



**Highlights**  
**STWG Teleconference 09-03**

**Wednesday, September 9, 2009; 2:00 PM EDT/1:00 PM CDT/12:00 PM MDT/11:00 AM PDT**

**Participants:**

Maureen Alai, LLNL/NARAC  
Dennis Armstrong, WSMS  
Brian Baumann, Fluor-Hanford  
Dan Connors, Fluor-Hanford  
Gerry Gibeault, INL  
Cliff Glantz, PNNL  
Steve Homann, LLNL/NARAC  
Steve Lockett, NA-41

Carl Mazzola, Shaw Environmental  
Mister McDonnell, NTS/NSTec  
Mike O'Keeffe, NTS/NSTec  
Phil Pfeiffer, INL  
Bill Possidente, NTS/NSTec  
Chuck Rives, Battelle-Pantex  
Rick Rodriguez, ORNL  
Michele Wolfgram, ORNL

**I. Roll Call**

Michele Wolfgram conducted a roll call and acknowledged that 16 individuals were present and the teleconference was called to order.

**II. Administrative Matters**

Michele announced that she has taken a position at ORNL but will continue in her capacity with the SCAPA STWG.

Michele asked for suggestions to improve the SCAPA STWG website.

**III. Old Business**

**STWG AI 08-01:** Michele sent out the paper regarding the DOE TRU Standard (DOE-STD-5506-2007) and the potential applications to Emergency Planning Hazards Assessments (EPHAs) for review prior to the July 2009 conference call. It was decided that comments would be submitted by August 12 with the intent to have a final draft before the next conference call. Comments were received from John Harris. Michele will extend the comment date to September 30, 2009, and issue the paper soon afterwards.

**ACTIVITY CONTINUING**

**STWG AI 08-02:** Jim Jamison was not on the conference call to discuss non-radiological vs. radiological health effects. Jim developed an objective statement for this issue which was sent out to the group on August 11, 2009. Michele asked for volunteers to assist Jim. **ACTIVITY CONTINUING.**

**STWG AI 09-01:** During an earlier teleconference, Wayne Davis volunteered to send out an example of how SRS handles criticality source terms and modeling and asked for comments from the group. Wayne had stated that he would have this example distributed in the near future, but was unavailable for this teleconference. **ACTIVITY CONTINUING**



**Subcommittee on Consequence Assessment  
and Protective Actions (SCAPA)  
Source Term Working Group (STWG)**

**STWG AI 09-02:** During an earlier teleconference, Wayne Davis volunteered to share a paper written on general ball-milled Pu-238 characteristics and, once it is certain that the information is not sensitive, a description of how Savannah River Site (SRS) handled the material. Wayne had discussed that the issue revolves around the use of non-conservative Respirable Fractions (RFs) because the characteristics of the material are unusual and not widely known. Wayne was unavailable to update his work on this action item. **ACTIVITY CONTINUING**

**STWG AI 09-03:** During an earlier teleconference, Wayne Davis indicated that he would develop a recommendation paper discussing the use of non-respirable source terms to ensure people are adequately considering non-respirable dose impacts (e.g., ground shine). Wayne was unavailable to update his work on this action item. **ACTIVITY CONTINUING**

**STWG AI 09-04:** Chuck Rives had developed an objective statement associated with Leak Path Factor (LPF) which was sent out to the group by listserv on August 11, 2009. There was considerable discussion on collecting information sources on LPF which are quite sparse. DOE G 151.1-1 gives some flexibility in the determination of LPFs. DOE HDBK-3010 which has the 5-factor formula in it, does not provide much specificity. It was agreed that the safety analysts probably have the best handle on quantifying LPFs since this is needed for Documented Safety Analyses (DSAs) and Chuck will follow up with the EFCOG Safety Analysis Working Group (SAWG). Brian Baumann shared that the RADIDOSE code at Hanford (DOE-RL-2002-50) may also provide additional insights. Carl Mazzola indicated that MOX uses 0.01 for a High Efficiency Particulate Air (HEPA) filter and 0.0001 for two HEPA filters in series. This has been accepted by the Nuclear Regular Commission (NRC) in its 10 CFR 70 License Application (LA). Chuck plans to compile all available information on LPFs into a living document which will be periodically updated. **ACTIVITY CONTINUING**

**STWG AI 09-05:** Brian Baumann discussed Dose Equivalent (DE) Curies and whether it is applicable to fission products and transuranics. Brian will be leaving his position and Dan Connors, who will be replacing him, agreed to develop an objective statement. **ACTIVITY CONTINUING**

#### **IV. New Business**

Gerry Gibeault inquired why the Revision 25 PAC/TEELs suggested using sodium hydroxide for sodium/potassium alloy EPHAs. It was indicated that it probably had to do with the reactive chemistry when mixing with water. Cliff suggested that Gerry go to the SCAPA web page and submit a question to the TEEL development team.

#### **V. Next SCAPA STWG Meeting**

Michele Wolfgram indicated that next SCAPA STWG teleconference is scheduled for **November 11, 2009, at 2 pm EST.**

#### **VI. Adjournment**

The meeting was adjourned at **2:26 p.m. EDT.** Michele thanked participants for their time and their contributions.