



**Highlights**  
**SCAPA Teleconference 12-03**  
**June 21, 2012, 12:30 – 1:30 p.m. EDT**

**Participants**

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Tom Bellinger, BWXT Y-12  
Jayne-Anne Bond, ATL  
John Ciolek, Alpha TRAC  
Kirk Clawson, ARLFRD  
Doug Craig, TL  
Dave Freshwater, NA-41  
Cliff Glantz, PNNL  
Laura Kidd, ORISE  
Po-Yung Lu, ORNL  
Carl Mazzola, Shaw Environmental

Phil Pfeiffer, INL  
Bill Purtyman, LANL  
Jeremy Rishel, PNNL  
Brad Salmonson, INL  
Joe Terranova, BNL  
Richard Thomas, Intercet  
Tom Tuccinardi, Excalibur  
Kerry Ward, INL  
Michele Wolfram, ORNL

**Roll Call**

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Carl Mazzola conducted roll call, noting that 19 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 12-03 was called to order.

**Administrative Matters**

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***EMI SIG 2012 Meeting Wrap-Up***

Carl Mazzola reviewed the highlights of the 26<sup>th</sup> EMI SIG Meeting that was held May 14-17, 2012 at the Seattle Renaissance, Seattle, Washington. The SCAPA meeting, which took place on Monday, May 14, 1:15 p.m.–5:20 p.m., was refocused on technical presentations and preceded by a joint Hazard Assessment Subcommittee (HASC)/SCAPA/DOE Meteorological Coordinating Council (DMCC) session. All five of the SCAPA working groups met during the meeting, as well as the NARAC working group. A full-day HOTSPOT Version 2.07.02 workshop and computer practicum was conducted on Thursday, May 17, 2012 with 15 professionals trained in the code.

**SCAPA Working Group Activities**

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

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

Jayne-Anne Bond stated that ATL continues work on PAC/TEEL Revision 28, which will incorporate chemical and toxicity data updates, new TEEL requests, new interim-final Acute

Exposure Guideline Levels (AEGLs), and new Emergency Response Planning Guidelines (ERPGs). Jayne-Anne Bond, Doug Craig, and Po-Yung Lu continue to review chemical toxicity data and are responding to a few Temporary Emergency Exposure Limit (TEEL) requests. One of the requests suggests modifications to the beryllium oxide PAC/TEELs, which is being studied.

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

Dave Freshwater 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) and a Federal group to advance some interim AEGL values to final status. Concurrently, an EPA Stakeholder Committee is addressing any inquiries on substances changed from interim to final. A PDF of Volume 12 of the AEGLs can be downloaded from the NAS website, and Volume 13 will be available later this year.

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

Richard Thomas stated that the Emergency Response Planning (ERP) Committee conducted a teleconference meeting on June 12, 2012 and has formally released ERPGs for 11 substances; of which two substances are new. These revised ERPGs will be incorporated in PAC/TEEL Revision 28. The ERP will identify the number of substances it will be evaluating for the upcoming year by Fall 2012.

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

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

Carl Mazzola, for Xiao-Ying Yu, reported that three new interns are supporting new testing of the Chemical Mixture Methodology (CMM). Two of the interns are conducting an expanded CMM testing program, which includes examining a new target organ system effect approach that was recently approved by SCAPA toxicologists.

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

Alex Booth continues to develop a Beta-test version of the CMM Wizard. The CMM Wizard was presented at the SCAPA meeting and was available for use at the Pacific Northwest National Laboratory (PNNL) TRADEing Post booth.

#### **CMM Workbook (Activity can be closed)**

The CMM Workbook Revision 27 has been completed.

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

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

Carl mentioned that Frank Roberto has taken a one-year sabbatical from his work at Idaho National Laboratory (INL) and is working in Colorado. Dina Siegel has assumed the chairmanship of the BWG. The BWG has 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)**

The BWG continues to review a new draft DOE security order, which will not affect BSL-1, BSL-2 or BSL-3 facilities. Since an Executive Order prevents the siting of BSL-4 facilities at DOE national laboratories, the security order should not materially affect any DOE biosafety laboratories.

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

The Memorandum of Understanding (MOU) between DOE and the Centers for Disease Control (CDC) is still under development, requiring both agencies to provide prior notification before its inspections. The BWG continues to review the draft MOU.

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

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

Jeremy Rishel reported that the SCAPA toolbox web page continues to be populated and is operational. The web page includes descriptions, contact information, and CAMWG software quality assurance (SQA) gap analyses for both CAPARS and APGEMS. Material will be posted soon on NARAC. The next code to be evaluated will likely be RASCAL, which is used at several DOE sites. In addition, RAMS/LPDM, PUFFPLUME, HYSPLIT, and several other codes are candidates for evaluation in 2012.

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

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

Michele shared that the STWG continues to scope out the work for the HOTSPOT 2.07.2 deposition velocity review project.

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

Michele indicated that the White Paper on Dose Equivalent (DE) curies is under review by the STWG.

**Source Term Factors Presentation (Activity can be closed)**

The source term factors training presentation has been posted on the STWG web page.

Chuck Rives will be STWG chairman this year, and conference calls will be conducted quarterly rather than every two months.

**New Business**

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No new business was brought to the floor.

**Round Robin**

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<b>Location</b>	<b>Representative</b>	<b>Discussion</b>
<b>SNL</b>	John Ciolek	The SNL annual exercise was recently conducted with a scenario of a spill of hydrochloric acid and nitric acid mixing together in an exothermic reaction that liberated chlorine gas. The emergency responders did not properly address the reaction products. CAMEO identifies which chemicals will react, but it does not provide the chemical reaction products and their concentrations. The CMM was used with a surrogate source term, and NARAC was run for individual chemicals, which were then input into the CMM workbook.
<b>BNL</b>	Joe Terranova	The BNL annual exercise took place on 6/20/12 utilizing a chemical suicide scenario. A disgruntled employee mixed toilet bowl cleaner with lime sulfur spray that liberated hydrogen sulfide gas at concentrations greater than 1,000 ppm. Material Safety Data Sheets (MSDSs) proved helpful.

After the meeting, Dave Freshwater indicated that the EFCOG/CSTC Chemical Safety and Lifecycle Management group published a paper about problems using chemical reactivity spreadsheets. The link to the DOE version of the paper is [http://www.hss.doe.gov/HealthSafety/WSHP/Chem\\_Safety/Self\\_Assess/usepaperrevision.pdf](http://www.hss.doe.gov/HealthSafety/WSHP/Chem_Safety/Self_Assess/usepaperrevision.pdf).

**Next SCAPA Conference Call**

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The next SCAPA Conference call will be scheduled for **Thursday, August 16, 2012** at **12:30 p.m. EDT**.



## Adjournment

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The teleconference adjourned at **1:03 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, nine activities were continued, one new activity was opened, and three activities were closed. 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