are used at NTS for waste characterization and waste acceptance criteria, but it appears that this technique has not made its way into the emergency planning arena yet.

Carl Mazzola asked whether HS-63 has brought this up on any of its assessments, and it appears they have not. Carl recommended that this be developed further and brought to NA-41's attention for determination of how to deal with it. Dave Freshwater indicated that NA-41 would take a look at this but cautioned that one DOE site should not dictate what other DOE sites should do. He seemed to imply that because the policy is silent on the issue, sites may choose DE source terms as one of several possible ways to assess a source term and may select or develop their own way to determine the DE source term. He added that NA-41 is far from making a policy decision on this matter; however, it would be happy to provide feedback after receiving something and has had ample time to evaluate it against existing emergency management requirements. Dave also said that within the performance-based standard, unless performance issues arise through use of one or another method of assigning DE source terms, there is no identified need for prescriptive standards for assigning DE source term methodology.

Dan will issue the objective statement for STWG review by October 31, 2010.

New Business

Dan Connors alerted the STWG to a good safety analysis handbook source, the Hanford Safety Analysis and Risk Assessment Handbook (SARAH), HNF-8739 Revision 1. It can be located at http://www.osti.gov/bridge/product.biblio.jsp?osti_id=835537. Dan will send an electronic copy to Michele for posting on the STWG web page, or we will just post the OSTI link.

Wayne Davis shared that he has noted Am-241 is limiting for inhalation dose calculations using ICRP 26/30 dosimetry. However, since DOE and others have moved onto ICRP 68/72 dosimetry, Pu-239 has now become the most limiting. Wayne believes this is due to the new lung clearance models and/or isokinetics. Wayne will develop a brief write-up on this to share with STWG.

Next SCAPA STWG Meeting

The next SCAPA STWG teleconference is scheduled for **November 10, 2010**, at **2:00 p.m. EST**.

Adjournment

The meeting adjourned at **2:52 p.m. EDT**. Chuck thanked everyone for their time and contributions.