



Emergency Management Issues (EMI)
Subcommittee on Consequence Assessment
and Protective Actions (SCAPA)
Consequence Assessment Modeling Working
Group (CAMWG)

Highlights

MEETING OF THE CONSEQUENCE ASSESSMENT MODELING GROUP

TUESDAY May 8, 2007; 5:00 PM Central Daylight Time

Participants:

Scott Copper, OST
Doug Craig, ATL International
Wayne Davis, WSMS
Dave Freshwater, SAIC
Gerry Gibeault, INL
Cliff Glantz, PNNL
Eva Hickey, PNNL
Reed Hodgins, AlphaTRAC
Chuck Hunter, SRNL
Jim Jamison, SAIC
April Martin, WSMS Mid-America
Greg Martin, SAIC
Carl Mazzola, Shaw Environmental
Mark Miller, NOAA Hazmat
John Nasstrom, NARAC
Lori Thomas, NA-41
Richard Thomas, Intercet
Steve Vigeant, Shaw Environmental
Michele Wolfgram, WSMS Mid-America

Meeting Highlights

I. Roll Call

Cliff Glantz conducted a roll call and acknowledged that nineteen (19) individuals were present.

II. Discussion

Cliff Glantz, CAMWG Chairman, led the discussion which included the following topics:

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- 1. Dose Conversion Factors (DCF):** Wayne Davis discussed the status of the DCF migration from FGR-11 (ICRP-26/30) to FGR-13 (ICRP-68/72). He indicated that at Savannah River Site (SRS) the Emergency Preparedness Hazard Assessments (EPHAs) that are being prepared are invoking the use of FGR-13 DCFs, mainly on the basis of DOE/EH-52 concurrence with their use at DOE/NNSA sites. The EPA-400 draft (i.e., PAG) also has moved to this type of dosimetry and biokinetics. Lastly, TurboFRMAC also are using them. Wayne will develop a White Paper on the topic by June 2007.
- 2. HOTSPOT Software Quality Assurance (SQA) Evaluation:** Carl Mazzola reported on the evaluation performed by a six-member team led by Debra Sparkman for the DOE/EH Central Toolbox Registry on the HOTSPOT code. The evaluation, which was conducted from August 2006 through April 2007, concluded that HOTSPOT Version 2.07 can become the 8th safe harbor model in the Registry's toolbox with its gap analysis after it completes the work identified in five critical recommendations. The other seven models also have gap analyses that ultimately need to be closed. However, the closing of gap analyses can be a very expensive proposition. Carl also indicated that Nate Bixler, SNL, the MACCS2 custodian, will soon be submitting a later version of MACCS2 to the registry to close some of its gaps.
- 3. SCAPA Toolbox and DOE/NNSA SQA Practices:** Cliff Glantz opined on the SCAPA toolbox proposal which would be a parallel toolbox for emergency preparedness and response models as they do not have to follow the same rigor as nuclear safety codes for Documented Safety Analyses (DSAs) do. Potential codes for the SCAPA toolbox are NARAC, APGEMS and CAPARS. Debra Sparkman has concurred on this proposal. It was essentially agreed by consensus that the EPHA codes are definitely a Level B, and the consequence assessment codes, since they are not exclusively used for protective action decision making may not be as rigorous as a Level B, but would still require a reasonable level of SQA. Reed Hodgkin indicated that he has put CAPARS through ASME NQA-1 level SQA, which parallels DOE G 414.1-4 criteria. John Nasstrom prefers the SCAPA SQA program, as the DOE/EH SQA program is very expensive to undertake and is cumbersome. NARAC presently undergoes its own SQA process.
- 4. ALOHA SQA:** Mark Miller mentioned that the gaps in the ALOHA model analysis when it became a Registry toolbox model may never be closed. He was hoping for at least 75% closure.

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5. **SRNL SQA:** Chuck Hunter shared that SRNL uses a Level B SQA requirement for its Puff/Plume code. However, subjecting the LaGrangian forecast RAMS-LPDM to the Registry SQA is an enormously difficult task. RAMS/LPDM has been validated against tracer studies which Chuck would be willing to share with the DOE/NNSA community.
6. **SCAPA SQA Plan:** Cliff Glantz suggested that all sites share their SQA work. He indicated that he is developing a zero draft SCAP SQA Plan which he plans to circulate. After comments are incorporated and resolved, the next draft will be sent to Debra Sparkman for review and concurrence. The DOE/EH central registry is very receptive to this idea. Reed Hodgkin suggested that the working group define the requirements in terms of safety Data Quality Objectives (DQOs) and establish procedures to determine SQA. Reed will work with Cliff Glantz and Hoyt Walker of the NARAC staff to develop this concept further.
7. **NARAC Urban Near-Field Dispersion:** Carl Mazzola inquired as to the progress of the NARAC urban near-field dispersion module. NARAC is comparing the ARCON code with the DoD urban meteorology research to determine final algorithms.
8. **NARAC User Group Meeting and Training:** John Nasstrom announced that the next NARAC User Group meeting will be combined with NARAC training to be held at LLNL in August 2007.
9. **TurboFRMAC User-Friendliness:** Lori Thomas mentioned that the second edition of TurboFRMAC is not very user-friendly, as it is similar to the RASCAL field measurement to dose technique. John Nasstrom shared that this issue may be a better fit for the FRMAC Assessment Group.
10. Jim Fairobent closed the round robin portion of this meeting by indicating that it was his goal to get the toolbox in a stable configuration by 2008.



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III. Next SCAPA CAMWG Meeting

Cliff Glantz indicated that next SCAPA CAMWG teleconference has not yet been scheduled. The next SCAPA CAMWG meeting is scheduled for **Tuesday, May 6, 2008** during the next EMI-SIG meeting in Washington, DC.

IV. Adjournment

The meeting was adjourned at **6:00 p.m. MDT**. Cliff and Carl thanked everyone for their time and their contributions.