

DOE METEOROLOGICAL COORDINATING COUNCIL



2008 ANNUAL REPORT

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1.0 Introduction

This compilation of information represents the fourth Annual Report of the activities associated with the Department of Energy (DOE) Meteorological Coordinating Council (DMCC), which also serves as the Meteorology Topical Committee (MTC) under the DOE Technical Standards Program Office (TSPO). Annual reports, describing the DMCC activities, will be prepared each year the program is active, and each annual report will be updated four months later to support the presentation to the Emergency Management Issues Special Interest Group (EMI SIG) Steering Committee, which meets the first Monday of every May, just prior to the EMI SIG Meeting.

The DMCC was chartered more than 14 years ago on December 2, 1994, at the Nevada Operations Office (NVOO) in Las Vegas, NV, under the direction and oversight of the Stockpile Stewardship program at NVOO. Its central focus is to coordinate activities of the meteorological programs that exist throughout the DOE in the absence of such function anywhere within the DOE organization. In April, 2004, the DMCC program was integrated with other programs associated with the EMI SIG under the oversight of the DOE Office of Emergency Management (OEM). It is also closely linked to the TSPO MTC.

The four DMCC objectives are to:

1. Promote cost-effective meteorological support for all DOE facilities;
2. Facilitate the use of common meteorological methods, procedures, and standards;
3. Plan for future meteorological needs, requirements and missions; and,
4. Advocate awareness of atmospheric science applications and benefits to DOE.

The DMCC accomplishes its objectives by using the following seven methods:

1. Encourage interchange of technical information between DOE offices;
2. Foster the development of atmospheric monitoring equipment and systems;
3. Acquire and disseminate atmospheric data products to meet Departmental needs and requirements;
4. Promote consistency of monitoring and assessment products and services;
5. Interface with appropriate agencies, academics, and professional organizations;
6. Make recommendations on equipment procurements, replacements and modifications to benefit DOE operations; and,

7. Provide consultation and technical assistance to foster cooperation and research among the DOE meteorological programs.

The DMCC conducts annual technical/business meetings and five-six teleconference meetings each year. It also conducts Assist Visits (AVs) and augments site self-assessments. These activities are focused on helping the DOE meteorological program managers and their staff of meteorologists, technicians, and specialists to effectively execute their many missions which include the protection of the health and safety of DOE workers and the public.

The DMCC supports activities of the Office of Emergency Management and Policy (NA-41), the DOE Office of Health Safety and Security (HS), and the Office of Science (SC). DMCC works with similar Departmental groups to improve the provision of quality-assured meteorological information and the effective execution of transport and dispersion models that meet applicable Software Quality Assurance (SQA) requirements.

Walt Schalk, ARL/SORD, is the current DMCC Chairman. The DMCC membership, which encompasses subject matter experts (SMEs) within the DOE complex, involves four specific components:

1. Department of Commerce (DOC)/National Oceanic and Atmospheric Administration (NOAA) under individual Interagency Agreements with DOE/NNSA. They are located at the Nevada Site Office (NSO), the Idaho National Laboratory (INL) and the Oak Ridge Reservation (ORR);
2. National Laboratories
 - Argonne National Laboratory (ANL)
 - Brookhaven National Laboratory (BNL)
 - Lawrence Livermore National Laboratory (LLNL)
 - Oak Ridge National Laboratory (ORNL)
 - Pacific Northwest National Laboratory (PNNL)
 - Savannah River National Laboratory (SRNL)
3. Management & Operating (M&O) contractors of DOE/NNSA sites; and,
4. Private contractors.

DOE has delegated the operation of its site/facility meteorological programs to captive DOC Laboratories, National Laboratories, and non-Federal for-profit M&O contractors.

2.0 2008 Annual Meeting and Teleconferences

2.1 2008 Annual Meeting

The DMCC convened at the Hyatt Hotel, Reston, VA on May 5, 2008. This was the 15th meeting that the DMCC has sponsored since its inception. The meeting was called to order by the DMCC Chairman, Walt Schalk, who is also the Director, National Oceanic and Atmospheric Administration Air Resources Laboratory/ Special Operations and Research Division (NOAA ARL/ SORD).

This meeting was held to present new DMCC initiatives to its membership and associates, to share the many DMCC accomplishments over the past 13-1/2 years, and to provide discussions on recent advancements in the atmospheric sciences to the DMCC membership. Meeting accomplishments were many and are listed as follows:

- Provided a forum for DMCC members and DMCC associates to review accomplishments, products and projects;
- Discussed the mission and implementation of organizational goals; and,
- Resolved outstanding objectives, including:
 - DOE/NNSA site meteorological program managers were provided an opportunity to discuss their programs and web sites and obtain feedback from the DMCC membership on various issues they were facing;
 - Several technical presentations from external organizations on relevant operational and research topics were provided to the DMCC membership to enhance their knowledge of the atmospheric sciences and assist them in their program execution;
 - Two DOE Headquarter (HQ) elements (i.e., Office of Emergency Management and Policy [NA-41]; Office of Nuclear Safety and Environmental Policy [HS-21]) associated with the atmospheric sciences provided updates on their programs and how these offices' programs are affecting the meteorological programs of the DMCC membership;
 - New DMCC products were discussed and the DMCC Assist Visit program was reviewed;
 - A DMCC Business Meeting was convened to discuss relevant DOE/NNSA meteorological program issues, and where DMCC should be focusing its energies in FY09 and beyond;

- Discussions took place on the FY08 accomplishments and FY09 planning of the DMCC.

Seventeen members were in attendance at the 15th DMCC meeting and four others attended remotely via Microsoft Live Meeting. The 21 attending members and their respective affiliations are listed below. A meeting report was developed and will be posted on the DMCC website. The 16th DMCC meeting will be held on May 4, 2009 in San Francisco, CA, in conjunction with the EMI SIG meeting.

<u>Individual</u>	<u>Affiliation</u>
Tom Bellinger	BWXT Y-12 (Live Meeting)
Kevin Birdwell	Oak Ridge National Laboratory (ORNL)
Ken Burk	Pacific National Northwest Laboratories (PNNL)
Vic Cassella	Brookhaven National Laboratory (BNL) (Live Meeting)
John Ciolek	Alpha-TRAC, Incorporated
Kirk Clawson	National Oceanic and Atmospheric Administration Air Resources Laboratory/Field Research Division (NOAA ARL/FRD)
Mark FitzGerald	Office of the Federal Coordinator for Meteorology (OFCM)
Jim Fairobent	DOE/NA-41
Cliff Glantz	Pacific Northwest National Laboratory (PNNL)/Hanford
Brad Harvey	Nuclear Regulatory Commission (NRC)
Chuck Hunter	Savannah River National Laboratory (SRNL)
Erik Kabela	Savannah River National Laboratory (SRNL)
Carl Mazzola	Shaw Environmental & Infrastructure (SE&I)
Jeanne McBride	Oak Ridge Institute for Science and Education (ORISE)
John Merrick	Consultant
Fred Mogolesko	Consultant (Live Meeting)
Jeremy Rishe I	Pacific Northwest National Laboratory (PNNL)/Hanford
Walt Schalk	National Oceanic and Atmospheric Administration Air Resources Laboratory/ Special Operations & Research Division (NOAA ARL/SORD)
Jason Tuell	Office of Science and Technology/ National Oceanic and Atmospheric Administration (OST/NOAA)
Gus Vazquez	DOE Office of Health, Safety, and Security, Nuclear Safety and Environmental Policy (HS-21)
Steve Vigeant	SE&I (Live Meeting)

2.2 2008 Teleconferences

Five DMCC teleconferences took place in 2008 on the following dates:

- 08-01: January 29, 2008: 11 individuals participated;
- 08-02: April 1, 2008: 10 individuals participated;
- 08-03: July 8, 2008: 13 individuals participated;
- 08-04: September 16, 2008: 12 individuals participated; and,
- 08-05: December 3, 2008: 12 individuals participated.

The teleconferences focused on the open action items, the status of the AVs, and a round-robin to discuss common issues.

Counting the individuals that were involved in DMCC activities in 2008, a total of 31 individuals participated in some aspect of the DMCC program.

3.0 2008 Accomplishments

The DMCC was involved in 28 specific projects of various scope and size in 2008. The following briefly summarizes each effort.

3.1 Support to DOE/NNSA Sites

- A follow-up Assist Visit was conducted on May 28-29, 2008 at the Y-12 site. The previous Assist Visit was performed in May 2004.
- An Assist Visit was conducted on September 25-26, 2008 at the Hanford site.
- Discussions continued with SRNL to conduct an Assist Visit at the Savannah River Site (SRS). Preliminary dates for the visit have been set for mid-May 2009.
- Discussions continued with representatives of the Pantex site to conduct a follow-up Assist Visit. The last Assist Visit was conducted in April 1997.
- Discussions continued with representatives of the INL site to conduct a follow-up Assist Visit. The last Assist Visit was conducted in September 2004. INL intends to write a letter to the DMCC to respond to the September 2004 Assist Visit observations and recommendations and will likely request a follow-up Assist Visit in 2010 or 2011. INL has been funded to upgrade its consequence assessment model which was a primary DMCC observation/recommendation.
- Discussions continued with a representative of the Brookhaven National Laboratory (BNL) to conduct an Assist Visit.
- Discussions continued with representatives of the LANL site to conduct a follow-up Assist Visit. The last Assist Visit was conducted in August 2006.
- DMCC continues its discussions with the Waste Isolation Pilot Plant (WIPP) meteorological program manager and he may request a follow-up Assist Visit in 2010, as WIPP has had such visits every three years since 1999. The last WIPP Assist Visit occurred in August 2005.
- The function and scope of ARL/SORD at the Nevada Test Site (NTS) was independently reviewed for NSTec, the M&O Contractor in September 2007. A follow-up on the progress of the recommendations was conducted June 16, 2008.
- The DMCC web page has been fully integrated into the EMI-SIG/Subcommittee on Consequence Assessment and Protective Actions (SCAPA) web page to provide easier access to DMCC reports and information for each DOE/NNSA site.

- The DMCC Web Forum is active and up and running.
- DMCC has developed a Self-Assessment Guide which is a useful product for DOE/NNSA meteorological monitoring programs. The Guide was made available to all DOE/NNSA sites at the 2008 EMI SIG meeting.
- DMCC is developing a Self-Assessment Guide for the meteorological aspects of DOE/NNSA consequence assessment programs which will be made available to all DOE/NNSA sites at the 2009 EMI SIG meeting.
- DOE/NNSA sites indicated a need to have the National Center for Environmental Prediction (NCEP) revise its Rapid Update Cycle (RUC) resolution relative to mesoscale forecast modeling. The DMCC made this happen.
- The NTS-developed fire forecasting tool has been developed and will be made available to DOE/NNSA sites in 2009.
- Los Alamos National Laboratory (LANL) is being provided ad hoc assistance with its upgrade of its meteorological program to sonic anemometers.
- An instrumentation survey of the DMCC members is being undertaken.
- The source code for the Aerial Location of Hazardous Atmospheres (ALOHA) model is being sought for DOE/NNSA site use.

3.2 Support to Federal Organizations

- DMCC worked with the DOE Office of Nuclear Safety and Environmental Assistance (HS-22) to determine a linkage between the environmental monitoring programs in DOE O 231.1 *Environmental Safety and Health Reporting* and meteorological data programs.
- For the 11th consecutive year, DMCC facilitated the development of the DOE appendix to the OFCM annual Federal Plan. The appendix contains a description of the meteorological operational and research programs at 15 DOE/NNSA sites.
- DMCC is monitoring the progress of SQA as it applies to meteorological data through its relationship with the DOE Central Registry, and is advising both the public and private sectors. Several technical papers were presented on the subject at the 10th Topical Meeting on Emergency Preparedness & Response (EP&R), Albuquerque, NM, in March, 2008.

3.3 Support to the Private Sector

- The voluntary consensus standard (VCS), ANSI/ANS-3.11(2005), which was developed by many DMCC members, was published in June 2006. This standard is referenced in the revised Chapter 4 of DOE/EH-0173T *Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance*. In June, 2008, the working group reconvened at the Nuclear Utility data Meteorological User Group (NUMUG) Meeting and determined that the standard does not need to be revised and can just be reaffirmed in 2010.
- DMCC continued its association with the private sector meteorological trade group, NUMUG, by attending its June 2008 meeting in Charlotte, NC, and presenting several technical papers including SQA of meteorological data. Carl Mazzola completed his 18-month term as NUMUG Chairman in June 2008. DMCC intends to support the next NUMUG meeting in October 2009 in San Francisco, CA.
- DMCC members are also participating in working groups associated with the development of five additional VCSs that involve the application of meteorological data. The following is a status on each of the standards:
 1. **ANSI/ANS-2.3** *Determining Tornado and Other Extreme Wind Characteristics at Nuclear Facility Sites*: This standard for tornadoes is outdated and does not account for NRC and DOE technical approach differences, nor does it address extreme straight-line winds. Technical material in this standard will be used in DOE's Natural Phenomena Hazards (NPH) standards work (DOE G 420.1-2 *Guide for the Mitigation of Natural Phenomena Hazards for Nuclear Facilities and Non-Nuclear Facilities* and new DOE standard on meteorological NPHs). The ANS-2.3 chairman indicated he hoped to have a draft of the standard for consensus review in early 2009;
 2. **ANS-2.15** *Criteria for Modeling and Calculating Atmospheric Transport of Routine Releases from Nuclear Facilities*., **ANS-2.16** *Criteria for Modeling Design-Basis Accidental Releases from Nuclear Facilities*, and **ANS-3.8.10** *Criteria for Modeling Real-Time Releases at Nuclear Facilities*: A Working Group (WG) met on June 25, 2008 in Charlotte, NC at NUMUG Meeting. An ANS-2.15 Conference call was held on November 13, 2008 with the WG which hopes to have draft standard for consensus review in time for the NUMUG Meeting in October 2009. After the ANS-2.15 draft is completed, the WG will begin work on ANS-2.16 and ANS-3.8.10;
 3. **ANS-2.21** *Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink*: This standard will provide guidance on selecting appropriate meteorological parameters for Ultimate Heat Sink (UHS) applications. The Working Group draft for consensus review is expected some time in 2009.

4. **ANS-3.11** *Determining Meteorological Information at Nuclear Facilities*
The Working Group also met at the June 2008 NUMUG meeting, and it was determined that there is no compelling need to revise the standard and a reaffirmation analysis will be performed prior to its November 2010 sunset.

3.4 Special Projects

- The 15th DMCC Meeting took place on May 5, 2008 in Reston, VA, as part of the EMI SIG meeting. A meeting report was developed and posted on the DMCC web page.
- Technical Papers were stipulated for the 10th Topical Meeting on Emergency Preparedness & Response (EP&R) which is sponsored by the American Nuclear Society (ANS). Several sessions will be conducted by the Office of Emergency Management (OEM) and its consultants. The topical meeting took place in Albuquerque, NM, March 8-12, 2008.
- Planning has been initiated for an 11th Topical Meeting on EP&R to be held in Knoxville, TN in August 2011. An organization meeting will take place in Oak Ridge, TN on December 8, 2008.

4.0 Web Page and Forum

4.1 Web Page

The DMCC webpage continues to be a living document, reflecting the work that DMCC members are conducting. Within the EMI SIG web page is a section for DMCC postings which includes links to meeting notes from previous DMCC meetings. The website is <http://www.ornl.gov/emi/scapa/dmcc.htm>.

The EMI SIG web page is continually improving and covering more timely topics. The web page looks the way it does today due to the hard work by Oak Ridge Institute for Science and Education (ORISE). An HS-22 individual has complimented its content and navigability.

Continued work on better hyperlinks and human engineering is planned for 2009. Suggested links were to the OFCM, ANSI/ANS standards, ALOHA download, Meteorological Acquisition and Data Ingestion System (MADIS), Environmental Protection Agency (EPA) Support Center for Regulatory Atmospheric Modeling (SCRAM) model page, and DMCC Annual Reports. Applicable DOE orders and guides will also be added to the web page (e.g., DOE G 231.1 *Occurrence Reporting and Performance Analysis Guide*, DOE O 458.1 (formerly DOE O 5400.5 *Radiation Protection of the Public and the Environment*) when approved.

4.2 Web Forum

John Ciolek manages the DMCC forum which serves the DMCC membership in the following ways. It is:

- a place to store important ideas;
- a place to document important debate;
- a great way to invite more participation in the DMCC;
- a good mechanism for searching through the DMCC body of knowledge;
- a great way to demonstrate to na-41 what the group is involved in; and,
- a very inexpensive way to continually get collaboration on many topics without having to organize a meeting or a teleconference.

John will continue to improve on this excellent communications product in 2009.

5.0 Action Items

On January 1, 2008, there were 16 open DMCC action items. All Assist Visit (AV)-related action items were closed as the progress of the AV program is being tracked outside of the action items. The following shows the progress on each of these antecedent action items during 2008. Items still open are shaded in light blue:

AI No.	Description	1/1/08 Status	12/31/08 Status
04-11	Continue development work on ANSI/ANS-2.3, -2.15, -2.16, 2.21, 3.8.10, and 3.11	These six standards are in various stages of development.	Work is moving forward on all six voluntary consensus standards.
06-01	Pantex Self-Assessment	Discussions ongoing.	Discussions ongoing. CLOSE.
06-02	Hanford Assist Visit	Cliff Glantz indicated that Hanford may be open to an AV in 2008.	Assist Visit conducted September 25-26, 2008 and draft report issued on December 15, 2008. CLOSE.
06-03	INL Follow-up Assist Visit	INL drafting letter. AV helped FY07 request for an improved transport and dispersion model.	Discussions ongoing. Assist Visit update likely in 2010 or 2011. CLOSE.
06-08	LANL Assist Visit	AV conducted on August 8-9, 2006. LANL is acquiring an improved transport and dispersion model and upgrading monitoring system with sonic anemometry.	DMCC continues to discuss implementation with LANL. CLOSE.
06-09	WIPP Assist Visit	WIPP will be addressing the AV observations and recommendations.	Discussions ongoing. CLOSE.
06-12	Consequence Assessment SQA	Cliff Glantz is tracking implementation of consequence assessment modeling and meteorological data requirements.	<ul style="list-style-type: none"> • Technical paper presented at the 10th Topical Meeting on Emergency Preparedness & Response. • Task force and draft guideline under development. • Meteorological data requirements will be combined with meteorological models SQA effort.
06-14	BNL Assist Visit	BNL meteorologist provided with a Statement of Work.	Discussions ongoing. CLOSE.

AI No.	Description	1/1/08 Status	12/31/08 Status
07-02	EH-0173T Update	HS-22 is providing periodic updates of the EH-0173T revision.	Revision to 1991 technical guide has been prepared and will be reviewed after completion of related DOE O 458.1 (formerly DOE O 5400.5) update through HS-22 organization. DMCC will be reviewing the meteorology chapter. DOE O 458.1 also has a small section on meteorological data.
07-03	SRNL Assist Visit	SRNL will be requesting a DMCC AV at SRS, in part due to DOE O 226.1 <i>Implementation of Department of Energy Oversight Policy</i> self-assessment requirements.	SRNL Assist Visit will take place in May 2009. CLOSE.
07-04	RUC Resolution	NCEP needs to revise RUC resolution. DMCC has contacted NCEP.	NCEP responded positively and resolve action item. CLOSE.
07-05	INL Wind Pattern Study and Climatology Update	INL agreed to make two ARL/FRD products, the INL Wind Pattern Study and INL Climatology Update, available to DMCC members.	INL provided climatology update. Wind pattern study was not accepted for publication. CLOSE.
07-06	NTS Fire Forecasting Tool	NTS-developed fire forecasting tool available to be made available to DMCC members.	Will be made available when it is completed in 2009.
07-08	DMCC blog	DMCC membership requested that a DMCC blog be developed. Blog implementation being studied.	DMCC Forum up and running. CLOSE.
07-09	Technique for Locating Meteorological Towers for Complex Terrain Modeling	Observing System Simulation Experiments (OSSE) report that addresses locating meteorological towers to maximize their influence on wind field generation is being evaluated for use by DMCC meteorological program managers.	Report had confidentiality issues and will not be distributed. CLOSE.
07-10	Eliminate ALOHA 60-minute calculation limit	DMCC has contacted NOAA Hazmat to develop a patch.	Patch is not available. CLOSE.

Twelve of the 16 antecedent action items were satisfied and closed in 2008, leaving four of the pre-2008 action items that will be carried into 2009.

Six new DMCC action items were opened in 2008. The following shows the status of the 2008 action items:

AI No.	Description	12/31/08 Status
08-01	DMCC Forum	Up and running. CLOSE.
08-02	LANL Sonic Anemometer Testing	LANL was given NUMUG point of contact which did this exact work in the early-2000s for the Tennessee Valley Authority (TVA). DMCC is assisting, as needed.
08-03	DOE/NNSA Meteorological Program Equipment Survey	NUMUG has performed a survey of its members which can be used as a starting point. DMCC mini-survey is under preparation for review by DMCC members.
08-04	SRS field mill technical paper	Technical paper has been made available and has been posted on the DMCC Forum. CLOSE.
08-05	DMCC Consequence Assessment Guide	Earlier version of guide is consistent with Volume 4 of DOE G 151.1-1 and draft DOE G 151-XY. A draft is under review by DMCC and the SCAPA Consequence Assessment Modeling Working Group (CAMWG).
08-06	ALOHA Source Code Acquisition	Initial contact has been made with NOAA Hazmat.

On December 31, 2008, eight action items were still open. This includes one action item from 2004, one action item from 2006, two action items from 2007, and four action items from 2008. Open action items are highlighted in light blue.

As of December 31, 2008, the AV program is very active with two AVs performed in 2008 and at least two AVs scheduled for 2009.

6.0 2009 Activities and Priorities

Prioritization of the following projects and activities will be developed at the biannual DMCC program meetings with NA-41, and at other meetings and teleconferences with DMCC leadership.

At least 20 DMCC activities are planned for 2009. They include:

1. Organize, facilitate and conduct the 16th DMCC Meeting in San Francisco, CA and develop a meeting report to be posted on the web page;
2. Conduct Assist Visits at ORNL, BNL, Pantex, WIPP, SRNL, and other DOE/NNSA sites, as requested;
3. Continue to improve the DMCC web page and periodically post relevant information;
4. Continue to promote the DMCC Forum;
5. Assist in planning efforts for the 11th Topical Meeting on EP&R;
6. Continue support of the working groups associated with the development of six VCSs associated with the monitoring and application of meteorological data;
7. Assist DOE/NNSA meteorologists with implementation of DOE/EH-0173T, DOE O 458.1 (when approved), ANSI/ANS-3.11 (2005), and the meteorological aspects of the Consequence assessment portion of DOE G 151.1-1 and draft DOE G 151-XY, at their sites;
8. Facilitate preparation of DOE meteorological programs appendix to FY10 OFCM Federal Plan;
9. Interface with NUMUG, especially with respect to meteorological data SQA considerations, and support its October 2009 meeting;
10. Provide input to OFCM Joint Action Groups (JAGs) and projects, in support of DOE/SC, if requested;
11. Develop additional useful products for the DOE/NNSA sites, as directed by NA-41;
12. Develop the DMCC member instrumentation survey;
13. Acquire the source code for the ALOHA model, in conjunction with the SCAPA CAMWG;

14. Continue addressing meteorological data SQA;
15. Provide the NTS-developed fire forecasting tool to all site meteorologists;
16. Continue to provide assistance to LANL with its new sonic anemometers;
17. Brief DOE/NNSA sites on the use of the DMCC Assist Visit Guide;
18. Issue the DMCC Assist Visit Consequence Assessment Program Guide; and,
19. Facilitate site technical report sharing with DMCC membership.

Additional activities will be undertaken, as appropriate, after receiving approvals from NA-41.

7.0 Conclusion

The DMCC program continued to effectively serve the DOE/NNSA complex in 2008, with participation from numerous DOE/NNSA sites/facilities. Since becoming part of the EMI SIG organization, the DMCC has strengthened and continues to be more active. A well-attended and broad-based DMCC Meeting was held on May 5, 2008 in Reston, VA. Many of the DOE/NNSA sites, as well as DOE/HQ elements, continue to show interest in the various DMCC programs.

Expectations are high for another productive year in 2009. The annual DMCC Meeting has been scheduled for May 4, 2009, in San Francisco, CA.

DMCC members will continue to support the following organizations and activities:

1. DOE Technical Standards Program Office (TSPO) Meteorology Technical Committee (MTC);
2. SCAPA CAMWG; and,
3. National Atmospheric Release Advisory Center (NARAC) User Group.

8.0 ACRONYMS

The following is a list of acronyms used in this report:

A

AI	Action Item
ALOHA	Areal Locations of Hazardous Atmospheres
ANL	Argonne National Laboratory
ANS	American Nuclear Society
ANSI	American National Standards Institute
ARL	Air Resources Laboratory
ARL/FRD	Air Resources Laboratory/Field Research Division
ARL/SORD	Air Resources Laboratory/Special Operations and Research Division
ASPP	Atmospheric Sciences and Power Production
AV	Assist Visit

B

BNL	Brookhaven National Laboratory
BWXT	Y-12 M & O Contractor

C

CA	California
CAMWG	Consequence Assessment Modeling Working Group

D

DG	Draft Guide
DHS	Department of Homeland Security
DMCC	DOE Meteorological Coordinating Council
DNFSB	Defense Nuclear Facility Safety Board
DOC	Department of Commerce
DOE	Department of Energy
DOE/HQ	DOE Headquarters
DOE/SC	DOE Office of Science

E

EH	Environmental Health
EMI SIG	Emergency Management Issues Special Interest Group
EPA	Environmental Protection Agency
EP&R	Emergency Preparedness & Response
ES&H	Environmental Safety & Health

F

F-H Fluor-Hanford
FRD Field Research Division
FY Fiscal Year

G

H

HQ Headquarters
HS DOE Office of Health Safety and Security

I

ICMSSR Interagency Council for Meteorological Services and Supporting Research
INL Idaho National Laboratory

J

JAG Joint Action Group

K

L

LANL Los Alamos National Laboratory
LLNL Lawrence Livermore National Laboratory

M

M&O Management & Operating
MADIS Meteorological Acquisition and Data Ingestion System
MTC Meteorology Topical Committee

N

NA-41	DOE Office of Emergency Management
NARAC	National Atmospheric Release Advisory Center
NC	North Carolina
NCAR	National Center for Atmospheric Research
NCEP	National Center for Environmental Prediction
NESHAP	National Environmental Standard for Hazardous Air Pollutants
NM	New Mexico
NNSA	National Nuclear Security Administration
NOAA	National Oceanic and Atmospheric Administration
NPH	Natural Phenomena Standard
NRC	Nuclear Regulatory Commission
NSO	Nevada Site Office
NTS	Nevada Test Site
NUMUG	Nuclear Utility data Meteorological User Group
NV	Nevada
NVOO	Nevada Operations Office

O

O	Order
OEM	Office of Emergency Management
OFCM	Office of the Federal Coordinator for Meteorology
ORISE	Oak Ridge Institute for Science and Education
ORR	Oak Ridge Reservation
OSSE	Observing System Simulation Experiments

P

PNNL	Pacific Northwest National Laboratory
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Q

R

R&D	Research & Development
RUC	Rapid Update Cycle

S

SC	DOE Office of Science
SCAPA	Subcommittee on Consequence Assessment and Protective Actions
SCRAM	Support Center for Regulatory Atmospheric Modeling (EPA transport and dispersion model page)
SE&I	Shaw Environmental & Infrastructure
SME	Subject Matter Expert
SNL	Sandia National Laboratory
SORD	Special Operations and Research Division
SRNL	Savannah River National Laboratory
SROO	Savannah River Operations Office
SRS	Savannah River Site
SQA	Software Quality Assurance

T

TN	Tennessee
TSPO	Technical Standards Program Office
TVA	Tennessee Valley Authority
TX	Texas

U

UHS	Ultimate Heat Sink
URL	Universal Resource Locator
UT	Utah

V

VA	Virginia
VCS	Voluntary Consensus Standard

W

WG	Working Group
WIPP	Waste Isolation Pilot Plant
WSRC	Westinghouse Savannah River Company

X

Y

YMPO	Yucca Mountain Project Office
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Z