

**SCAPA PROGRAM TELECONFERENCE 08-02**  
**TUESDAY, MARCH 31, 2008; 2:00 PM-3:00 PM EDT**

**Teleconference 08-02 Participants**

Tom Bellinger, Y-12  
Lew Blumstein, NTS  
Jane-Ann Bol, ATL  
Dorothy Cohen, ORISE  
Doug Craig, ATL  
Wayne Davis, SRS  
Dave Freshwater, NA-41  
Cliff Glantz, PNNL  
John Harris, OROO  
Chuck Hunter, SRNL  
Jim Jamison, SAIC  
Vicki Locklair, NA-43  
Po-Yung Lu, ORNL  
Steve Luckett, NA-41  
Dan Marsick, HS-31  
Carl Mazzola, Shaw Environmental  
Dave Pegram, HS-31  
Bill Possidente, NTS  
Jim Powers, NA-41  
Frank Roberto, INL  
Diane Rodi, ANL  
Tom Tuccinardi, ATL  
Gary Winner, ANL

**Teleconference Highlights**

**I. Roll Call**

Carl Mazzola conducted a roll call, noting that 23 individuals involved in the SCAPA program were present. The teleconference was called to order. During the previous SCAPA conference call, 25 individuals participated.

**I. Administrative Matters**

**Previous Teleconference Highlights:** Carl Mazzola stated that the final highlights from the 1/31/08 SCAPA Program Teleconference 08-01 has been issued and ORISE will be posting it on the EMI SIG/SCAPA website.

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**SCAPA Action Item Status:** Carl Mazzola briefly discussed the latest updated SCAPA Program Action Item (AI) listing. Progress on closure continues since the last teleconference. At the time of this teleconference, 8 action items still remain open. The progress of these AIs will be discussed during today's teleconference.

**American Nuclear Society (ANS) Topical Meetings on Emergency Preparedness & Response (EP & R):** Carl Mazzola updated the status on the recently completed 10<sup>th</sup> Emergency Preparedness & Response (EP & R) at the Hotel Albuquerque in Old Town Albuquerque, NM, on March 9-12, 2008. The program had the following sessions of interest to NA-41 and its programs:

1. Hazardous Materials Characterization for EP & R;
2. Biosafety Operations and Emergency Response;
3. Emergency Response Systems & Equipment;
4. ENSEMBLE Atmospheric Modeling/Monitoring for EP & R in Europe;
5. Consequence Modeling & Assessment for EP & R – I;
6. Consequence Modeling & Assessment for EP & R – II;
7. Consequence Modeling & Assessment for EP & R – III;
8. Software Quality Assurance for EP & R;
9. Actual Events & Exercises – Lessons Learned; and,
10. Severe Weather Planning for Key Facilities.

**SCAPA Meeting Preparation:** Cliff Glantz and Carl Mazzola discussed the planning for the upcoming May 8, 2008 SCAPA meeting. The agenda is almost final with EPA, NBACC, NIH, and DTRA representatives participating. This year we will revert back to a one day meeting, with technical discussions woven into the five Working Group meetings, with a brief report back to the SCAPA members during the SCAPA meeting. Cliff reviewed the schedule for the meetings that will be taking place from May 5-8, 2008, inclusive of the DMCC, NARAC working group, and Hazards Assessment subcommittee. A special PAC TEEL CMM QA cookbook working meeting has been scheduled for Friday morning. The meeting will be taking place in Reston, VA about 7 miles from Dulles International Airport. There is shuttle service from Dulles to hotel, and bus service to the Metro which will take you to Reagan National Airport.

Carl Mazzola complemented ORISE on the user-friendliness of the EMI SIG meeting registration and hotel registration links.

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**III. SCAPA Working Group Activities**

**A. Chemical Exposures Working Group (CEWG) (Doug Craig, Chairman)**

**AI 05-03:** Cliff Glantz reported on the seven (7) activities associated with the PAC-TEELs and HCNs:

- (1) Development of the TEEL development procedure and various Quality Assurance (QA) procedures continues;
- (2) CMM Workbook and User's Guide update, and performance of additional Verification & Validation (V & V) work on the CMM continues to be addressed;
- (3) Configuration management plan development continues;
- (4) "TEELs Methods and Practice" handbook Rev Com comments were addressed, with all but three comments being editorial. There is a 30-day period to appeal the responses;
- (5) TEEL methodology cookbook with step-by-step procedures continues to be developed, although work on it was somewhat slower last month. However, extensive changes to Version 1 were made;
- (6) HCN development procedure has been improved and completed; and,
- (7) Summer intern through ORNL has been hired to assist the HCN development effort.

**ACTIVITY PROCEEDING.**

**AI 07-02:** Doug Craig reported that PACs Revision 24 will include columns for the derivation date and source of PACs, Lower Explosive Levels (LELs) and NFPA Health Hazard Ratings (HHRs). It was targeted to be available for the May 2008 EMI SIG and SCAPA Meetings, but that target looks like it will not be met. Po-Yung Lu is developing a schedule for review of the revised PACs and will be helped in this effort with the assistance of a graduate student. PACs Revision 23A is being delayed since the 2008 ERPGs have not yet been issued. Should the ERPGs continue to be late, it is possible that NA-41 may direct that the two PAC revisions be combined. **ACTIVITY PROCEEDING.**

**B. Chemical Mixtures Working Group (Doug Craig, Chairman)**

**AI 06-15:** The HCN backlog remains at approximately 700. **ACTIVITY PROCEEDING.**

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**AI 07-14:** Doug Craig or Xiao Ying Yu will be taking the lead in developing the CMM/HCN technical paper and the HCN development procedure will provide the nucleus of this paper. Donna Trot, the new intern will assist Xiao Ying Yu. **ACTIVITY PROCEEDING.**

**AI 07-15:** At an earlier teleconference, Carl Mazzola indicated that Jim Fairbent stated that a White paper on the impact of the CMM on upcoming DOE STD-1189 should be undertaken, as the CMM is discussed in Appendix B of that pending DOE standard. DOE STD-1189 was issued on March 31, 2008. **ACTIVITY PROCEEDING.**

**C. Consequence Assessment Modeling Working Group (Cliff Glantz, Chairman)**

**AI 06-01:** HOTSPOT code has been evaluated as a model for inclusion in the DOE/EH Central Registry Toolbox. The five critical actions of the gap analysis should be complete by the end of FY08 and at that point, HOTSPOT will become the 8<sup>th</sup> toolbox model. A progress report on this activity was presented at the 10<sup>th</sup> Topical Meeting on Emergency Preparedness & Response and will also be discussed at the EMI SIG, SCAPA and NARAC working group meetings. Wayne Davis indicated that a beta version of HOTSPOT 2.07 beta, which has closed some of gaps, is being tested. However, inclusion of the capability to include a 95% worst case meteorology is the largest effort that still needs to be completed.

Cliff mentioned that Steve Homann is seeking to enter into an agreement regarding sponsorship of the EPICODE chemical consequence assessment model and that discussions have begun to accomplish this.

At an earlier meeting, Cliff discussed the development of SQA Guidelines and consequence assessment modeling which is being performed by Alpha TRAC through their Data Quality Objectives (DQOs) effort. This work is based on meeting DOE O 414.1C and DOE Guide 414.1-4, with an emphasis on configuration management, V & V, and preparation of a SQA Plan. A first draft of this product, which is focused on safety software, is being reviewed by NA-41 (Steve Luckett) and after it is completed, it will be released to the DOE/NNSA emergency management community. Once the SQA procedures are available, the SQA work can move forward in earnest.

Cliff indicated that there were two presentations made on SQA at ANS topical meeting. One focused on consequence assessment modeling and the other on meteorological monitoring software. **ACTIVITY PROCEEDING.**

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**D. Biosafety Working Group (Frank Roberto, Chairman)**

**AI 06-06:** NA-41 requested BMG to address the transport and dispersion of biological agents/toxins released from DOE/NNSA biosafety facilities, which was left as an open subject in the Biosafety EMG. NA-41 indicated that there is a need to determine what models are available and appropriate for predictions, especially for laboratory-size source terms. In addition, NA-41 stated a need as to what are the limitations of the Gaussian models, and what other modeling tools are available or being developed. Lastly, because a level of severity will not likely be available for defining a PAC, there is a need to determine how the modeling results will be applied. Frank indicated that the ANS topical meeting session helped the group address this AI. There was a presentation on the indoor air quality CONTAM code by Stuart Dols. CONTAM, which was developed 20 years ago at NIST for fire safety division, is being used in the biodefense area. LBNL is using components of CONTAM for monitor placement. Frank is discussing the incorporation of CONTAM into NARAC. Carl Mazzola stated that SCAPA may need to address CONTAM SQA matters.

Frank Roberto discussed the highlights of a BWG conference call that took place on February 14, 2008 which had good participation. There was discussion on the Biosafety Working Group affiliating with the larger American Biological Safety Organization, and on a notice of an EPA nanotechnology meeting on ES & H issues. The Biosafety Work Group is working with Dan Marsick's task force which is addressing nanotechnology biosafety issues.

At an earlier teleconference, Dina Matz volunteered to develop a one-page SCAPA project plan for submission to NA-41 to move forward with this project which may result in the development of infective dose values, or ranges, for various infectious agents. A proposal to obtain some funding to resolve the difficult issues is in preparation. No further activity to report. **ACTIVITY PROCEEDING.**

**AI 07-07:** At an earlier teleconference, NARAC indicated willingness to share documentation that has been prepared regarding its biowarfare modules with the Biosafety Working Group (BWG). This activity will be tied in with AI 06-06, which is tracking the integration of the CONTAM code into NARAC. **ACTIVITY CAN BE CLOSED.**

**E. Source Term Working Group**

No additional discussion, as this working group is still looking for a chairman to lead it.

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

Tom Tuccinardi indicated the upcoming EMU on the removal of oxygen from the Revision 23 PACs, has been approved by NA-41 and sent to ORISE for posting. Future EMUs are being planned to present the new CMM updates, the SCAPA and DOE-HS toolboxes, the SQA Plan, and announcement of new SCAPA products.

Cliff Glantz discussed several updates to the SCAPA web page which will include information on the upcoming SCAPA meeting and on other important links.

**V. EPA AEGLs Status**

Po-Yung Lu reported on EPA/AEGL activities. There are presently 169 final and interim AEGL values. The next NAC AEGL meeting will be in June in Boston, MA where 20 new chemicals will be considered. Po-Yung will coordinate AEGL activity relative to PACs Revision 23A.

Carl Mazzola mentioned that Paul Tobin, EPA, who is leading the AEGL effort, has been invited to present at the SCAPA meeting.

**VI. AIHA ERPGs Status**

Richard Thomas was unavailable to report on the Emergency Response Planning (ERP) Committee activities. Richard will coordinate ERPG activities relative to PACs Revision 23A.

**VII. EPA PAGs Status**

Gustavo Vazquez was unavailable to discuss the status on the PAGs.

Carl Mazzola indicated that Ed Tupin, EPA, will be a speaker at the upcoming SCAPA meeting and will report on the status of the new EPA PAGs.

**VIII. Round Robin**

**Wayne Davis:** Savannah River Site (SRS) is using the new ICRP 68/72 Dose Conversion Factors (DCFs) in its WINDS and HOTSPOT codes. Wayne noted that the NARAC web and *iClient* links do not use these new DCFs and to use them, a call has to be made to NARAC to have them input manually. In order to remedy this situation, NA-42 approval is needed.

Wayne also mentioned that EPA policy is that you should use the best available DCFs in any consequence assessment work.

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Wayne discussed DOE STD-1189 Appendix B and mentioned that the CMM discussion is somewhat difficult to understand. Carl Mazzola indicated that he is working with Dick Englehart, HS-31, on developing a FAQ on Appendix B.

**IX. Next SCAPA Conference Call**

The next SCAPA Conference call will be scheduled during the May 8, 2008 SCAPA Meeting.

**X. Adjournment**

The teleconference was adjourned at **2:54 p.m. EST**. Carl thanked everyone for their time and their contributions.

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

Based on the information exchange from this teleconference and the SCAPA Meeting, one AI was closed (AI 07-07), and no new AIs were opened, since the previous teleconference, making a total of 7 AIs that remain.

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*