



Highlights
SCAPA Teleconference 11-01
February 17, 2011, 12:30 p.m. EST

Participants

Jayne-Anne Bond, ATL
Stuart Bayne, Bechtel-Jacobs
Dorothy Cohen, ORISE
Diana de la Rosa, SNL
Dave Freshwater, NA-41
Cliff Glantz, PNNL
Chuck Hunter, SRNL
Jim Jamison, SAIC
Po-Yung Lu, ORNL
Steve Lockett, NA-41
Dan Marsick, DOE/HS
Carl Mazzola, Shaw Environmental

Vern McDougall, ATL
Desire Ng, NNSA-LV
Rocky Petrocchi, Petrocchi Associates
Jim Powers, NA-41
Bill Purtymun, LANL
Jeremy Rishel, PNNL
Frank Roberto, INL
Dina Siegel, LANL
Joe Terranova, BNL
Richard Thomas, Intercet
Tom Tuccinardi, ATL
Michele Wolfgram, ORNL

Roll Call

Carl Mazzola conducted a roll call, noting that 24 emergency management professionals involved in various aspects of the SCAPA and its related programs, as identified in the above teleconference participants list, were present. Teleconference 11-01 was called to order.

Administrative Matters

EMI SIG Meeting: Cliff Glantz and Dorothy Cohen discussed the status of the 2011 Emergency Management Issues Special Interest Group (EMI SIG) meeting planning. This annual meeting will be May 2-5, 2011 at the Charleston Marriott in Charleston, SC; sponsored by Savannah River Nuclear Solutions. The 95 abstracts that were submitted have been reviewed by the EMI SIG Steering Committee, and the EMI SIG conference agenda has been completed; which can be viewed on the EMI SIG website. Registration for the conference and hotel reservations can be accomplished online at the EMI SIG website. Nine abstracts were referred to SCAPA and two abstracts to the DOE Meteorological Coordinating Council (DMCC). The SCAPA, DMCC, and Hazard Assessment Subcommittee (HASC) meeting agendas are in the final stages of completion, and all three of these meetings will be taking place on Monday, May 2, 2011. The DMCC and the HASC will meet in parallel in the morning and will come together in the late morning for a joint session with SCAPA. The full SCAPA meeting will be in the afternoon. The full EMI SIG conference will be held May 3-4. SCAPA Working Groups and the NARAC User Group will hold meetings during open periods on May 1, 2011, May 3, 2011 and May 4, 2011. On May 5, 2011, Steve Homann and Carl Mazzola will be presenting a full day workshop and computer practicum on HOTSPOT 2.07.02.

American Nuclear Society (ANS) 3rd International Topical Meeting on Emergency Preparedness & Response (EP&R) and Robotics & Remote Systems: Carl discussed the progress of the American Nuclear Society (ANS) 3rd International Topical Meeting on Emergency Preparedness & Response (EP&R) and Robotics & Remote Systems, which will be held at the Knoxville Marriott in Knoxville, TN, August 7-10, 2011. Forty-eight abstracts have been received, and 14 sessions have been formulated from these abstracts. Additional invited papers and panels will round out the topical meeting. The robotics and remote systems portion of the meeting attracted 69 abstracts. The total of 117 abstracts was one abstract higher than what was received at the 2008 Topical Meeting in Albuquerque, NM.

SCAPA Working Group Activities

Chemical Exposures Working Group (CEWG)

PAC/TEEL Revision 27 (Activity proceeding)

Jayne-Anne Bond mentioned that work continues on Protective Action Criteria (PAC)/Temporary Emergency Exposure Limits (TEEL) Revision 27. There will be minor updates made to the PAC/TEEL values for several chemicals, and direction from NA-41 on ways to update and improve the PAC/TEEL development process is forthcoming. NA-41 is also determining the best strategy on implementing recommendations provided by the external PAC/TEEL Methodology Review Committee and will announce the target date for the issuance of PAC/TEEL Revision 27 at the EMI SIG meeting

Chemical Mixtures Working Group (CMWG)

CMM Revision 26 (Activity can be closed)

Rocky Petrocchi indicated that the Chemical Mixture Methodology (CMM) Revision 26 workbook is ready to be posted along with an updated version of the User's Guide for the CMM Workbook. NA-41 approval is needed to publish.

CMM Revision 27 (Activity proceeding)

Rocky stated that the updating of Health Code Numbers (HCNs) for the final group of CMM chemicals has been completed and the 15% QA review on this batch of revised HCNs is well underway. This last group of updated HCNs will be incorporated into CMM Revision 27. Before CMM Revision 27 is issued, in conjunction with PAC/TEEL Revision 27, chemicals that are still assigned HCN values of 3.0 and 4.0 (i.e., codes conservatively designated for chemicals where no specific acute or chronic HCN values were assigned) will be re-examined in the hope that more specific HCNs can now be assigned.

Second HCN Technical Paper (Activity proceeding)

Rocky stated that work on a second HCN journal article, associated with using surrogate source terms in the CMM has been put aside until an appropriate set of chemicals can be established by John Ciolek and Xiao-Ying Yu. Instead, Xiao-Ying Yu is taking the paper in a slightly different direction. A first draft of this new paper is now being converted into a second draft, and it should be ready for final editing after Xiao-Ying returns from her maternity leave in mid-May, 2011. There is also early discussion on developing a third CMM technical paper.

Consequence Assessment Modeling Working Group (CAMWG)

Central Toolbox Registry—SQA & Candidate Models (Activity proceeding)

Cliff Glantz reported the SQA gap analysis review for the CAPARS modeling system is in its final stages. Work will be completed on the CAPARS review in March, 2011. The models to next be assessed are the NARAC modeling system and the APGEMS code, which is used at Hanford. It is hoped that one or both of these modeling systems will have their gap analysis reviews completed by the SCAPA annual meeting.

DOE O 414.1X (Activity proceeding)

At earlier teleconferences, Cliff Glantz had mentioned that DOE/HS-23 is developing a revision to the SQA order, DOE O 414.1D, which now addresses non-safety-related software. The order appears to be consistent with the SCAPA SQA guidance. DOE O 414.1D has completed the RevCom comment period and is currently at the final concurrence stage with the Directives Review Board. Upon completion of the Order revision, a revised version of DOE G 414.1-4 will be coordinated. Members of SCAPA are likely to play key roles in reviewing the revised DOE SQA Guidance documents. It should be emphasized that they will be conducting this review as representatives of their DOE sites and consequence modeling programs.

Biosafety Working Group (BWG)

BWG Technical Paper (Activity can be closed)

Jim Powers from NA-41, and Dionne Sentieri, Greg Horton and Frank Roberto from INL, submitted a paper to the *Applied Biosafety: Journal of the American Biological Safety Association*, that focuses on the incidence response planning conducted at DOE/NNSA laboratories for biological emergencies. The paper was accepted and will be published in the March 2011 issue.

Draft DOE Order 456.1 (Activity can be closed)

DOE released a draft order governing the safe handling of nanoparticles. DOE Order 456.1 establishes requirements and assigns responsibilities for activities involving unbound engineered

nanoparticles (UNP) (<https://www.directives.doe.gov/directives/draft-directives/456.1-BOrder/view>). Comments were completed in December; concurrence with the resulting changes was completed in February. The Order is waiting final action by the Directives Review Board and signature by the Deputy Secretary. No additional discussion. The activity will be tracked outside of SCAPA.

Source Term Working Group (STWG)

Non-Respirable Source Term (Activity proceeding)

Michele Wolfgram mentioned that the recommendation paper discussing the use of non-respirable source terms to ensure that non-respirable dose impacts (e.g., ground shine) is still under development by Wayne Davis. Wayne is incorporating information on deposition velocity from work being done by DOE/HS-21 and will send the paper out for review before the next teleconference

Dose-Equivalent Curies (Activity proceeding)

Michele Wolfgram mentioned that Dan Connors has been developing an objective statement on the use of Dose Equivalent (DE) Curies to support emergency planning and plume modeling during real events. The paper is expected to be released for limited peer review in the near future, followed by a full STWG review

SCAPA Web Page Report

Cliff Glantz reported a number of changes have been made on the SCAPA web pages including updated information on the EMI SIG 2011 meeting, other news events, and links to new publications.

EPA AEGLs Status

Po-Yung Lu reported that a few chemicals have had their AEGLs promoted from interim to final status. There are now 66 chemicals with final AEGLs, 192 chemicals in the interim status, 12 chemicals with proposed AEGLs, and 46 chemicals in a holding pattern, for a total of 316 chemicals. EPA has not scheduled a meeting of the AEGL National Advisory Committee (NAC) since April 2010.

AIHA ERPGs Status

Richard Thomas reported on recent Emergency Response Planning (ERP) Committee activities. The ERP committee held a meeting on February 9-11, 2011 in Tampa, FL to approve the final changes to the 2011 ERPG handbook which will be published in March 2011. Seven new chemicals received ERPGs and the ERPGs of three other chemicals were revised. The ERG will conduct the remainder of its 2011 meetings by teleconferences.



Round Robin

Joe Terranova (BNL)	Conducting an Emergency Preparedness hazard Assessment (EPHA) on a 40-pound cylinder of gaseous chlorine and is getting widely-varying results from the different chemical consequence models that are being used. The PAC-2 limit is reached at 225 m using NARAC, 2100 meters using ALOHA-Gaussian, 1050 m using ALOHA-heavy gas, and less than 1000 m using EPICODE. The question to be asked is which one is correct? Carl asked Joe to write-up this analysis for CAMWG commentary and peer review.
Joe Terranova (BNL)	A perfluorocarbon tracer study will be conducted at BNL in July 2011. Carl suggested Joe talk with Chuck Hunter, SRNL, who has also performed tracer studies and who has partnered with BNL in the past.

Next SCAPA Conference Call

The next SCAPA Conference call is scheduled for **Thursday, April 21, 2011 at 12:30 p.m. EDT.**

Adjournment

The teleconference adjourned at **2:27 p.m. EST.** Carl thanked everyone for their time and contributions.

SCAPA Program Action Item (AI) Status

Based on the information exchange from this teleconference, 11 activities were continued, two activities were closed, and one new activity was opened, for a total of 12 activities.

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