



Highlights DMCC Program Teleconference 11-01 January 18, 2011, 12:30 p.m. EST

Participants

Fernando Aluzzi, LLNL NARAC
Tom Bellinger, Y-12
Dave Freshwater, NA-41
Cliff Glantz, PNNL
Check Hunter, SRNL

Erik Kabela, SRNL
Carl Mazzola, Shaw Environmental
John Merrick, DOE/SR (Retired)
Gus Vazquez, HS-22

Roll Call

Carl Mazzola conducted a roll call and acknowledged that nine individuals involved in the DMCC program were present, and the first DMCC teleconference of 2011 was called to order.

Administrative Matters

Previous Teleconference Highlights and Action Items

Carl stated that highlights of the previous teleconference have been developed and are posted on the DMCC portion of the EMI SIG web page.

DMCC Action Item Status

Carl Mazzola indicated that seven DMCC Program activities are open, and the progress on these, as appropriate, will be discussed during the teleconference. In addition, the status of the active and upcoming assist visits (AVs) will also be discussed.

Fernando Aluzzi provided the name of the new LLNL meteorologist, Tony Wegrecki, wegrecki2@llnl.gov; (925) 423-9871. A DMCC representative will invite Tony to participate in DMCC activities, and his name will be added to the DMCC listserv.

11th EP & R Topical Meeting

The Call for Papers to the 11th Topical Meeting on Emergency Preparedness & Response web page is live (www.EPRRS.org), and 21 different topic areas will be covered in the conference sessions. More than 40 500-word abstracts have been stimulated so far. These abstracts, with no figures or tables, are due no later than January 28, 2011. They will be reviewed, and the authors of those selected will be informed by no later than February 28, 2011.

The topical meeting is scheduled for Knoxville, TN, August 7–10, 2011. Carl encourages everyone to post and stimulate additional abstracts as the goal is to have 80 abstracts.

EMI SIG 2011 Annual Meeting

The January 7 deadline to submit for the 2011 EMI SIG Meeting is past, and the EMI SIG Steering Committee is in the process of selecting presentations for the main meeting. Remaining presentations will be forwarded to DMCC for consideration in its meeting, as applicable to the meeting content and theme.



Walt Schalk and Carl Mazzola drafted a preliminary DMCC agenda and will continue to work on it during the coming weeks. The broad plan is to hold the DMCC Meeting from 7:30 a.m. to as late as noon, adjourn for lunch, and then hold the SCAPA meeting from 12:30 p.m. to as late as 6:00 p.m. on Monday, May 2, 2011. The EMI SIG Meeting will follow on May 3–4.

John Merrick will again be the meeting moderator. By the next teleconference, the agendas for both the DMCC and SCAPA meetings should be mature and ready for more discussion. After that discussion, final comments will be provided to ORISE.

Assist Visit Status

Carl Mazzola discussed the status of the ongoing DMCC Assist Visit (AV) program. Since the last teleconference, no new assist visits were reported. An update of earlier assist visits is as follows:

Site	DMCC Assist Visit Status
Brookhaven National Laboratory (BNL)	Joe Terranova is addressing the 17 observations and recommendations from the July 30–31, 2009 AV. BNL management funded a 0.75-FTE position and budgeted \$240,000 for instrumentation upgrades.
Hanford	Larry Berg and Ken Burk continue to address the 28 observations and recommendations from the September 25–26, 2008 AV.
Idaho National Laboratory (INL)	A follow-up AV on April 20–21, 2010, found nine new observations and recommendations and closed many of the 21 September 2004 AV observations and recommendations. ARL FRD expressed satisfaction with the AV effort.
Lawrence Livermore National Laboratory (LLNL)	LLNL lost its two operational meteorologists in the 2008 downsizing. It is the only major DOE/NNSA site lacking an AV. Its new meteorologist will be provided information about the DMCC and be invited to schedule an FY11 AV.
Los Alamos National Laboratory (LANL)	The next AV is scheduled for summer 2012, six years since its initial AV in August 2006.
Nevada National Security Site (NNSS)	The last AV was conducted in September 2007.
Oak Ridge National Laboratory (ORNL)	Kevin Birdwell continues to address the 23 observations and recommendations from the March 24-25, 2009 AV.
Pantex	The last AV was conducted in 1997. Carl will schedule an AV for FY11 if there is interest.
Sandia National Laboratory (SNL)	The last AV was in 2003. DMCC will combine SNL with LANL in 2012 if SNL agrees to a follow-up AV. Walt Schalk is in contact with Gina Deola.



Site	DMCC Assist Visit Status
Savannah River National Laboratory (SRNL)	Chuck Hunter continues to address the 11 observations and recommendations from the June 2009 AV, which were well received by both DOE and SRNL stakeholders.
Y-12	Tom Bellinger continues to address the 24 observations and recommendations from the May 24-25, 2008 AV.

DMCC Projects

AI 06-12: Meteorological Monitoring Software (Activity proceeding)

Cliff Glantz reports that the Software Quality Assurance (SQA) guidance for consequence assessment software will be posted on the SCAPA website during the current round of SCAPA website upgrades. When the SQA review is completed for the consequence assessment models selected as candidates for inclusion in the SCAPA Modeling Toolbox, attention will turn to developing DMCC SQA guidance for meteorological software. The DMCC will then consider the development of a DMCC Meteorological Software Toolbox for software that complies with the DMCC's SQA guidance.

DOE O414.1D was drafted and will be placed in RevCom on January 21, 2011. It is on the Deputy Secretary's expedited list of new and revised orders and is targeted for completion by March 23, 2011. The revised SQA order addresses non-safety related software more comprehensively and complements the SCAPA SQA initiative for consequence assessment models.

AI 07-02: DOE EH-0173 Update and Draft DOE O 458.1 (Activity proceeding)

Gus Vazquez provided a final status on the DOE EH-0173T update, which will become a companion to the upcoming revision of DOE O 5400.5, *Radiation Protection of the Public and the Environment* (DOE O 458.1). Draft DOE O 458.1 will also be consistent with 10 CFR 835 and DOE O 450.1A, closely aligned with Integrated Safety Management System (ISMS) requirements and containing requisite meteorological requirements. On January 6, 2011, the DOE Directors Review Board approved DOE O 458.1, and it is on the Deputy Secretary's desk for signature. It should be signed and issued within a week. Conforming changes were made to M 231.1-1 and other related DOE documents.

The revised 11-chapter 1991-vintage DOE/EH-0173T guidance is currently being updated to align with the new order. Once DOE O 458.1 is issued, the revision of DOE/EH-0173T can be completed to ensure consistency between the two documents. DOE/EH-0173T is expected to be issued 6–12 months after DOE O 458.1. At that time, Gus will request a DMCC review of Chapter 5 of DOE/EH-0173T, since that chapter was prepared in 2004.

AI 08-05: DMCC Consequence Assessment Self-Appraisal Guide (Activity can be closed)

The DMCC Consequence Assessment Self-Appraisal tool is complete and is posted on the DMCC web page. Its availability was shared by Walt Schalk with the Nuclear Utility Meteorological Data User Group (NUMUG). This tool can be used by DMCC and NUMUG members in self-appraisals.

Status of Related Federal/Private Sector Programs

AI 04-11: Meteorological Monitoring and Meteorological Modeling Voluntary Consensus Standards (VCSs)

DMCC members are involved in the development and maintenance of eight national voluntary consensus standards (VCSs) with the American Nuclear Society (ANS) as the Standards Development Organization (SDO). The following is a status of each of these eight standards development efforts:

- **ANSI/ANS-2.3:** Carl Mazzola reports that the ANSI/ANS-2.3 should be issued in early-2011, and it will support Natural Phenomena Hazard (NPH) DOE G 420.1A and other NPH guidance. **ACTIVITY PROCEEDING**
- **ANSI/ANS-2.15:** John Ciolek indicated at the last teleconference that ANS-2.15 would be sent to ANS-24 for concurrence review by November 30, 2010. It was not received by the ANS standards organization. John was unavailable for an update. **ACTIVITY PROCEEDING**
- **ANSI/ANS-2.16:** The ANS-2.15 working group will begin ANS-2.16 for accident release consequence assessment. This standard should develop faster due to many similarities with ANS-2.15. **ACTIVITY PROCEEDING**
- **ANSI/ANS-2.21:** Consensus review comments are being resolved, and publication is expected in early-2011. **ACTIVITY PROCEEDING**
- **ANSI/ANS-2.31:** A Project Initiation and Notification System (PINS) is complete, and a working group of meteorologist and hydrologists is being formed to develop a new standard on extreme precipitation events. Walt Schalk is on the working group. **ACTIVITY PROCEEDING**
- **ANSI/ANS-3.8.10:** The ANS-2.15 working group will begin ANS-3.8.10 for emergency response consequence assessment after it sends ANS-2.16 for consensus review. This standard should develop faster due to many similarities with ANS-2.16. **ACTIVITY PROCEEDING**
- **ANSI/ANS-3.11:** The standard is reaffirmed and will not reach its five-year sunset until the end of 2015. **ACTIVITY PROCEEDING**
- **ANSI/ANS-58.25:** The standard is associated with Level III probabilistic risk assessments that address both meteorological data (Section 4.7) and atmospheric transport and diffusion models (Section 4.8) for risk-informed safety evaluations is in consensus review. The standard is expected to be issued some time in 2011. **ACTIVITY PROCEEDING**

NNSA/DOE Site Initiatives

AI 09-01 Forecast Models on GPU Software (Activity proceeding)

Previously, John Ciolek reported that the National Center for Atmospheric Research (NCAR) continues to develop the WRF model on Graphical Processing Unit (GPU) hardware. John mentioned that NVIDIA has a timeline for new product development, and significant modifications to the graphics card are soon to be released. The card will be 50% faster and consume less power. In addition, NOAA continues working on WRF implementation using GPUs. John was unavailable to provide an update. Erik Kabela



shared that SRNL performed a simple GPU test for a dispersion model and noted a small improvement in calculation speed.

AI 09-08 Cyber Security White Paper (Activity proceeding)

Each individual nuclear power plant licensee has a Cyber Security Plan that is being reviewed by the Nuclear Regulatory Commission (NRC). These plans are designed to meet the NRC's cyber security rule (10 CFR 73.54) and incorporate key guidance from the NRC's 1-year old cyber security regulatory guidance document (Reg Guide 5.71). This Reg Guide is being revised by the NRC to fix a number of identified implementation issues (including improving the applicability of the Reg Guide to the full range of digital control systems found at nuclear power plants). It is unclear as to when the revision to RG 5.71 will be published. Regardless, the licensees' cyber security plans are to be approved by the NRC in FY11 based on the current guidance. Once all of the licensees' cyber security plans are approved, Cliff Glantz will begin work on a White Paper to show how the new cyber security requirements for safety, security, and emergency preparedness systems may be applicable for use at DOE/NNSA nuclear facilities and their meteorological programs. Cliff also shared that the week-long "pilot" cyber security training program was provided to an initial class of NRC inspectors.

AI 10-01 (Activity proceeding)

Meteorological Tower Site Encroachment: At a previous teleconference, Kevin Birdwell requested available guidance that is associated with erecting new meteorological towers and what pitfalls to avoid. Projected changes to the ORNL footprint result in encroachments on existing meteorological tower sites. Kevin was unavailable to update this item.

DMCC Web Page Report

Cliff Glantz reported on the recent DMCC web page improvements including the posting of the Consequence Assessment self-assessment tool. Cliff mentioned that the "Products" web page did not contain any introductory language for the assessment tool. He will develop this introductory material and provide it to ORISE to include on the web page. In addition, the 2010 DMCC Meeting Report had not yet been posted on the "Annual Workshops" web page.

New Business

No new business was raised.

Round Robin

Carl led a brief round robin discussion as follows:



<i>Site</i>	<i>Discussion</i>
PNNL	<p>Cliff Glantz</p> <p>The Hanford meteorological program will be transferred from PNNL to its prime contractor, HMS. This transition begins in the spring of 2011 with no expected loss of functionality. There is some uncertainty as to the fate of the three full-time Hanford Meteorology Station forecasters and the lead meteorologist. DMCC can provide program advice to Hanford Site during this transition and may be asked to assist.</p>
SRNL	<p>Chuck Hunter</p> <p>Last week's 2–3" snow-sleet-freezing rain event was correctly forecasted. The forecast models performed well. Several conference calls held at 12:30 a.m., Monday morning with SRNL Atmospheric Technology Group and Savannah River Site (SRS) senior management led to a decision to close SRS to all non-essential personnel on Monday. SRS was also closed on Tuesday.</p>
Y-12	<p>Tom Bellinger</p> <p>Y-12 had a similar snow event and provided the same top-notch forecasting services. The Oak Ridge Reservation was closed 2½ days, and a special snow route was set-up through the facilities. Y-12 management now receives forecasts for a period of five days</p>

Next DMCC Conference Call

The next call is scheduled for **Tuesday, March 15, 2011**. All 2011 DMCC conference calls are scheduled on the third Tuesday of every odd month (except May), unless circumstances dictate otherwise.

Adjournment

The teleconference adjourned at **1:21 pm EST**. Carl thanked everyone for their contributions.

DMCC Program Action Item (AI) Status

No new activities were opened, and one was closed. There are now six DMCC activities.

The color-coding system used in the teleconference highlights is as follows:

- Existing AIs that are not closed are colored green.
- New AIs are colored yellow.
- AIs to be closed are colored blue.

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

Respectfully Submitted,
Carl Mazzola