



**Highlights**  
**SCAPA Teleconference 12-05**  
**October 18, 2012, 12:30 – 1:30 p.m. EDT**

**Participants**

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Stuart Bayne, AWD	Iy Olberding, BNL
Jayne-Anne Bond, ATL	Shana Petersen, B&W Y-12
Bud Bucci, Hanford	Rocky Petrocchi, Petrocchi Associates
Chris Clawson, OST	Jim Powers, NA-41
Doug Craig, ATL	Josh Price, URS SMS Oak Ridge
Velsey Curran, SNL	Chuck Rives, Pantex
Wayne Davis, URS SMS SRS	Walt Schalk, NNSS NOAA ARL/SORD
Dave Freshwater, NA-41	Dina Siegel, LANL
Cliff Glantz, PNNL	Timothy Stirrup, SNL
Aprill Jivelekas, Hanford	Richard Thomas, Intercet
Laura Kidd, ORISE	Tom Tuccinardi, Excalibur
Carl Mazzola, Shaw Environmental	Michele Wolfgram, ORNL
Vern McDougall, ATL	Xiao-Ying Yu, PNNL

**Roll Call**

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Carl Mazzola conducted roll call, noting that 26 emergency management professionals involved in various aspects of the SCAPA and its related programs, as identified in the above participants list, were present. SCAPA Teleconference 12-05 was called to order.

**Administrative Matters**

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**EMI SIG 2013 Meeting (Activity proceeding)**

Dave Freshwater mentioned that there is still no change in status for the May 2013 EMI SIG meeting. The secretarial waiver from the recent Federal policy on limiting large meetings beginning FY13 has been applied for by NA-40 to allow the 2013 EMI SIG meeting to occur, but no response has yet been received.

**NA-41 Reorganization (Activity can be closed)**

With respect to other news from NA-41, Dave provided additional information on the recent reorganization of NA-41. The COOP and NA-43 programs have been placed under Jim Fairbent's responsibility, with Jose Maisonet becoming his deputy. NA-42 was not affected.

**DOE O 151.1D (Activity proceeding)**

Dave did not discuss DOE O 151.1D beyond what he did in the August 2012 teleconference. Its preparation has been slowed down since it needs to await the outcome of the HS-30 beyond

design basis determinations effort and how this will be treated in DOE nuclear safety orders and standards (e.g., DOE-HDBK-3009; DOE-STD-1020). Therefore, it should not be expected anytime soon.

## **SCAPA Working Group Activities**

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### ***Chemical Exposures Working Group (CEWG)***

#### **PAC/TEEL Revision 28 (Activity proceeding)**

Jayne-Anne Bond indicated that ATL continues work on PAC/TEEL Revision 28, which will incorporate the last recommendations from the independent outside review group, chemical and toxicity data updates, new TEEL requests, new final Acute Exposure Guideline Levels (AEGs), and new Emergency Response Planning Guidelines (ERPGs). Jayne-Anne, Doug Craig and Po-Yung Lu continue their review of chemical toxicity data. Since publication of PAC/TEEL Revision 27, requests have been made for TEEL development of six additional chemicals.

#### **EPA NAC AEGs (Activity proceeding)**

Dave provided an update to this Environmental Protection Agency (EPA) human toxicity program. EPA is still concentrating its remaining future efforts with this program on working with the National Academy of Sciences (NAS) to advance some of the remaining interim AEG values to final status. EPA intends to support one last meeting of the NAS Committee in FY13. This meeting will potentially finalize 25-30 chemicals that are currently in interim status. If any changes are made between interim and final status, EPA posts the changes when NAS publishes the final AEGs.

#### **AIHA ERP ERPGs (Activity proceeding)**

Richard Thomas stated that the Emergency Response Planning (ERP) Committee conducted its last teleconference meeting on September 9-10, 2012, where it identified the 10-12 substances it will be evaluating for the upcoming year. The next ERP Committee teleconference meeting will be in early November 2012.

### ***Chemical Mixtures Working Group (CMWG)***

#### **CMM Testing (Activity proceeding)**

Xiao-Ying Yu reported that this summer's intense review and testing of the Chemical Mixture Methodology (CMM), including assessing a new target organ system effect (TOSE) approach, was completed in September. A draft report detailing the first half of the summer's research efforts (as conducted by our DOE and DHS summer interns) has been issued and reviewed by the SCAPA toxicologists. A report detailing the progress made in the second half of the summer is being prepared. In related news, research conducted by our interns two summers ago,

drafted as a journal article in late 2011 and reviewed by DOE/NA-41 in early 2012, will be published in a December 2012 special issue of the journal "Toxicology."

### **CMM Revision 28 (Activity proceeding)**

Xiao-Ying indicated that work continues on CMM Revision 28, which will be developed in tandem with PAC/TEEL Revision 28. To date, 405 of a planned 508 chemicals have been independently reviewed as part of the revision process.

### **CMM Wizard (Activity proceeding)**

Xiao-Ying stated that a beta version of the CMM Wizard, which was demonstrated at the SCAPA meeting, is being prepared for posting on the ORISE Website so that SCAPA members can evaluate this new on-line tool and provide comments that can be incorporated into the final design of the CMM Wizard.

### ***Consequence Assessment Modeling Working Group (CAMWG)***

#### **SCAPA Modeling Toolbox—SQA & Candidate Models (Activity proceeding)**

Cliff Glantz reported for Jeremy Rishel and indicated that the SCAPA toolbox web page continues to be populated and is operational with descriptions, contact information, and CAMWG software quality assurance (SQA) gap analyses for both CAPARS and APGEMS. Material will be posted soon on NARAC, as two reviews of this model have now been completed (still hoping to get input from a third reviewer). NARAC may be held to a somewhat higher standard for problem reporting and user documentation than most other toolbox models because NARAC has such a large and geographically diverse user community. Work has begun on the SQA evaluation of RASCAL and HYSPLIT by their model custodians and SCAPA SQA evaluation teams are being formed for this model. In particular, a NOAA/ARL liaison at INL is providing a significant amount of HYSPLIT documentation to facilitate the review.

#### **MACCS2 Wind Speed Resolution (Activity proceeding)**

Cliff reported on a draft White Paper that shows the apparent MACCS2 issue presented by a Hanford contractor to an HS-30 working group was not a model SQA issue but a wind speed resolution issue. The White Paper is virtually complete and will be sent to NA-41 for review. NA-41 may decide to hand this over to HS-30 for final publishing.

#### **PAR Response Cards (Activity proceeding)**

Mike O'Keefe was not available to further discuss the draft Protective Action Response (PAR) cards that are being developed for offsite agencies at Nevada Nuclear Security Site. Mike will send a non-Official Use Only (OUO) version to SCAPA.

## ***Biosafety Working Group (BWG)***

### **Biotoxin HCNs (Activity proceeding)**

Dina Siegel had no additional update on the BWG work involving biotoxins. Previously, the BWG had prioritized biotoxins into two tiers of importance relative to the future effort of developing HCNs for biotoxins; with ricin and botulinum in the top tier.

### **DOE Security Order Review (Activity proceeding)**

At the last teleconference, Dina indicated that the BWG continues to review a new draft DOE security order, which will not affect BSL-1, BSL-2 or BSL-3 facilities.

### **Review of CDC-DOE MOU (Activity proceeding)**

At the last teleconference, Dina also indicated that the Memorandum of Understanding (MOU) between DOE and the Centers for Disease Control and Prevention is still under development; requiring both agencies to provide prior notification before its inspections. The BWG continues to review the draft MOU.

### **Select Agent Rule (Activity proceeding)**

Dina mentioned that the select agent rule became effective on October 5, 2012 with its publication in the Federal Register (see <http://www.selectagents.gov/> for more information). This will drive physical security and personnel security program updates, which are required by April 2013 for DOE sites that possess and use Tier agents. Dina emphasized that non-Tier I agents are looked at differently.

### **ABSA (Activity proceeding)**

The relationship with BWG and American Biological Safety Association (ABSA) needs to be reaffirmed in order to continue our cooperative arrangement. Dina will review the existing ABSA-BWG agreement and analyze what should be the next step.

### **Engineered Nanomaterial Health Impacts (Activity proceeding)**

Dina inquired whether there was any health effects requirements for engineered nanomaterials (e.g., carbon nanotubes) since LANL is considering developing an Emergency Planning Hazard Assessment (EPHA) for the manufacture of them. Jim Powers mentioned that he was not aware of any requirements. Wayne Davis stated that Savannah River National Laboratory (SRNL) has had several meetings on controls for nanomaterials and has discovered that High efficiency Particulate Absorber (HEPA) filtration works well for particles as small as 0.3 microns (300 nanometers) through electrostatic adhesion capture. Jayne-Anne mentioned that she had looked at several papers on the subject in anticipation of possible future TEEL requests.



Richard stated that the AIHA has commissioned a Nanomaterials Working Group, which is conducting a roundtable on the unique hazards of nanomaterials

### ***Source Team Working Group (STWG)***

#### **HOTSPOT Deposition Velocity (Activity proceeding)**

Chuck Rives reported that work continues on the scoping of the HOTSPOT 2.07.2 deposition velocity review project.

#### **Dose-Equivalent Curies (Activity proceeding)**

Chuck mentioned that the White Paper on Dose Equivalent (DE) curies is still under review by the STWG.

### **Round Robin**

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No round robin issues were raised.

### **Next SCAPA Conference Call**

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The next SCAPA Teleconference is scheduled for **Thursday, December 13, 2012 at 12:30 p.m. EST.**

### **Adjournment**

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The teleconference adjourned at **1:28 p.m. EDT.** Carl thanked everyone for their time and contributions.

### **SCAPA Program Action Item (AI) Status**

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Based on the information exchange from this teleconference, 16 activities were continued, one activity was closed, and three new activities were opened. A status of these activities will be discussed at the next SCAPA teleconference.

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.**
- **AIs to be closed are colored blue.**

Respectfully Submitted,

*Carl Mazzola*

SCAPA Executive Secretary