



**Highlights**  
**SCAPA Program Teleconference 09-06**  
**Thursday, December 17, 2009; 12:30 p.m.-1:30 p.m. EST**

**Participants:**

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Maureen Alai, NARAC  
Stuart Bayne, AWD Management Systems  
Tom Bellinger, Y-12  
Jayne-Ann Bond, ATL  
Dorothy Cohen, ORISE  
Wayne Davis, WSMS  
Dave Freshwater, NA-41  
Cliff Glantz, PNNL  
Po-Yung Lu, ORNL  
Peter Martin, EOTA

Carl Mazzola, Shaw Environmental  
Shana Peterson, Y-12  
Rocky Petrocchi, ATL  
Bill Possidente, NS Tec  
Jim Powers, NA-41  
Jeremy Rishel, PNNL  
Diane Rodi, ANL  
Richard Thomas, Intercet  
Michele Wolfgram, ORNL  
Jamie Wright, Y-12

**I. Roll Call**

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Carl Mazzola conducted a roll call, noting that 20 emergency management professionals involved in various aspects of the SCAPA program, as identified in the above teleconference participants list, were present. The teleconference was called to order.

**II. Administrative Matters**

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Carl Mazzola indicated that the highlights from SCAPA Program Teleconference 09-05 have been approved and will soon be posted by ORISE on the EMI SIG/SCAPA website.

Carl Mazzola also informed everyone that the SCAPA Meeting is being moved to Monday afternoon during the EMI SIG meeting week and presentations need to be proposed through the EMI SIG Steering Committee by January 7, 2010. Cliff mentioned that these summaries do not have to be any longer than 100 words.

**III. SCAPA Working Group Activities**

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**Chemical Exposures Working Group (CEWG)**

**PAC/TEEL Revision 26:** Po-Yung Lu stated that 18 interim AEGLs were approved and 5-6 other chemicals have had their AEGLs revised. These new chemicals with AEGLs and the chemicals that had their AEGLs revised; as well as the chemicals with EPRG revisions, that are expected in January 2010 will be addressed in PAC/TEEL Revision 26. **ACTIVITY PROCEEDING.**

Jayne-Anne Bond mentioned that a TAG+ meeting was conducted on November 3, 2009 at NA-41 offices and the TEEL methodology was discussed. The Outside Review Group was at the TAG+ meeting and is developing a series of recommendations to NA-41 to determine a path forward. **ACTIVITY PROCEEDING.**

**Update of PAC/TEEL data for Toxicity-Dependent Chemicals:** A technical update on the PAC/TEEL data set to provide updates for chemicals whose PAC/TEEL values are driven by toxicity values is proceeding. Po-Yung Lu mentioned that the first 500 of 760 old PAC/TEELs (i.e., through mid-1997) where RTECS is the primary source, have been completed. **ACTIVITY PROCEEDING.**

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

**Update of Health Code Numbers:** Rocky Petrocchi reported that the update of HCNs for first 1000 original Chemical Mixture Methodology (CMM) chemicals was completed a few months ago and the current effort is focused on completing a thorough QA review of the HCN values developed for 15% of these chemicals. To date, HCN values have been quality assured for about 10% of the chemical. This QA review is expected to be completed in the first quarter 2010. If no major problems are found in the derivation of the HCNs, the updated HCNs will be incorporated in the next CMM revision to be published at a date-to-be-determined. **ACTIVITY PROCEEDING.**

**HCN Technical Papers:** Xiao-Ying Yu has led the writing of a journal article on the development of HCNs for the CMM. The paper highlights the differences between the old and new HCN methodologies. This draft was discussed at the TAG+ meeting and is now being polished by Andrea Currie, a PNNL technical editor. A final review by TAG+ and NA-41 will be conducted as soon as the document is released by the editor. Submission to *Journal of Applied Toxicology* in January 2010 is still likely. **ACTIVITY PROCEEDING.**

A second journal article associated with using surrogate source terms to streamline the application of the CMM has been drafted by John Ciolek and Xiao-Ying Yu, based on a paper presented by John at the last SCAPA meeting. The review draft of this journal article should be submitted to the TAG+ for comments in January, 2010. **ACTIVITY PROCEEDING.**

#### **Consequence Assessment Modeling Working Group**

**AI 06-01: Central Toolbox Registry – SQA & Candidate Models:** Cliff Glantz and Jeremy Rishel continued the discussion on the development of SCAPA Safety-Related Software Quality Assurance (SQA) Guidance for safety-related and other non-safety consequence assessment models (i.e., models not governed by DOE Order 414.1C for safety software). This SQA guidance may also be applicable to meteorological data software and other software that support emergency preparedness activities. The current version of this guidance document, which incorporates comments from NARAC and other SCAPA reviewers, is in the hands of Andrea Currie. Once technical editing is completed, a final review of the document will be conducted to gain approval from both NA-41 and representatives of the DOE/HSS Central Registry for safety software (i.e., Subir Sen and Debra Sparkman).

Once the guidance is finalized, it will be available to all DOE/NNSA consequence assessment modelers. The guidance will be used by the model developers to create a preliminary SQA gap analysis of their codes. The SQA gap analyses will be evaluated by select members of the CAMWG. The ultimate goal is to have the SQA gaps closed on all SCAPA toolbox models by September 30, 2010. **ACTIVITY PROCEEDING.**

**Consequence Assessment Guide:** A Consequence Assessment Guide, developed for use by DMCC or NNSA/DOE meteorological program managers to conduct assessments of the meteorological component of the site's consequence assessment program is under NA-41 review and when issued, will compliment



## Subcommittee on Consequence Assessment and Protective Actions (SCAPA)

the Meteorological Data Program Assessment Guide. No additional discussion during this teleconference.  
**ACTIVITY PROCEEDING.**

**HOTSPOT 2.07 in DOE Central Registry:** Wayne Davis, Carl Mazzola, and Cliff Glantz are part of an assessment team that continues to evaluate HOTSPOT 2.07 critical area responses for it to become 8<sup>th</sup> model in Central Registry Toolbox. During a December 4, 2009 conference call, John Nasstrom committed to developing a Level 1 schedule to establish when the five critical area responses that needed to be addressed to permit entry of HOTSPOT 2.07 into Central Registry Toolbox would be completed. Wayne mentioned that the latest version of HOTSPOT is now 2.07.01 which accommodates the Eckerman (ORNL) Dose Conversion Factors. **ACTIVITY PROCEEDING.**

### **Biosafety Working Group**

Diane Rodi shared the highlights of a recently-conducted BWG conference call that addressed the 2009 accomplishments and established 2010 goals. The White Paper that was developed to address AI 06-06 has been approved by NA-41 for posting on the BWG's SCAPA webpage.

### **Source Term Working Group**

Michele Wolfgram stated that the STWG conducted a teleconference on November 11, 2009 and the working group is in the process of addressing several issues which include a White Paper associated with the DOE Standard on Transuranic (TRU) waste, Leak Path Factor (LPF), ball milled plutonium, dose-equivalent curies, and an evaluation on non-radiological versus radiological health effects. The next STWG teleconference is scheduled for January 13, 2010.

## **IV. SCAPA Web Page and EMU Report**

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Cliff Glantz indicated that work on updating the newly reformatted SCAPA web page continues. Broken links have been found, corrected links identified, and new material has been prepared.

## **V. EPA AEGLs Status**

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Through a November 2009 Federal Register notice, EPA management decided to extend the NAC for two more years to address additional chemicals for AEGL development even though its mandate from Congress has essentially been accomplished.

Po-Yung Lu reported that the 50<sup>th</sup> meeting of the EPA National Advisory Committee (NAC) is scheduled for April 13-15 2010, in San Francisco, CA.

## **VI. AIHA ERPGs Status**

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Richard Thomas reported on recent Emergency Response Planning (ERP) Committee activities. The ERP conducted a teleconference on November 11, 2009 to discuss changes in the ERPG/WEEL Handbook format, and the six (6) new substances that it plans to update in its January 2010 handbook. These include gasoline and formic acid.



## VII. EPA PAGs Status

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Earlier discussions with an EPA representative indicated that the change in Administrations has resulted in further review of the new PAGs prior to publication.

## VIII. Round Robin

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Stuart Bayne shared that John Harris is recovering from his hip surgery.

## IX. Next SCAPA Conference Call

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The next SCAPA Conference call will take place on **Thursday, February 18, 2010 at 12:30 pm EST.**

## X. Adjournment

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The teleconference was adjourned at **1:23 p.m. EST.** Carl thanked everyone for their time and contributions.

## XI. SCAPA Program Action Item (AI) Status

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Based on the information exchange from this teleconference, the only AI was not closed and no new AIs were opened, keeping the number of AIs to one. The updated AI listing is maintained separately but is usually sent out with teleconference highlights.

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; and,
- AIs to be closed are colored blue.

Respectfully Submitted,

*Carl Mazzola*

*SCAPA Executive Secretary*