



**Highlights
SCAPA Teleconference 10-01
February 18, 2010, 12:30–1:30 p.m. EST**

Participants

Dennis Armstrong, WSMS
Stuart Bayne, AWD Management Systems
Tom Bellinger, B&W Y-12
Jayne-Anne Bond, ATL
Dorothy Cohen, ORISE
Wayne Davis, WSMS
Dave Freshwater, NA-41
Jonathan Gaff, ANL
Gerry Gibeault, INL
Cliff Glantz, PNNL
John Harris, DOE-ORO
Jim Jameson, SAIC
Aprill Jivelekas, WSMS
Niles Jokela, AlphaTRAC
Eric Kabela, SRNL

Kirk Kaufelds, WSI
Po-Yung Lu, ORNL
Steve Lockett, NA-41
Dan Marsick, DOE/HS
Peter Martin, EOTA
Carl Mazzola, Shaw Environmental
Mike O'Keefe, NSTec
Rocky Petrocchi, ATL
Bill Possidente, NSTec
Jeremy Rishel, PNNL
Brad Salmonson, INL
Richard Thomas, Intercet
Tom Tuccinardi, ATL
Gary Winner, ANL
Xiao-Ying Yu, PNNL

Roll Call

Carl Mazzola conducted a roll call, noting that 30 emergency management professionals involved in various aspects of the SCAPA and related programs (above) were present.

Administrative Matters

Carl indicated that highlights from teleconference 09-06 were approved to be posted on the EMI SIG/SCAPA website.

SCAPA Meeting has been moved to Monday from 12:30 p.m. to 6:00 p.m. on May 3, 2010, and an agenda was developed from the proposals sent to the EMI SIG Steering Committee. The SCAPA meeting is scheduled to accommodate members of the DMCC and HASubC who will hold their meetings that morning. The DMCC meeting will run into the early afternoon. ORISE will arrange for box lunches since there is only 30 minutes between the morning meetings and the start of the SCAPA meeting. Dorothy Cohen indicated that she will send letters to the speakers shortly and PowerPoint presentations are due to ORISE by the end of March 2010. In addition, online registration is now open. This year, registrants can pay the \$60 fee online, but that part of registration is not yet active.

Cliff added that on Tuesday and Wednesday, May 4, and May 5, 2010, all five SCAPA Working Groups will meet, as well as, the NARAC User Group. The traditional SCAPA dinner is slated for Tuesday night at the nearby Wynn Buffet.

SCAPA Working Group Activities

Chemical Exposures Working Group (CEWG)

PAC/TEEL Revision 26: Doug discussed the PAC/TEEL Revision 26 effort. This revision will include toxicity data updates for 770 chemicals for which TEELs were developed on or before September 30, 1997, using the most recent toxicology information. The revision will also include any changes made as of January 2010 to the updated 50 final AEGLs and 196 interim AEGLs, and will also include any changes in the soon-to-be-released revisions to the ERPGs. In addition, the recommendations offered by Greg Lee, LLNL, will be reviewed and incorporated, as appropriate. Currently, no firm date is set for the release of this revision. What will not be included in Revision 26 are any NA-41 decisions arising from the recent review by an external technical panel of the overall TEEL methodology. The review panel's recommendations are being finalized for NA-41 by Richard Thomas. **ACTIVITY PROCEEDING.**

Chemical Mixtures Working Group (CEWG)

CMM Revision 26: Rocky Petrocchi reported that last summer's update of HCNs for first 1000 original CMM chemicals is still awaiting completion of a 15% quality assurance review. To date 30 chemicals are QAed and completion of the review of 120 additional chemicals is expected by the end of March 2010. Updated HCN data for these 1000 chemicals will be incorporated in the next CMM revision published in the conjunction with the release of PAC/TEEL Revision 26. **ACTIVITY PROCEEDING.**

HCN Technical Paper: Xiao-Ying Yu and several other co-authors have developed the journal article on the HCN development procedure that shows the differences between the old and new HCN methodologies. The article is under NA-41 review and will be submitted for publication to the *Journal of Applied Toxicology*. **ACTIVITY PROCEEDING.**

Second HCN Technical Paper: The second HCN journal article associated with using surrogate source terms in the CMM was drafted by Xiao-Ying Yu and John Ciolek. Once this article is completed, reviewed by its co-authors, massaged by a technical editor, and approved by NA-41, it will be submitted for publication. A final decision on a target journal has not been made. It may be the *Journal of Applied Toxicology* or a different journal that may have a broader audience. May 2010 is the target date for journal submission. **ACTIVITY PROCEEDING.**

Xiao-Ying mentioned that Donna Trott completed her graduate work and taken a post-masters position in Environmental Sciences at PNNL. Donna's new position should allow her to maintain some involvement in the CMM program, with a primary focus of providing mentorship to the new summer intern who will join our team in May. The new intern, with a good chemistry

background and some toxicology experience, is a graduate student at Washington State University in the Tri-Cities.

Consequence Assessment Modeling Working Group (CAMWG)

AI 06-01: Central Toolbox Registry – SQA & Candidate Models: Cliff Glantz and Jeremy Rishel continued the discussion on the development of SCAPA Safety-Related SQA Guidelines for consequence assessment and related software (e.g., meteorological data processing, geospatial, graphical plotting software). The latest draft guidance was returned by the PNNL editor with advice on being more explicit in stating requirements for legacy software. Comments from NA-41 and DOE/HSS (i.e., Subir Sen and Debra Sparkman of the DOE/HS Central Registry) are expected shortly. The finalized guidance will be available to all DOE/NNSA consequence assessment modelers and users of this guidance to develop a preliminary application and gap analysis, which select members of the CAMWG will then evaluate. The ultimate goal is to have the gaps closed on all SCAPA toolbox models by September 30, 2010. Cliff will discuss this activity further next week with NA-41. **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 components of the site's consequence assessment program received extensive comments from NA-41. Resolution of these comments was provided two weeks later. NA-41 will complete its review and provide final guidance. When issued, this guide will complement the Meteorological Data Program Assessment Guide that was issued at the 2008 EMI SIG meeting. **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 the 8th model in Central Registry Toolbox. John Nasstrom developed a Level 1 schedule that established that the five critical area responses which are needed to permit entry of HOTSPOT 2.07 into Central Registry Toolbox will be completed by April 3, 2010. The Central Registry indicated that its review will be completed by April 30, 2010 after it receives the final information from the review team. Should this schedule be met, HOTSPOT 2.07 will be in the Registry just prior to the EMI SIG Meeting. **ACTIVITY PROCEEDING.**

Biosafety Working Group

Frank Roberto was unavailable to discuss the most recent work of this working group. During teleconference in December 2009, Frank discussed the 2009 accomplishments and outlined the 2010 goals and activities. The next Biosafety Working Group teleconference is not yet scheduled.



Source Term Working Group

As Michele Wolfgram was unavailable for the teleconference, Carl indicated that the STWG conducted a teleconference on January 13, 2010, and the working group is addressing several issues which include a White Paper associated with the DOE Standard on Transuranic waste, Leak Path Factor, ball-milled plutonium, dose-equivalent curies, and an evaluation on non-radiological versus radiological health effects. The next STWG teleconference is scheduled for March 11, 2010.

SCAPA Web Page and EMU Report

Cliff Glantz reported that the comprehensive review and update of the SCAPA web page is complete and broken links are corrected. Cliff thanked Louise Wyatt for her efforts which have vastly improved the SCAPA web page.

Tom Tuccinardi mentioned that no Emergency Management Updates are pending.

EPA AEGLs Status

Po-Yung Lu reported that the 50th meeting of the EPA National Advisory Committee is scheduled for April 13–15, 2010, in San Francisco, CA. Presently there are final AEGLs for 50 chemicals, interim AEGLs for 196 chemicals, proposed AEGLs for 25 chemicals, and work is on hold for 46 chemicals.

AIHA-ERPGs Status

Richard Thomas reported on recent Emergency Response Planning (ERP) Committee activities. The ERP met in Tampa, FL, on February 3-4, 2010, to approve changes to or add new ERPGs to 18 substances that it plans to update in its 2010 ERPG-WEEL handbook, expected to be available within 3 weeks. Rocky Petrocchi assisted in improving the layout of the handbook. The next ERP Committee meeting will be by teleconference in April 2010. Richard also indicated that the ERP has achieved 501(c)(3) status and is now an independent group with its own Board of Directors, of which several members are on the AIHA. This change of status enables the ERP to apply for grants and seek other sources of revenue which will increase its scope of activities.

EPA-PAGs Status

There is no further news on the PAGs. This agenda item will be discontinued until substantive movement on the PAGs occurs.

Round Robin

ARCON96 in NARAC: Wayne Davis inquired whether the 2006 action item to have NARAC include the plume meander-building wake horizontal and vertical dispersion coefficients in



Subcommittee on Consequence Assessment and Protective Actions (SCAPA)

ARCON96 was ever completed. Carl stated that the action item was closed because John Nasstrom investigated the feasibility of accomplishing this and determined that the empirical Gaussian Eulerian-based coefficients were not compatible with the Lagrangian-based NARAC code.

ECA-110: Pete Martin discussed the status of ECA-110, the Emergency Operations Training Academy (EOTA) three-day consequence assessment training course that was piloted last August. NA-41 recommended that some of the introductory material be configured into web-based courseware so the classroom training can be completed in one less day and more training on HOTSPOT and ALOHA code application can be included. To accomplish this, Pete was looking for volunteers who can be videotaped discussing the introductory material course content, and requested that, if anyone was interested, for them to e-mail him. Videotaping will take place at the EMI SIG meeting.

Next SCAPA Conference Call

The next SCAPA teleconference is scheduled for **Thursday, April 15, 2010, at 2:00 p.m. EDST.**

Adjournment

The teleconference adjourned at **2:57 p.m. EST.** Carl thanked everyone for their time and contributions.

SCAPA Action Item (AI) Status

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