



Highlights DMCC Program Teleconference 10-05 November 16, 2010, 12:30 – 1:30 p.m. EST

Participants

Fernando Aluzzi, LLNL NARAC
Tom Bellinger, Y-12
John Ciolek, AlphaTRAC
Kirk Clawson, ARL FRD
Dorothy Cohen, ORISE
Cliff Glantz, PNNL

Erik Kabela, SRNL
Carl Mazzola, Shaw Environmental
Margaret McCalla, NOAA OFCM
John Merrick, DOE/SR (Retired)
Walt Schalk, ARL SORD (Chairman)

Roll Call

Carl Mazzola conducted a roll call, acknowledged that eleven individuals involved in the DMCC program were present, and called the teleconference to order. Walt welcomed Margaret McCalla (Margaret.r.mccalla@noaa.gov) to the teleconference. Margaret works for the National Oceanic and Atmospheric Administration (NOAA) Office of the Federal Coordinator for Meteorology (OFCM).

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 were open and that their progress will be discussed in today's conference call. The status of the active and upcoming assist visits (AVs) will also be discussed during this teleconference.

Walt Schalk briefed the conferees on the items recently sent around and posted to the website, which included a stability class determination e-mail from the NUMUG colleagues and NRC draft Regulatory Guide 1247, "Design Basis Hurricane and Hurricane Missiles for Nuclear Power Plants."

11th EP & R Topical Meeting

Carl Mazzola alerted the teleconference participants that the web page for the Call for Papers to the 11th Topical Meeting on Emergency Preparedness & Response is live (www.EPRRS.org). Twenty subjects are available, and 15 separate individuals have been selected to stimulate papers. The due date for 500-word abstracts, with no figures or tables, is December 10, 2010. The abstracts will be reviewed, and authors of those selected will be informed by January 28, 2011. The topical meeting will be held in Knoxville, TN, August 7-10, 2011.



EMI SIG 2011 Annual Meeting

Walt Schalk reminded everyone that the deadline to submit for the 2011 EMI SIG meeting is January 7, 2011. Jim Fairbent, NA-41 EMI-SIG Sponsor, would like to review all presentation proposals prior to final submission to ORISE. Walt Schalk requested that DMCC presentations be routed to him first, prior to submitting to Jim Fairbent. After these submissions have been evaluated, the first draft of the DMCC 2011 Meeting, which will be held in Charleston, SC, on May 2, 2011, will be developed.

Assist Visit Status

Carl discussed the status of the ongoing DMCC Assist Visit (AV) program 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 have funded a 0.75-FTE position and budgeted \$240,000 for instrumentation upgrades.
Hanford	Will Shaw continues to address the 28 observations and recommendations from the September 25-26, 2008 AV.
Idaho National Laboratory (INL)	A follow-up assist visit was conducted on April 20-21, 2010, with nine new observations and recommendations and closure of many of the 21 September 2004 AV observations and recommendations. ARL FRD expressed satisfaction with the AV effort.
Lawrence Livermore National Laboratory (LLNL)	The spring 2008 LLNL downsizing resulted in the loss of its two operational meteorologists. In addition, LLNL is the only major DOE/NNSA site that has not had an AV. Contact has been made with LLNL's Nicholas Bertoldo to provide information about the DMCC and discuss the possibility of a future AV. A site visit by Walt may be set-up in FY11. No additional contact has been made.
Los Alamos National Laboratory (LANL)	Scot Johnson postponed his request to have a follow-up AV in the summer 2010 by two years—until summer 2012, which will be six years since the 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 attempt to set-up an AV for FY11 if there is interest.
Sandia National Laboratory (SNL)	The last AV was in 2003. DMCC will attempt to combine SNL with LANL in 2012 if SNL agrees to a follow-up AV.



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

06-12 (Activity proceeding)

Cliff Glantz reported that the Software Quality Assurance (SQA) guidance for consequence assessment software has been distributed to members of the SCAPA Consequence Assessment Modeling Working Group and will soon be posted on the SCAPA website. A SCAPA modeling toolbox will be established for consequence assessment software that adheres to SCAPA's SQA guidance. Plans call for key DOE consequence assessment models to undergo a gap analyses against the SQA guidance by the end of FY11, with CAPARS selected as the first model. A review team has been formed for the CAPARS evaluation and hopes to complete its work within the next couple of months. The SCAPA Consequence Assessment Modeling Working Group will discuss the CAPARS SQA review effort during its November 17, 2010 teleconference.

Once the SQA review of consequence assessment models is completed, attention will turn to developing SQA guidance for meteorological software and a DMCC meteorological software toolkit will be developed.

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

At earlier teleconferences, Gus Vazquez provided a 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. Non-concurrences are resolved, and this order is in DOE management review and still expected to be issued in late-November 2010. Earlier, DMCC reviewed the meteorological section of the draft and did not have any comments.

The revised 11-chapter 1991-vintage DOE/EH-0173T guidance has been updated to align with the new order and is still being held at HS-20. 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 it was prepared back in 2004.

AI 08-05: DMCC Consequence Assessment Self-Appraisal Guide (Activity proceeding)

NA-41 comments to the draft DMCC Consequence Assessment Self-Appraisal Guide were provided on January 5, 2010. Steve Vigeant and Carl Mazzola developed responses to the comments. Final

comments were received on November 15, 2010, and a final draft will be prepared for one last stakeholder review. This tool is expected to be completed in December 2010 and subsequently made available to DMCC members for use 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 presents the status of each of these eight standards development efforts:

- **ANSI/ANS-2.3:** Carl Mazzola reported that the ANSI/ANS-2.3 should be issued in late-2010, and it will support Natural Phenomena Hazard (NPH) DOE G 420.1A and other NPH guidance. **(Activity proceeding)**
- **ANSI/ANS-2.15, ANSI/ANS-2.16, and ANSI/ANS-3.8.10:** John Ciolek indicated that ANS-2.15 will be sent to ANS-24 for concurrence review by November 30, 2010. **(Activity proceeding)**
- **ANSI/ANS-2.16:** John Ciolek indicated that the ANS-2.15 working group will begin ANS-2.16 for accident release consequence assessment. This standard should be developed much faster since there are a lot of similarities with ANS-2.15. **(Activity proceeding)**
- **ANSI/ANS-2.21:** Carl Mazzola for Steve Vigeant reported that ANSI/ANS-2.21 is resolving consensus review comments, and publication is expected in late-2010. **(Activity proceeding)**
- **ANSI/ANS-2.31:** Carl Mazzola, who is on this working group, noted that a Project Initiation and Notification System (PINS) have been prepared, and a working group continues to be formed to develop a new standard on extreme precipitation events. Walt Schalk is on the working group that will be populated with meteorologists and hydrologists. **(Activity proceeding)**
- **ANSI/ANS-3.8.10:** John Ciolek indicated that 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 be developed much faster since there are a lot of similarities with ANS-2.16. **(Activity proceeding)**
- **ANSI/ANS-3.11:** Carl Mazzola for Matt Parker mentioned that ANSI/ANS-3.11 has been reaffirmed and will not reach its five-year sunset until the end of 2015. **(Activity proceeding)**
- **ANSI/ANS-58.25:** Carl Mazzola reported on the standard associated with Level III probabilistic risk assessments that addresses both meteorological data (Section 4.7) and atmospheric transport and diffusion models (Section 4.8) for risk-informed safety evaluations. The working group has submitted it for consensus review. The standard is expected to be issued in early-2011. **(Activity proceeding)**



NNSA/DOE Site Initiatives

AI 09-01 (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 is still working on WRF implementation using GPUs. Erik Kabelá shared that SRNL had performed a simple GPU test for a dispersion model and noted a small improvement in calculation speed.

AI 09-08 (Activity proceeding)

NRC issued Regulatory Guide 5.71 on cyber security in January 2010. Presently, NRC is preparing updates to the regulatory guide that should be issued in early-2011, and the nuclear power plant licensees have developed cyber security plans that are being reviewed by the NRC. Once the cyber security plans have been approved by the NRC, Cliff Glantz will begin work on a White Paper as to how new cybersecurity requirements for safety, security, and emergency preparedness systems may affect DOE/NNSA nuclear facilities and their meteorological programs. John Merrick, who has had much experience in DOE security circles, expressed interest in learning more about this activity.

AI 10-01 (Activity proceeding)

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 are resulting in encroachments on existing meteorological tower sites. Kevin was unavailable to update this item.

DMCC Web Page and DMCC Forum Reports

DMCC Web Page: Cliff Glantz reported on the recent DMCC web page improvements and the website is up to date.

New Business: Round Robin

No new business was raised.

(Round Robin continued on next page)

Carl led a brief round robin discussion on new business items:

<i>Site</i>	<i>Discussion</i>
<i>INL</i>	<p>Kirk Clawson</p> <p>ARL FRD continues to adapt HYSPLIT to INL.</p>
<i>NNSS</i>	<p>Walt Schalk</p> <p>The new name for the Nevada Test Site (NTS) is Nevada National Security Site (NNSS).</p> <p>The ARL SORD lightning detection system is being upgraded this week. Vaisala, the vendor, is onsite installing software onto the new servers and moving data over from the old computers. They will take back strike data and run an analysis then calibrate the sensors after the holidays.</p> <p>ARL SORD is working hard to get a SODAR since radiosonde releases at Desert Rock stopped over the summer due to equipment failure. NWS-LAS are slated to begin launches from Las Vegas in January 2011 or February 2011. Once a SODAR is purchased, Cliff Glantz would like to know what was chosen and the reasons for the selection.</p> <p>ARL SORD has been asked to prepare another budget briefing for NNSA.</p>
<i>PNNL</i>	<p>Cliff Glantz</p> <p>Hanford had a ferocious wind storm the other night. The Rattlesnake Mountain meteorological tower recorded a wind gust of 108 mph with an 82 mph sustained wind.</p> <p>The Hanford meteorological program is currently slated to be transferred from PNNL to the Hanford Site prime contractor. This transition is likely to begin in the spring of 2011. There is some uncertainty as to the fate of the three full-time Hanford Meteorology Station forecasters, each with over 20 or 30 years of meteorological observation and forecasting experience at the Hanford Site. DMCC is in a position to provide program advice to Hanford Site during this transition and may be asked to assist.</p> <p>Kirk Clawson inquired whether there would be any impact on support for APGEMS with this management change. Cliff indicated that the change of meteorological program contractors would have no impact on APGEMS and MetView. These modeling systems are supported by the Hanford Emergency Preparedness program which has long been operated by the Hanford Site prime contractor.</p>
<i>SNL</i>	<p>John Ciolek</p> <p>CAPARS is currently being implemented at SNL, and software is being modified to account for the local terrain. The model is expected to be operational in January 2011.</p>
<i>SRNL</i>	<p>Erik Kabela</p> <p>SRNL has implemented its Storm Ready automated watch warning advisory to remote workers at Savannah River Site (SRS).</p> <p>SRNL is resolving a jurisdictional issue with the National Weather Service (NWS) in Columbia, SC. The NWS does not recognize county boundaries, of which SRS has three. This can</p>



	cause confusion, especially at the Aiken and Barnwell county border, which intersects some of the areas at SRS. NWS, in conjunction with DOE, will create a SRS county to avoid confusion within 6-12 months.
Y-12	<p>Tom Bellinger</p> <p>Y-12 has sent in its application to become a Storm Ready community, and 60 individuals have received spotter training. Y-12 expects to be Storm Ready within three months.</p> <p>Y-12 is beginning its winter preparedness program; especially after the harsh winter it experienced in 2009-2010.</p>

Next DMCC Conference Call

The next DMCC Conference call is scheduled for **Tuesday, January 20, 2011**. All future 2011 DMCC conference calls are schedule to be conducted the third Tuesday of every odd month, with the exception of May, unless circumstances dictate otherwise.

Adjournment

The teleconference was adjourned at **1:27 p.m. EST**. Carl thanked everyone for their time and contributions.

DMCC Program Action Item (AI) Status

Based on the information exchange from the DMCC Meeting and this teleconference, no new activities were opened and none closed. This number of DMCC activities remains at seven.

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.
- 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