

SCAPA PROGRAM TELECONFERENCE 08-01
TUESDAY, JANUARY 31, 2008; 2:00 PM-3:00 PM EDT

Teleconference 08-01 Participants

Bryan Baumann, Fluor-Hanford	Tom Bellinger, Y-12
Lew Blumstein, NTS	Ann Marie Bol, ATL
Doug Craig, ATL	Brian Drouin, SRS
Dave Freshwater, NA-41	Gerry Gibeault, INL
Cliff Glantz, PNNL	John Harris, OROO
Jim Jamison, SAIC	Vickie Locklear, NA-43
Po-Yung Lu, ORNL	Dan Marsick, HS-31
Greg Martin, SAIC	Pete Matonis, INL
Carl Mazzola, Shaw Environmental	Brenda Mikkola, VAS
Michelle O'Shaughnessy, SRS	Rocky Petrocchi, WGI
Bill Possidente, NTS	Judy Ryland, ORISE
Brad Salmonson, INL	Tom Tuccinardi, ATL
Kerry Ward, INL	

Teleconference Highlights

I. Roll Call

Carl Mazzola conducted a roll call and acknowledged that 25 individuals involved in the SCAPA program were present. The teleconference was called to order and Carl thanked Dorothy Cohen for setting up the teleconference call. During the previous SCAPA conference call, 25 individuals also participated.

II. Administrative Matters

Carl Mazzola and Cliff Glantz led the discussion on three SCAPA administrative matters.

Previous Teleconference Highlights: Carl Mazzola stated that the final highlights from the 12/4/07 SCAPA Program Teleconference 07-05 has been issued and ORISE will soon be posting it on the EMI SIG/SCAPA website.

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, 12 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 of the 10th Emergency Preparedness & Response (EP & R) at the Hotel Albuquerque in Old Town Albuquerque, NM, on March 9-

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12, 2008. The program has been established and the following sessions are of interest to NA-41 and its programs:

1. Hazardous Materials Characterization for EP & R (Jim Fairbent and Dave Freshwater);
2. Biosafety Operations and Emergency Response (Frank Roberto and Dina Matz);
3. Emergency Response Systems & Equipment (Carl Mazzola and Steve Vigeant);
4. ENSEMBLE Atmospheric Modeling/Monitoring for EP & R in Europe (Bob Buckley and Stefano Galmarini);
5. Consequence Modeling & Assessment for EP & R – I (Rob Addis);
6. Consequence Modeling & Assessment for EP & R – II (Brad Schrader);
7. Consequence Modeling & Assessment for EP & R – III (Doug Osborn);
8. Software Quality Assurance for EP & R (Cliff Glantz);
9. Actual Events & Exercises – Lessons Learned (Pete Fledderman); and,
10. Severe Weather Planning for Key Facilities (Walt Schalk)

III. SCAPA Working Group Activities

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

Doug Craig and Cliff Glantz led the discussion and provided an update on the following four CEWG action items and activities.

AI 05-03: Cliff reported on the many activities associated with the development of PAC-TEELs: (1) The draft plan on the TEEL SQA documentation has been provided to ATL and a revised version will be ready for general review in the next few weeks; (2) The procedure for TEEL development and various Quality Assurance (QA) procedures continue under development; (3) The need to update the CMM Workbook and User's Guide, perform additional Verification & Validation (V & V) work on the Chemical Mixture Methodology (CMM) continues to be addressed; (4) Work on a configuration management plan has begun and it will be developed some time in FY08; (5) The "TEELs Methods and Practice" handbook was placed on Rev Com on January 21, 2008 and its review will be closing in a few days. The comment resolution period is 60 days and Tom Tuccinardi has the comments from DOE/HS; (6) Dr. Lisa Hooper, SNL, has offered comments on the PAC-TEELs, which are being addressed through the QA process; (7) Jane-Anne Bol (ATL) and Tom Tuccinardi are developing a TEEL methodology cookbook with step-by-step procedures; (8) The HCN development procedure has been updated after receiving comments from the TEELs Advisory Group (TAG); and, (9) Po-Yung Lu is working to get a summer intern through ORNL to assist the HCN development effort.

ACTIVITY PROCEEDING.

AI 07-02/07-16: There are usually two PAC revisions published each year. One revision is published after the EPA AEGL committee and the AIHA ERP committee each release new and updated AEGLs and ERPGs, while the other revision incorporates TEELs for new chemicals

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that were requested and developed over the preceding year. The latter revision is normally targeted to be available for the EMI SIG and SCAPA meetings. Since the release of the new ERPGs has been delayed, Rocky Petrocchi, an ERP member, will get an advanced copy to the new and revised ERPGs to expedite the effort. However, it may not be prudent to publish separate revisions if the new ERPGs come out close to when we would normally put the next revision containing newly developed TEELs. There are a number of quality assurance steps that must be taken to put out a new revision. NA-41 will make the ultimate decision on the content of the next PAC revision and the timing of its release. Since there may only be one revision of the PAC data set published this year, AI 07-16 will be closed and future efforts will be tracked under AI 07-02. **ACTIVITY PROCEEDING.**

AI 07-11: At a previous teleconference Tom Tuccinardi briefly discussed the draft Succession Plan and Cliff indicated that the mentorship position to work on the HCNs is a key element which should be filled as soon as possible, and that training materials should also be developed as rapidly as possible to train the protege and several others involved in these working groups. No additional discussion. **ACTIVITY PROCEEDING.**

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

Doug Craig and Rocky Petrocchi led the discussion and provided an update on the following three CMWG action items and activities.

AI 06-15: The HCN backlog remains at approximately 700, and the future intern will play an important role in working off this backlog. Rocky Petrocchi continues to revise the HCN development procedure. **ACTIVITY PROCEEDING.**

AI 07-14: Doug Craig will be taking the lead in developing the CMM/HCN technical paper and the HCN development procedure will provide the nucleus of this paper. **ACTIVITY PROCEEDING.**

AI 07-15: At an earlier teleconference, Carl indicated that Jim Fairobent stated at the SCAPA Program meeting that a White paper on the impact of the CMM on upcoming DOE STD-1189 needs to be undertaken, as the CMM is discussed in Appendix B of that pending DOE standard. No additional discussion. **ACTIVITY PROCEEDING.**

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

Cliff Glantz led the discussion and provided an update on the following three CAMWG action items and activities.

AI 06-01: The HOTSPOT code has been evaluated as the 8th model for inclusion in the DOE/EH Central Registry Toolbox. The five critical actions of the gap analysis should be

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complete by the end of FY08 when HOTSPOT Version 2.07 is issued. Once they are completed, HOTSPOT will become the 8th toolbox model. A progress report on this activity will be presented at the 10th Topical Meeting on Emergency Preparedness & Response.

Cliff also 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, Verification & Validation (V & V), and preparation of a SQA Plan. This product, which is focused on safety software, will be released to the DOE/NNSA emergency management community soon. Once the SQA procedures are available, the SQA work can move forward in earnest. **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). No information received from NARAC. **ACTIVITY PROCEEDING.**

AI 07-12: At an earlier teleconference, Carl Mazzola suggested that a succession plan should also be developed for the Consequence Assessment Modeling Working Group (CAMWG) since the Software Quality Assurance (SQA) and DOE/HS/SCAPA Toolbox efforts are blossoming. No additional discussion **ACTIVITY PROCEEDING.**

D. Biosafety Working Group (Frank Roberto, Chairman)

Frank Roberto was unavailable to lead the discussion and provide an update on the following BWG action item. A BWG conference call is scheduled for February 13, 2008 to provide an update and discuss emerging issues.

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. Several indoor air quality models, including the PNNL CONTAM indoor air quality model are being investigated. LBNL also has a mature indoor modeling capability and a model named COMIS, which is highly dependent on building configuration and HVAC design. INL has examined the CONTAM code and a presentation will be made at the 10th EP & R Topical Meeting.

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

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of infective dose values, or ranges, for various infectious agents. A proposal to obtain some funding to resolve the difficult issues is in preparation. **ACTIVITY PROCEEDING.**

E. Source Term Working Group (Carl Mazzola, Acting Chairman)

Carl Mazzola led the discussion and provided an update on the following STWG action item.

AI 07-13: The STWG is in need of a champion and Carl asked the conferees to provide a candidate. **ACTIVITY PROCEEDING.**

IV. SCAPA Web Page and EMU Report

Tom Tuccinardi discussed the upcoming EMU on the removal of oxygen from the Revision 23 PACs, which is under ATL review and will be released shortly. 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.

V. EPA AEGLs Status

Po-Yung Lu reported on EPA/AEGL activities. He indicated that the National Advisory Committee (NAC) met in Orlando, FL on December 5-7, 2007, and has issued AEGLs for many new chemicals. Po-Yung will coordinate AEGL activity relative to PACs Revision 23A.

VI. AIHA ERPGs Status

Richard Thomas was unavailable to report on the Emergency Response Planning (ERP) Committee activities. The next meeting will take place in Park City, UT on March 13-14, 2008. 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.

VIII. Round Robin

John Harris (ORNL): John discussed the recent fatality in Oak Ridge, TN due to a vehicular accident on black ice. There was an incident investigation by the meteorological working group and Kevin Birdwell, ORNL meteorologist, has experimented with an infra-red detector which covers too little territory to be of meaningful use. A road network of temperature sensors to characterize the microscale temperatures would work but will be cost-prohibitive. Rocky Petrocchi indicated work is being done using a magnesium chloride spray to provide a eutectic

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surface. INL also shared that it had experienced a major ice-related incident. No clear path forward is apparent to avoid a future incident of this type.

IX. Next SCAPA Conference Call

Carl Mazzola tentatively scheduled the next SCAPA Conference call for **Wednesday, March 26, 2008 at 2:00 p.m. EDT.**

X. Adjournment

The teleconference was adjourned at **3:00 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, and no new AIs were opened, since the previous teleconference, making a total of 11 AIs that remain. Subsequent to the teleconference, three additional AIs were closed, leaving 8 AIs.

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