

SCAPA PROGRAM TELECONFERENCE 07-04
THURSDAY, SEPTEMBER 20, 2007; 2:00 PM-3:00 PM EDT

Teleconference 07-04 Participants

Tom Bellinger, Y-12 Lew Blumstein, NTS Larry Campbell, Fluor-Hanford Bob Cornish, OST Jeng Cheng, NA-41 Doug Craig, ATL International Wayne Davis, WSMS Dave Freshwater, NA-41 Gerry Gibeault, INL Cliff Glantz, PNNL Chuck Hunter, SRNL Jim Jamison, SAIC Johnson, Brent	Po-Yung Lu, ORNL Dan Marsick, DOE/HSS-11 Greg Martin, SAIC Carl Mazzola, Shaw Environmental John Nasstrom, NARAC Rocky Petrocchi, WGI Frank Roberto, INL Brad Salmonson, INL Tom Tuccinardi, Excalibur Gustavo Vazquez, HS-21 Kerry Ward, INL Gary Winner, ANL
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Teleconference Highlights

I. Roll Call

Carl Mazzola conducted a roll call and 25 individuals involved in the SCAPA program were present. The teleconference was called to order. Carl thanked Dorothy Cohen for setting up the teleconference call. During the previous SCAPA conference call, 27 people participated.

II. Administrative Matters

Carl Mazzola and Cliff Glantz led the discussion on 3 (three) SCAPA administrative matters.

Previous Teleconference Highlights: Carl Mazzola stated that final highlights from the 7/12/07 SCAPA Program Teleconference 07-03 has been issued. Dorothy Cohen will soon post it on the EMI SIG/SCAPA website.

SCAPA Action Item Status: Carl Mazzola briefly discussed the latest updated SCAPA Program Action Item (PAI) listing. Since the last teleconference, progress on closure has continued. At this time, 17 action items remain open. Progress on many of these AIs will be discussed during today's teleconference.

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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, to be held on March 9-12, 2008. Ninety-nine (99) abstracts have been accepted and the authors will be notified by September 30, 2007. Full-length paper submissions are due on November 11, 2007. Late submissions and panels will add to this total.

Following are topics that interest SCAPA members:

1. Guides, standards, and regulations
2. Late breaking research/issues
3. Hazardous materials and consequence analysis
4. Consequence modeling at DOE/NNSA facilities
5. International consequence assessment modeling
6. Urban search and rescue applications
7. Severe weather support at nuclear facilities
8. Planning for continued operation / safe shutdown and surveillance of a hazardous material facility during a pandemic
9. Software quality assurance requirements for EP&R
10. Security issues and analysis
11. Infrastructure and transportation
12. Public and media relations
13. Actual events and exercises - lessons learned
14. Emergency response systems and equipment
15. Human factors
16. New and emerging technologies for EP&R

III. SCAPA Working Group Activities

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

Doug Craig led the discussion and provided an update on three CEWG action items and activities.

AI 05-03: Cliff reported that development of TEEL SQA documentation continues. He said that the TEELs method and practice document is complete and the 2005 Donoso report is almost complete. In addition, the procedure for TEEL development, various Quality Assurance (QA) procedures; and the SQA Plan are in the development stage.

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Tom Tuccinardi is developing a succession plan with roles and responsibilities. Lastly, a configuration management plan will be developed in FY08. **ACTIVITY PROCEEDING.**

AI 07-02: Protective Action Criteria (PACs) Revision 23 is posted on the DOE/HS web site. The change from Revision 22 was the elimination of the oxygen PAC. NA-41 provided specific directions to the PAC on Revision 24 efforts at its September 11-12, 2007 TEELs Advisory Group (TAG) meeting. Future PAC efforts will concentrate on applying more comprehensive QA criteria to many of the chemicals that in earlier versions developed PACs to ensure their fidelity and incorporation into the retirement of TEELs when new ERPGs and AEGLs are released. This usually occurs in January. **ACTIVITY PROCEEDING.**

AI 07-03: Cliff Glantz and Dorothy Cohen have completed significant efforts to streamline the process of getting future PACs on the SCAPA and DOE/HS web pages.
ACTIVITY CAN BE CLOSED.

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

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

AI 04-23/06-15: At the CEWG/CEMG meeting in San Antonio, TX, a backlog of 917 HCNs for the PACs Revision 20-23 chemicals was reported more resources are needed to apply this work. Rocky reported that the backlog has not significantly diminished. Po-Yung Lu and Richard Thomas will assist in working on the backlog and Rocky will be revising the HCN development procedure. **ACTIVITY PROCEEDING.**

AI 07-04: Rocky indicated a beta version of the CMM Workbook has been tested and after Cliff Glantz and Vern McDougall complete their reviews the Workbook will be posted on the SCAPA web page. **ACTIVITY CAN BE CLOSED.**

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

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

AI 05-05: At earlier teleconferences, there was a discussion on NARAC ingestion of the ARCON96 model. John Nasstrom indicated that the ARCON96 empirical coefficients were applicable only to Eulerian Gaussian codes and not the NARAC-type Lagrangian particle-in-cell code. Therefore, this task will no longer be pursued. **ACTIVITY CAN BE CLOSED.**

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AI 05-07: At earlier teleconferences, Wayne Davis discussed the progress on determining an appropriate Dose Conversion Factor (DCF) for use with EPHAs and consequence assessment models. Wayne had received concurrence from Joel Rabofsky, DOE/EH-52, Office of Worker Protection Policies and Programs that any DOE/NNSA site can change its protocol and use ICRP-68/72 DCFs. Representatives of the Federal Radiological Monitoring and Assessment Program (FRMAP) have recently petitioned EPA to use ICRP 60/70 methodology for long-term applications. Wayne is finishing a White Paper and will provide a summary of the findings by November. **ACTIVITY PROCEEDING.**

AI 06-01: At earlier teleconferences, Cliff Glantz stated that the HOTSPOT code is undergoing evaluation as the 8th model for inclusion in the DOE/EH Central Registry Toolbox. Several SCAPA members prepared a gap analysis report. The HOTSPOT author stated that he will complete the five critical actions by January 2008 when HOTSPOT Version 2.07 is issued. Once they are completed, HOTSPOT will become the 8th toolbox model. The remaining item will incorporate the capability to determine if 95% of meteorology is being funded by NA-41. Reed Hodgkin continues the development of an SQA requirements document for SCAPA SQA models, PAC software and meteorological data (e.g., Data Quality Objectives), has more flexibility than provided in DOE O 414.1C. A draft is expected by September 30, 2007 for an internal SCAPA review. **ACTIVITY PROCEEDING.**

AI 07-01: At the May 2007 CAMWG Meeting, Cliff Glantz mentioned that DOE Order 414.1D will soon be issued and SCAPA should provide a review. This order has not been issued. When it is, Cliff will coordinate the SCAPA review. **ACTIVITY CAN BE CLOSED.**

AI 07-06: At the May 2007 CAMWG Meeting, Chuck Hunter indicated willingness to share information that SRNL has on the RAMS-LPDM model and its verification and validation by SRS field studies. Chuck stated he is developing a paper on the subject for the 10th EP&R Topical Meeting. **ACTIVITY PROCEEDING.**

AI 07-07: At the May 2007 BWG Meeting, John Nasstrom indicated he was willing to share documentation prepared about NARAC biowarfare modules with the working group. There was a discussion on non-weaponized biological material source term information and its decay rates in the environment in an Official Use Only (OUO) report. **ACTIVITY PROCEEDING.**

AI 07-10: At the May 2007 SCAPA Meeting, EPA presented the progress on the EPA-400 PAG revision. Gus Vazquez gave an update that will be recorded later in this teleconference. **ACTIVITY PROCEEDING.**

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D. Biosafety Working Group (Frank Roberto, Chairman)

Frank Roberto led the discussion and provided an update on two BWG action items and activities.

AI 06-06: NA-41 requested BMG to address the transport and dispersion of biological agents/toxins released from DOE/NNSA biosafety facilities. This item was left as an open subject in the Biosafety EMG. NA-41 indicated there is a need to determine what models are available and appropriate for predictions, especially for laboratory-size source terms. Additionally, NA-41 stated a need for the limitations of the Gaussian models, and other modeling tools that are available or being developed. Lastly, 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.

At the SCAPA meeting a discussion on several indoor air quality models, including the PNNL CONTAM indoor air quality model took place. LBNL also has a mature indoor modeling capability and a model named COMIS, which is highly dependent on building configuration and HVAC design. INL is determining if use of the CONTAM code is appropriate. Additionally, a CONTAM presentation will be made at the 10th EP&R Topical Meeting.

There was discussion of this topic during the July 17, 2007 BWG teleconference. During this discussion, it was concluded that there are a spectrum of agents to address and many labs are working this issue. Information learned from the 2001 anthrax attack, relative to its dispersal in a building, may be useful. Dina Matz has volunteered to develop a one-page SCAPA project plan for submission to NA-41, to move forward with this project. The project could result in the development of infective dose values or ranges, for various infectious agents. A proposal to obtain funding for resolving the difficulties of this issue is in preparation.

ACTIVITY PROCEEDING.

AI 06-17: The biosafety working group established a good working relationship with the National Nanotechnology Initiative (NNI). **ACTIVITY CAN BE CLOSED.**

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

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

AI 06-12: Cliff Glantz and Dorothy Cohen continue to populate the STWG web page. Fred Harper's explosion experiments at SNL are a good source of input to the compendium and this experimental data needs reconfiguration. Dave Freshwater stated that NA-41 does not have the resources for a project of this magnitude and other agency support will be required. A proposal will be developed. **ACTIVITY PROCEEDING.**

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IV. SCAPA Web Page and EMU Report

AI 07-03: Web site upgrades are progressing and the web site will continue to improve as new materials become available for posting. **ACTIVITY CAN BE CLOSED.**

AI 07-09: The first Emergency Management Update (EMU) newsletter was well-received. Tom Tuccinardi is developing a second EMU which will address the withdrawal of the oxygen PACs. **ACTIVITY CAN BE CLOSED.**

V. EPA AEGLs/EPA PAGs/DHS PALs Status

Po-Yung Lu reported on the EPA/AEGL activities. He indicated that the National Advisory Committee (NAC) will meet in Orlando, FL on December 5-7, 2007, and are to review 37 new chemicals. Po-Yung will coordinate AEGL activity relative to PACs Revision 24.

VI. AIHA ERPGs Status

Richard Thomas was unavailable to report on the Emergency Response Planning (ERP) Committee activities. Rocky Petrocchi shared that the ERP Committee plans to have a teleconference meeting in December 2007 and another meeting in Park City, UT in March 2008. Carl Mazzola suggested that the possibility of having the ERP Committee meet in conjunction with the 10 EP&R Topical Meeting should be explored. It is expected that as many as 20 new substances will have ERPGs by the end of 2007 and they will be published in early 2008. Uranium trioxide is likely to be on the list, while formic acid may be, but is not as likely. Richard will coordinate ERPG activities relative to PACs Revision 24.

VII. EPA PAG Status

Gustavo Vazquez reported on two initiatives EPA PAGs. He indicated that final PAGs are expected to be placed in the Federal Register on October 31, 2007 and will be subject to a 60-day public comment period. They will use ICRP 68/72 DCFs.

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VIII. Round Robin

Gus Vazquez mentioned that DOE Order 5400.5 will be updated once the PAGs become final and that process is expected to take 18 months. He requested volunteers to support this effort. Gus also stated that the DOE/EH-0173 revision will be placed in RevCom at the end of November 2007. Due to the length of the earlier discussions, there was no remaining time for additional round robin discussions.

IX. Next SCAPA Conference Call

Carl Mazzola tentatively scheduled the next SCAPA Conference call for **Tuesday, November 20, 2007 at 2:00 p.m. EDT.**

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X. Adjournment

The teleconference was adjourned at **3:01 p.m. EDT**. 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, seven AIs were closed, and no new AIs were opened, since the previous teleconference, making a total of 10 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.

Carl Mazzola will update the SCAPA action item list based on the information exchange from this conference call.

Respectfully Submitted,

Carl Mazzola