

**DOE METEOROLOGICAL
COORDINATING COUNCIL (DMCC)**

1999 MEETING

**La Fonda Hotel
Santa Fe, NM
September 13, 1999**

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0.0 EXECUTIVE SUMMARY

The Department of Energy (DOE) Meteorological Coordinating Council (DMCC) convened a Meeting at the La Fonda Hotel in Santa Fe, NM, September 13, 1999 in conjunction with the American Nuclear Society (ANS) Topical Meeting on Emergency Preparedness & Response (EP & R). This was the 8th meeting of the Council since its inception in December 1994. 11 individuals, from the public and private sectors, attended the meeting.

The primary purpose of the meeting was to provide a forum for DMCC members and associates to review its accomplishments, products, and projects, and to discuss its mission and implementation. Several technical reports of interest to the membership were also presented.

There was a discussion on the FY99 work of the newly commissioned DOE Meteorological Topical Committee (MTC) that is associated with DOE/EH-31, the DOE office that administers the Technical Standards Program (TSP). The MTC is closely associated with the DMCC, and is chaired by Mr. Carl Mazzola. A briefing on the progress of ANSI/ANS-3.11, a technical standard on meteorological monitoring at nuclear facilities, was provided. When this standard is issued in early 2000, it will be introduced to the DOE through the MTC.

The early planning for the 9th DMCC Meeting was briefly discussed. This meeting will be held in Las Vegas, NV in conjunction with the Subcommittee on Consequence Assessment and Protective Actions (SCAPA) and Nuclear Utility Meteorological Data Users Group (NUMUG) meetings, from October 16-20, 2000.

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1.0 OVERVIEW

A DOE Meteorological Coordinating Council (DMCC) convened at the Coronado Room in Santa Fe, NM, at 1:00 p.m. on September 13, 1999. This was the 8th meeting that the DMCC has sponsored since its inception in December 1994. The meeting was called by the DMCC Chairman, Dr. Darryl Randerson, who is also the Director, National Oceanic and Atmospheric Administration (NOAA) Air Resources Laboratory (ARL)/Special Operations & Research Division (SORD). The reasons for holding this meeting were to present new DMCC initiatives to its membership and associates, and to share the many FY99 DMCC accomplishments. In addition, several technical presentations of interest to DMCC members and associates were included. The agenda of this meeting is documented in Appendix A.

The following lists the 11 individuals that attended the meeting and their respective affiliations:

<u>Individual</u>	<u>Affiliation</u>
Ron Baskett	Lawrence Livermore National Laboratory (LLNL)
Tim Brown	Westinghouse Waste Isolation Division (WID) - WIPP
Kirk Clawson	NOAA ARL/Field Research Division (FRD)-Idaho Falls
Jim Fairbent	Department of Energy (DOE)/NN-60
Tom Kevern	Advanced Technologies Laboratories (ATL)
International	
Carl Mazzola	Stone & Webster Engineering Corporation (SWEC)
Rocky Petrocchi	Westinghouse Safety Management Solutions (WSMS)
Doyle Pittman	Tennessee Valley Authority (TVA)
Darryl Randerson	NOAA ARL/SORD-Las Vegas
Walter Schalk	NOAA ARL/SORD-Las Vegas
Allen Weber	Westinghouse Savannah River Company (WSRC) - SRS

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2.0 OPENING EVENTS AND DISCUSSIONS

Dr. Darryl Randerson, Chairman of the DMCC, welcomed the DMCC members and associates to Santa Fe, NM, and convened the 8th DMCC Meeting. Darryl briefly described the mission and the objectives of the DMCC, and a brief history of what the Council had accomplished in the past 5 years.

Each of the attendees introduced themselves and identified their affiliation and their function within the DMCC.

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3.0 REPORTS ON DMCC PROGRAM INITIATIVES

3.1 FY99 DMCC Activities and Accomplishments (Darryl Randerson)

Dr. Darryl Randerson presented the FY99 accomplishments of the Council. The FY99 DMCC accomplishments are captured in Appendix B.

Dr. Randerson reported that the DMCC Assist Visit Program has remained active, with a follow-up assist visit conducted at the Waste Isolation Pilot Plant (WIPP) in August 1999. The final report of this Assist Visit was issued in September 1999. The results of this follow up Assist Visit were well received by WIPP management and noticeable improvements in its meteorological program were noted.

DMCC plans to continue its Assist Visit program in FY00 and has had discussions with Rocky Flats Environmental Technology Site (RFETS), Idaho National Environmental Engineering Laboratory (INEEL), Brookhaven National Laboratory (BNL), Hanford, Yucca Mountain Project Office (YMPO), Sandia National Laboratory (SNL), and Los Alamos National Laboratory (LANL). The latter two locations may be accomplished within the same week due to their proximity to one another.

DMCC held a technical meeting in Las Vegas, NV, in October 1998, in which 59 individuals attended. A report on this meeting was issued in early 1999, and will soon be hyperlinked to the DMCC web page.

The activities of the DOE Meteorology Topical Committee (MTC) under DOE/EH-31, the Technical Standards Program Office (TSPO) represented a significant accomplishment for the DMCC in FY99. The DOE Meteorology Topical Committee (MTC) was authorized on August 26, 1998, and is chaired by Mr. Carl Mazzola. The MTC has been addressing which technical standards should be included in the DOE TSP and their applicability to DOE sites. The upcoming standard, ANSI/ANS-3.11, "Determining Meteorological Monitoring Requirements at Nuclear Facilities", will be recognized at all DOE sites with meteorological programs as part of the work of this committee. The committee will also address appropriate handbooks, guides, and other technical documents that should be considered by the DOE community to assist in the implementation of meteorological programs.

Carl Mazzola attended the annual Technical Standards Manager Committee (TSMC) meeting in Nashville, TN, in May 1999. He was able to broaden the MTC's relationship with the TSPO and received valuable information to assist the DOE sites

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in the institutionalization of their meteorological programs. A copy of the information that Carl Mazzola brought back with him is available, upon request.

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Since June 1996, the DMCC and the Nuclear Utility Meteorological Data User Group (NUMUG) have collaborated to develop a revision to the 1984 ANSI/ANS-2.5 technical standard on meteorological monitoring at nuclear facilities. This new standard, ANSI/ANS-3.11, is in the final consensus review cycle and should be issued in early 2000. The DMCC and the MTC will take the lead in bringing this standard into the DOE community through the TSPO, using guidance from DOE Order 252.1 and DOE Guide 252.1-1. Eighteen additional American Society for Testing & Materials (ASTM) meteorological standards are also under consideration. Darryl Randerson would speak later on the intended institutionalization process.

In support of the DOE Office of Science (OS), the DMCC developed the DOE appendix of "The Federal Plan for Meteorological Services and Supporting Research Fiscal Year 2000" in March 1999. This plan is developed annually by the OFCM, who has been a strong supporter of the DMCC since its inception. The DMCC has also been tasked to develop the DOE input for the Fiscal Year 2001 Federal Plan, and work will begin on this project by the end of 1999 or in early 2000.

DMCC also participated in NUMUG's May 1999 meeting in Syracuse, NY. Presentations were made on the DMCC mission and the status of ANSI/ANS-3.11.

DMCC has recently developed its own web site ([www: sordx.nv.doe.gov](http://www.sordx.nv.doe.gov)), and its key pages are captured in Appendix C. The following elements are presently on the DMCC web site:

- DMCC mission statement;
- DMCC objectives;
- DMCC Methods;
- DOE meteorological program attributes;
- DMCC participants;
- DMCC e-mail list;
- Listing of the DMCC activities;
- DMCC published reports;
- Documents of interest;
- Involvement in meteorological standards;
- DOE headquarters organization and field office meteorological web sites;
- Weather maps, images, charts, forecasts, warnings, and advisories;
- User help, comments, and Frequently Asked Questions (FAQ's); and,
- DMCC vision of future activities.

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In addition to the above elements on the DMCC web page, there are plans for hyperlinking the DMCC page of the Subcommittee on Consequence Assessment and Protective Actions (SCAPA) web site to this Universal Resource Locator (URL) page and to hyperlink DMCC meeting reports.

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3.2 ANS-3.11 and the Meteorology Topical Committee (Carl Mazzola)

Carl Mazzola presented the status of ANSI/ANS-3.11 and an overview of the MTC. The ANSI/ANS-3.11 project, undertaken jointly by NUMUG and DMCC, began in June 1996 and is soon coming to a positive conclusion with the issuance of the consensus standard sometime in early 2000.

Carl presented the many background reasons why the predecessor standard ANSI/ANS-2.5 (1984) needed to be updated. He then elaborated on the process that was undertaken, and the integration of the DOE TSP, since this standard was being developed for both private and public sector entities. He identified the three-tiered structure of the working group and each of the 30 Subject Matter Experts (SME's) that took part in the Project, and their respective roles.

Lastly, Carl discussed the work scope development and the complexities of its execution, and the final product. A schedule of the upcoming milestones was also shared with the group.

Carl's detailed presentation is captured in Appendix D.

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3.3 Institutionalization of Meteorology in DOE (Darryl Randerson)

Darryl Randerson presented a flowchart that showed how the DMCC is involved in a process to use ANSI/ANS-3.11 as a foundation to institutionalize meteorological programs within DOE.

Once ANSI/ANS-3.11 is issued, the DMCC will contact DOE EH-31 to confirm that it is aware of the new voluntary consensus standard (VCS) that affects meteorological programs in DOE. DOE EH-31, under the guidance contained within DOE Order 252.1, will then adopt ANSI/ANS-3.11 as a VCS. The MTC is preparing a recommendation, that will be sent to all DOE meteorological program managers, that will outline the various steps that can be taken to have the standard acknowledged as part of their program. These include adoption of ANSI/ANS-3.11 into existing Work Smart Standards (WSS), List B of the M & O Contract with DOE, Safety/Regulatory Identification Documents (S/RIDs), etc.

This VCS on meteorological programs will provide, for the first time, a means to define the performance criteria for DOE meteorological programs, for a to-be-determined DOE EH program office to have a basis for their appraisals of such programs. It is expected that DOE EH will designate the DMCC to conduct these appraisals within the purview of the existing DMCC Assist Visit program. The DMCC Assist Visits will continue to provide a mechanism for improvements to DOE site meteorological programs, while fulfilling DOE oversight requirements.

The flow chart is presented in Appendix E.

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4.0 DOE METEOROLOGICAL PROGRAMS AND INITIATIVES

4.1 Changes in Emergency Management in NN-60 (Jim Fairbent)

Jim Fairbent presented rather significant changes that are occurring in the Office of Emergency Management (OEM) in DOE, in part, as a result by Congress to increase the level of security within the DOE complex through the National Defense Authorization Act (NDAA). Within Title XXXI of the NDAA is the creation of a new organization, National Nuclear Security Administration (NNSA), which will report to a new Undersecretary in its oversight of all DOE security functions.

The new organization includes the previous Defense Programs [DP-23] and Nonproliferation and National Security [NN-60] emergency management organizations and security under the same umbrella is termed SO. SO has 4 elements as follows:

- SO-10 Human Resources;
- SO-20 OSA;
- SO-30 CIO; and,
- SO-40 OEO.

Within SO-40 are the 2 emergency management organizations, SO-41 and SO-42. The SO structure is still quite fluid with a targeted implementation date of March 2000.

Jim presented the most recent organizational structure that will likely be modified before reaching its final configuration. This mission of this organization will involve DP, NN, Nuclear Energy (NE), naval reactors, and will crosscut the functions of safeguards & security, emergency management, integrated safety management, environmental safety & health, intelligence and counterintelligence, and legal, legislative, and public affairs.

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4.2 Tennessee Valley Authority's REMIC Program (Doyle Pittman)

Doyle Pittman presented a discussion on a new configuration management system that the Tennessee Valley Authority (TVA) is applying to the meteorological programs that are supporting its nuclear power plant operations. Although the meteorological programs at the TVA nuclear sites of Browns Ferry, Sequoyah, and Watts Bar, are not classified as safety-related under the 10 CFR 50 Appendix B enabling regulations, they have been classified as quality-related. This reclassification has brought the meteorological programs into closer coordination with the other operational elements at these facilities under the purview of a newly formed standing committee. The standing committee's name is Radiological Environmental Meteorological Instrumentation Committee (REMIC).

The responsibilities of REMIC include implementing the requirements of the facilities Quality Assurance (QA) Program, resolving radiological, environmental, and meteorological issues, and ensuring that adequate communication is established between all organizations that have responsibility for the meteorological instrumentation. Not only is instrument calibration being considered but all aspects of data collection are within REMIC's purview.

Doyle discussed the functions of the REMIC members that includes corporate oversight, maintenance of meteorological instrumentation, calibration of meteorological equipment, meteorological data validation, and radiological environmental data management. Since its inception a few years ago, the committee has created a dialogue that has strengthened the meteorological programs. The major issues that have been addressed by REMIC include configuration management (e.g., baseline specifications, physical walkdowns, requirements reviews), design changes, procurement, organizational changes, and procedure review and approval. The design changes now include a 10 CFR 50.59 safety review, while in the past, any changes in meteorological program design were invisible to the nuclear safety organization.

The REMIC program has been very successful and has produced improved communication between all of the stakeholders, an improved meteorological program oversight process, has resulted in a more efficient operation, and serves as a forum for program status and modification.

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Recently, REMIC conducted a vertical slice audit of the meteorological program for the wind speed and wind direction components. Three audit findings resulted and corrective actions are being addressed. One of the corrective actions is for the TVA meteorological organization to develop a self-assessment program, similar to the DMCC Assist Visit program, to periodically evaluate the program elements.

Doyle Pittman's presentation is documented in Appendix F.

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4.3 Chemical Emergency Planning Using DOE TEEL's (Rocky Petrocchi)

Rocky Petrocchi presented a discussion on the work that is being done on establishing community health criteria for the numerous chemicals that are used within the DOE complex. His talk is entitled, "Chemical Emergency Planning Using DOE Temporary Emergency Exposure Levels (TEELs)". The presentation was co-authored by Dr. Doan Hansen of Brookhaven National Laboratory (BNL).

Rocky began his discussion with a brief overview of the role of the Subcommittee on Consequence Assessment and Protective Actions (SCAPA), who is sponsoring the work on the TEELs. SCAPA is under the authority of the DOE Office of Emergency Management (OEM). The mission of SCAPA is to promote consistency of emergency management principles within the consequence assessment and protective action planning elements, to provide technical support to DOE on radiological and chemical health matters, and to coordinate information with other agencies and countries. The core activities with respect to DOE chemical emergency planning are to determine airborne concentrations through atmospheric transport and dispersion modeling, provide a yardstick to determine community exposure effects, and to determine appropriate protection actions of potentially affected community members.

Rocky discussed the Emergency Response Planning Guidelines (ERPGs) and their Environmental Protection Agency (EPA) counterpart Acute Exposure Guideline Limits (AEGs). Presently there are ERPGs for about 90 chemicals. Although much work has been done on AEGs over the past few years, not one has yet been ratified by EPA. Since there are tens of thousands of different chemical that are present as potential hazards at DOE facilities, there was a need to develop surrogates for the ERPGs and AEGs until they are all developed. These surrogates are the TEELs, which have been developed through SCAPA. Rocky briefly presented the two SCAPA hierarchies, developed from the plethora of diverse human health indicators that are available, that are presently being used to develop TEELs. These TEELs, which number about 1500, can be accessed on the following URL:

- http://tis-hq.eh.doe.gov/web/chem_safety/teel.html

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TEELs can be used in accident scenarios, transport and dispersion modeling applications, to determine mitigate actions at the source, and for the determination of protective actions downwind of the source. The pros and cons of TEEL usage were reviewed. It was cautioned that TEELs are only approximations of ERPGs and have not gone through the expert peer review process that the ERPGs have gone through.

Rocky Petrocchi's presentation is documented in Appendix G.

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5.0 DOE METEOROLOGY TOPICAL COMMITTEE

Carl Mazzola discussed the mission of the MTC and broadened the DMCC membership understanding of four of its implementation elements.

Carl first identified the specific individuals that are involved in the MTC. He reviewed the sections of the MTC charter, and for each element chosen he spoke on the FY99 activities within that element, and the proposed FY00 activities. These elements included:

- Objectives:
 - 1) Function as the Preparing Activity/Reviewing Activity for developing and implementing meteorological standards for the DOE TSPO. In this capacity the committee will provide assistance to the Office(s) of Primary Interest with coordination of newly-published standards; Serve as an advisory group for the development and review of standards, directives, guides, and handbooks associated with the atmospheric sciences, for national or international use;
 - 2) Partner and interface with non-DOE Standards Development Organizations (SDO's) [i.e., American National Standards Institute (ANSI), ANS, and American Society for Testing & Materials (ASTM)]; and,
 - 3) Develop, when the need arises, a government-wide technical position on meteorology standards for adoption by non-DOE technical standards entities. Establish and maintain liaison with other DOE topical committees having mutual interests through the TSPO. [The Committee shall advise all other DOE technical committees on the preparation of standards related in subject matter and the correlation and consolidations of similar standards prepared by these committees, and promote cooperation between these technical committees in areas of common interest.].
- Topical Committee Meetings.

Carl Mazzola's presentation is documented in Appendix H.

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6.0 OCTOBER 2000 MEETING

Carl Mazzola presented the early planning for the next DMCC meeting. Conducting the 6th DMCC meeting concurrent with the NUMUG meeting in South Bend, IN, in October 1997 was a successful venture according to both NUMUG and DMCC leadership. At the Syracuse, NY May 1999 NUMUG meeting, its leadership and representatives talked extensively about the possibility of running concurrent meetings with DMCC once again in October 2000 when the NUMUG 18-month meeting cycle occurs again. NUMUG representatives overwhelmingly supported both the meeting concept and the choice of venue (i.e., Las Vegas, NV).

Since the SCAPA Meeting is usually conducted in early May and late October, SCAPA representatives were consulted about the possibility of joining DMCC and NUMUG, and concurred with the concept. The week of October 16-20th, 2000 was selected as a target for a 5-day meeting that involves all three organizations. More detailed planning will take place after this meeting.

Carl's brief presentation on this topic is documented in Appendix I.

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7.0 ACRONYMS

A

AEGL	Acute Exposure Guideline Limits
AIR	Atmospheric Information Resources
AMS	American Meteorological Society
ANL	Argonne National Laboratory
ANS	American Nuclear Society
ANSI	American National Standards Institute
ARL	Air Resources Laboratory
ASOS	Automated Station Operating System
ASTM	American Society for Testing & Materials
ATL	Advanced Technologies Laboratories

B

BNL	Brookhaven National Laboratory
BSR	Board of Standards Review

C

CC	Consensus Committee
CCC	Climatological Consulting Corporation
CFR	Code of Federal Regulations
CIO	

D

DESI	Duke Engineering Services Incorporated
DMCC	DOE Meteorological Coordinating Council
DOE	Department of Energy
DP	Defense Programs

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7.0 ACRONYMS

E

EH	Environmental Health
EMD	Environmental Monitoring Department
EP & R	Emergency Preparedness & Response
EPA	Environmental Protection Agency
ERL	Environmental Research Laboratory
ERPG	Emergency Response Planning Guidelines
ETTP	East Tennessee Technology Park

E

FAQ	Frequently Asked Questions
FL	Florida
FRD	Field Research Division
FY	Fiscal Year

G

G	Guide
GA	Georgia

H

HQ	Headquarters
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I

IDNS	Illinois Department of Nuclear Safety
IN	Indiana
INEEL	Idaho National Environmental Engineering Laboratory

J

K

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7.0 ACRONYMS

L

LANL Los Alamos National Laboratory
LLNL Lawrence Livermore National Laboratory

M

M&O Management & Operating
MA Massachusetts
MSI Meteorological Standards Institute
MTC Meteorology Topical Committee

N

N North
NDAA National Defense Authorization Act
NE Nuclear Energy
NEXRAD NEXt generation RADar
NFSC Nuclear Facilities Standard Committee
NM New Mexico
NN Nonproliferation and National Security
NNSA National Nuclear Security Administration
NOAA National Oceanic and Atmospheric Administration
NRC Nuclear Regulatory Commission
NSB Nuclear Standards Board
NTTAA National Technology Transfer and Assistance Act
NUMUG Nuclear Utility Meteorological Data User Group
NV Nevada
NY New York

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7.0 ACRONYMS

Q

O	Order
OEM	Office of Emergency Management
OEO	
OFCM	Office of the Federal Coordinator for Meteorology
OMB	Office of Management and Budget
OS	Office of Science
OSA	

P

PG&E	Pacific Gas & Electric
PINS	Project Initiation Notification System
PLG	Pickard Lowe & Garrick
PP&L	Pennsylvania Power & Light
PSE&G	Public Service Electric & Gas

Q

QA	Quality Assurance
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R

RFETS	Rocky Flats Environmental Technology Site
REMIC	Radiological Environmental Meteorological Instrumentation Committee

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7.0 ACRONYMS

S

SAIC	Science Applications International Corporation
SBFB	Stan's Big Fat Book
SC	Standards Subcommittee
SCAPA	Subcommittee for Consequence Assessment and Protective Actions
SCE	Southern California Edison
SDO	Standards Development Organization
SNL	Sandia National Laboratory
SO	
SORD	Special Operations & Research Division
SRS	Savannah River Site
SME	Subject Matter Expert
S/RID	Safety/Regulatory Identification Document
SSC	Standards Steering Committee
SWEC	Stone & Webster Engineering Corporation

I

TEEL	Temporary Emergency Exposure Levels
TN	Tennessee
TSMC	Technical Standards Management Committee
TSP	Technical Standards Program
TSPO	Technical Standards Program Office
TVA	Tennessee Valley Authority

U

URL	Universal Resource Locator
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V

VCS	Voluntary Consensus Standard
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7.0 ACRONYMS

W

WG	Working Group
WID	Waste Isolation Division
WIPP	Waste Isolation Pilot Plant
WSMS	Westinghouse Safety Management Solutions
WSRC	Westinghouse Savannah River Company
WSS	Work Smart Standard
WWW	World Wide Web

X

Y

YMPO	Yucca Mountain Project Office
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Z

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8.0 APPENDICES

Since a proceedings of the meeting presentations was not developed prior to the meeting, this section is reserved to document the presentations and other relevant documentation that were made at this meeting. The following presents a listing of these presentations.

<u>Appendix</u>	<u>Description</u>
A	Agenda
B	FY99 DMCC Accomplishments
C	DMCC Web Page
D	ANS-3.11
E	Institutionalization of Meteorology
F	Tennessee Valley Authority's REMIC Program
G	Chemical Emergency Planning Using DOE TEELs
H	Meteorology Topical Committee
I	SCAPA-DMCC-NUMUG Meeting: October 2000

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Appendix A

Agenda

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Appendix B

FY99 DMCC Accomplishments

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FY 1999 DMCC ACCOMPLISHMENTS

· **ASSIST VISITS AND REPORTS**

DMCC 1998 Technical Conference Report - Mar. 99
Waste Isolation Pilot Project: Follow-up - Sept 99

· **DOE METEOROLOGICAL TOPICAL COMMITTEE**

TSMC Meeting, Nashville, TN
Review of Voluntary Consensus Standards, ASTM
Institutionalization of Meteorological Standards within DOE

· **DOE INPUT TO OFCM FEDERAL PLAN FOR METEOROLOGICAL SERVICES AND SUPPORTING RESEARCH**

March 1999

· **PARTICIPATION IN ANS/ANSI 3.11**

Joint Project with NUMUG

· **PARTICIPATION IN NUMUG MEETING**

Syracuse, NY, May 1999
Proposed NUMUG/SCAPA/DMCC Joint Meeting

· **DMCC WEB SITE**

www.sordx.nv.doe.gov
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Appendix C

DMCC Web Page

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(Include 16-page file)

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Appendix D

ANS-3.11

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ANSI/ANS-3.11

**American National Standard for
Determining Meteorological
Information at Nuclear Facilities**

**DOE/EH-31 Meteorology Topical
Committee**

Carl A. Mazzola, Stone & Webster

**7th DMCC Meeting
Santa Fe, NM
September 13, 1999**

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OVERVIEW

- 1• THE MISSION: ANSI/ANS-2.5 UPDATE
BACKGROUND**

- 2• THE PROCESS: ANSI/ANS STANDARDS
PROCESS**

- 3• ADDITIONAL COMPLEXITY: DOE TECHNICAL
STANDARDS PROGRAM**

- 4• THE TEAM: WORKING GROUP PARTICIPANTS
AND STRUCTURE**

- 5• THE PLAN: ANSI/ANS-3.11 WG WORK SCOPE**

- 6• THE EXECUTION: WORKING GROUP ACTIVITIES**

- 7 • THE PRODUCT: ANSI/ANS-3.11**

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THE MISSION: ANSI/ANS-2.5 UPDATE

BACKGROUND

HISTORY

- **9/84: ANSI/ANS-2.5 ISSUED TO MEET
COMMERCIAL NUCLEAR INDUSTRY
METEOROLOGICAL SITING NEEDS**
- **8/90: ANSI/ANS-2.5 REAFFIRMED**
- **6/91: DOE ISSUES DOE/T-0173 (NOT A
STANDARD)**
- **7/93: NUMUG ISSUED RECOMMENDED
REVISIONS TO ANSI/ANS-2.5**
- **9/94: ANSI/ANS-2.5 SHELF LIFE EXPIRED AND
SUNSET EXTENDED**

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THE MISSION: ANSI/ANS-2.5 UPDATE BACKGROUND

CONCLUSION

NEW STANDARD FOR OPERATIONAL METEOROLOGICAL

MONITORING PROGRAMS IS BADLY NEEDED FOR BOTH

PUBLIC AND PRIVATE SECTOR NUCLEAR PROGRAMS

THE MISSION: ANSI/ANS-2.5 UPDATE BACKGROUND

WHY REPLACE ANSI/ANS-2.5?

- 1 No longer active and technically outdated**
- 2 Emphasis change from siting to operations**
- 3 Does not consider remote sensing technology**
- 4 Does not address life cycle considerations**
- 5 Does not consider complex terrain siting issues**

THE MISSION: ANSI/ANS-2.5 UPDATE BACKGROUND

WHY REPLACE ANSI/ANS-2.5? (Continued)

- 6 Does not contain current meteorological instrumentation standards**

- 7 Does not reflect state-of-the-art data acquisition, processing, and archiving technology**

- 8 Inconsistent with NEXRAD, ASOS, EPA, and ASTM guidance**

- 9 Only addresses civilian nuclear facilities**

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THE MISSION: ANSI/ANS-2.5 UPDATE BACKGROUND

FUTURE ANSI/ANS-3.11 USERS

Technical professionals employed at:

- **Approximately 70 utility nuclear power generation facilities**
- **Approximately 20 DOE reservations/field offices**
- **Approximately 4 DoD ranges**
- **1000's of industrial operations**

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THE PROCESS: ANSI/ANS STANDARDS PROCESS

INVOLVES A COMPREHENSIVE REVIEW AND OVERSIGHT PROCESS TO **ENSURE INTEGRITY AND TECHNICAL ACCURACY**

- **ANSI (STANDARDS ORGANIZATION) ELEMENTS**
 - * Board of Standards Review (BSR)
 - * Nuclear Standards Board (NSB)

- **ANS (STANDARDS DEVELOPMENT ORGANIZATION) ELEMENTS**
 - * Standards Steering Committee (SSC)
 - * Consensus Committee (CC) [NFSC]
 - * Standards Subcommittee (SC) [ANS-3]
 - * Working Group (WG) [ANS-3.11]

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DOE TECHNICAL STANDARDS PROGRAM (TSP)

- **TSP MANAGER, RICK SERBU (DOE/EH-31)**
- **TSP VISION**
 - * **DOE COMMUNITY CULTURE WILL BE BASED ON STANDARDS BY YEAR 2000**
 - * **TECHNICAL STANDARDS WILL BE FORMALLY INTEGRATED INTO ALL DOE FACILITY, PROGRAM & PROJECT ACTIVITIES**
- **TSP MISSION (DOE O 252.1 AND G 252.1-1)**
 - * **DOE WILL PROVIDE INFORMATION & COORDINATING ACTIVITIES**
 - * **DOE WILL PROMOTE USE OF NATIONAL CONSENSUS STANDARDS**
- **OMB A-119: ENCOURAGES FEDERAL PARTICIPATION IN THE DEVELOPMENT AND USE OF VOLUNTARY STANDARDS IN RESPONSE TO 1995 NTTAA**

CONCLUSION: ANSI/ANS-3.11 WITHIN SCOPE OF DOE TSP STRATEGIC PLAN, OMB A-119, AND NTTAA

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DOE METEOROLOGY TOPICAL COMMITTEE **CHARTER**

1.0 PURPOSE

The purpose of the DOE Meteorology Topical Committee of the Technical Standards Program (TSP) is to **facilitate the interaction between DOE and DOE contractor personnel with common interests regarding the identification and resolution of meteorological standards-related issues** for the DOE TSP Office (TSPO). DOE will use the technical expertise of the DOE Meteorological Coordinating Council (DMCC) to achieve this purpose.

2.0 BACKGROUND

The DMCC, established in 1994 to coordinate the activities of DOE meteorological programs, consists of DOE and DOE contractors associated with meteorological programs at more than 15 DOE facilities. The DMCC fosters an increased level of discussion and coordination on environmental, safety, and health matters, which require meteorological information and guidance. **The DMCC, through the DOE Meteorology Topical Committee, will provide a mechanism to gain an operational perspective in the development of meteorological standards and in the resolution of program issues, and will aid in ensuring consistent meteorological program criteria throughout the DOE complex.**

3.0 VALUE STATEMENT

The DOE Meteorology Topical Committee will **promote a coordinated meteorological standards program for DOE.**

4.0 OBJECTIVES

- 1) Function as the Preparing Activity/Reviewing Activity for developing and implementing meteorological standards for the DOE TSPO. In this capacity the committee will provide assistance to the Office(s) of Primary Interest with **coordination of newly-published standards.**
- 2) Interface with non-DOE standards development bodies [e.g., American Nuclear Society (ANS), Nuclear Regulatory Commission (NRC), Environmental Protection Agency (EPA)] on activities that may impact on DOE environment, safety, and health directives requiring meteorological support. Be prepared to define the DOE-wide position on DOE, non-DOE government, and non-government consensus meteorology standards published or in comment coordination.
- 3) Serve as an **advisory group for the development and review of standards, directives, guides, and handbooks associated with the atmospheric sciences**, for national or international use.

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DOE METEOROLOGY TOPICAL COMMITTEE **CHARTER**

- 4) Partner and interface with non-DOE Standards Development Organizations (SDO's) [i.e., American National Standards Institute (ANSI), ANS, and American Society for Testing and Materials (ASTM)]. **Develop, when the need arises, a government-wide technical position on meteorology standards for adoption by non-DOE technical standards entities.**
- 5) Establish and maintain **liaison with other DOE topical committees having mutual interests through the TSPO.** [The Committee shall advise all other DOE technical committees on the preparation of standards related in subject matter and the correlation and consolidations of similar standards prepared by these committees, and promote cooperation between these technical committees in areas of common interest.]
- 6) Form direct ties with counterpart standards development organization topical committees to participate in the development and review of national and international technical standards.
- 7) Participate with representatives of other topical committees and the TSP manager to establish guidance and protocols for topical committee operations under the TSP.

5.0 MEMBERSHIP

Membership in the DOE Meteorology Topical Committee will be comprised of selected DOE/HQ, DMCC, and DOE field meteorological personnel. Membership in the DMCC is open to all DOE and DOE contractors with responsibility for managing and overseeing implementation of meteorological programs at DOE facilities.

6.0 DMCC INTERFACE

The DOE Meteorology Topical Committee will be governed by the DMCC. The DMCC will prepare recommendations for the DOE sponsor, who retains the final authority for policy decisions affecting DOE standards.

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**DOE METEOROLOGY TOPICAL COMMITTEE
CHARTER**

7.0 SPONSORSHIP

The Meteorology Topical Committee is a standing topical standards committee sponsored by the DOE Technical Standards Program. The following principles will govern its operation:

- 1) Openness: Participation in committee standards development process will be open to all persons who are directly and materially affected by the activity in question.
- 2) Balance of Interests: Any standards development activities undertaken by the committee will be comprised of representatives of all categories of interest that relate to the subject matter.
- 3) Due Process: The committee will ensure that any individual or organization within DOE who believes that an action or inaction of the committee causes unreasonable hardship or potential harm is provided the opportunity to have a fair hearing of his/her concerns.
- 4) **Reporting: The DMCC will report on meteorological standards-related activities to the DOE TSPO on a frequency that is appropriate to the activity and consistent with the needs of the TSPO.**

8.0 TOPICAL COMMITTEE MEETINGS

Committee meetings will normally be held in conjunction with regularly scheduled workshops and conferences at which meteorological program managers attend (e.g., DMCC Annual Meeting). The DMCC Steering Committee will also meet via teleconference quarterly, or when issues require resolution. When the physical presence of the Steering Committee is required, special meetings will be scheduled, as appropriate.

This Charter was adopted by the DOE Meteorology Topical Committee on

____ August 26, 1998 _____
Date

Approved by the DOE Technical Standards Program Office (TSPO)

Richard, J. Serbu, TSP Manager

DMCC TECHNICAL MEETING
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THE TEAM: WORKING GROUP PARTICIPANTS AND
STRUCTURE

THREE-TIERED WORKING GROUP STRUCTURE

*** WG ELEMENT I: CHAIRMEN (2)**

- **NUMUG**
- **DMCC**

*** WG ELEMENT II: TECHNICAL RESEARCHERS AND WRITERS (7)**

- **Private Sector (Utilities, Consultants)**
- **Public Sector (Federal Agencies)**

*** WG ELEMENT III: REVIEWERS (20)**

- **Private Sector (Utilities, Consultants)**
- **Public Sector (Federal Agencies)**
- **Regulators (EPA, NRC)**

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**RESPONSIBILITIES OF EACH
WORKING GROUP ELEMENT**

*** WG ELEMENT I**

- **Scoping**
- **Oversight**
- **Facilitation**

*** WG ELEMENT II**

- **Development of Technical Materials and Information**

*** WG ELEMENT III**

- **Peer Review of all Draft Standards**

DMCC TECHNICAL MEETING
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WG PARTICIPANTS AND STRUCTURE

- **WG ELEMENT I: OVERSIGHT AND FACILITATION**

*	NUMUG Rep:	Stan Marsh	SCE
*	DMCC Rep:	Carl Mazzola	SWEC

- **WG ELEMENT II: DEVELOPMENT OF TECHNICAL MATERIALS**

*	Mark Abrams	Vendor	PLG
*	Bob Banta	Fed Research	ERLETL
*	Tom Bellinger	Fed Pgm	IDNS
*	Paul Fransioli	Consultant	SAIC
*	Brad Harvey	Util Pgm Mgr	DESI
*	Matt Parker	Fed Pgm	WSRC
*	Ken Wastrack	Util/Fed Pgm	TVA

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WG PARTICIPANTS AND STRUCTURE

• **WG ELEMENT III: PEER REVIEWERS**

*	Rob Addis	Fed Pgm Mgr	WSRC
*	Ron Baskett	Fed Pgm Mgr	LLNL
*	Leta Brown	Regulator	NRC
*	Bruce Carson	Util Pgm	PP&L
*	Tom Coulter	Regulator	EPA
*	Jerry Crescenti	Fed Pgm Mgr	INEEL
*	Jim Fairobent	Fed Pgm	DOE
*	Jim Holian	Consultant	SAIC
*	John Irwin	Regulator	EPA
*	Bob Kornasiewicz	Regulator	NRC
*	Stanley Krivo	Regulator	EPA IV
*	Tom Lockhart	Consultant	MSI
*	Doyle Pittman	Util/Fed Pgm	NTS
*	Gene Shelar	Util Pgm	PG&E
*	Irv Spickler	Fed Pgm	DOE
*	Bob Swanson	Consultant	CCC
*	Ping Wan	Consultant	Bechtel
*	Marvin Wesely	Fed Pgm	ANL
*	Bob Yewdall	Util Pgm Mgr	PSE&G

THE PLAN: ANSI/ANS-3.11 WG WORK SCOPE

PURPOSES

- 1 Develop new standard to address life-cycle meteorological monitoring requirements:
 - Encompass all operational and planning needs
 - Usage by both nuclear utility industry and DOE facilities

- 2 Develop new standard for following user community:
 - Meteorological staff at nuclear electric utilities and government installations
 - * meteorologists
 - * instrument technicians
 - * health physicists
 - * dose assessment personnel
 - Meteorological instrument manufacturers
 - Professional meteorologists, in general

THE PLAN: ANSI/ANS-3.11 WG WORKSCOPE

PURPOSES

- 3 Develop new standard applicable to all meteorological monitoring applications and interfaces associated with**
 - **Operations**
 - **Emergency Response**
 - **Protection of worker and public safety & health**
 - **Siting**

- 4 Develop new standard which is versatile to address needs of:**
 - **Nuclear power industry facilities**
 - **Appropriate federal nuclear facilities**
 - **Several federal agencies**

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THE PLAN: ANSI/ANS-3.11 WG WORKSCOPE

APPROACH

- 1 Draw from and build upon existing applicable meteorological available guidance, incorporating, by reference, appropriate components and developing new components, as necessary

- 2 Maintain close liaison with other interested groups (e.g., OFCM) to facilitate endorsement of final product by other federal agencies

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THE PLAN: ANSI/ANS-3.11 WG WORKSCOPE

Task 1: Develop design criteria for the new standard (9/96 - 10/96)

Task 2: Technical evaluation of current ANSI/ANS-2.5 (10/96-11/96)

Task 3: Technical evaluation of other meteorological monitoring guidance (9/96-3/97)

Task 4: Obtain/develop technical information (4/97-7/97)

Task 5: Draft new standard (7/97-Present)

Task 6: ANSI and ANS approvals (9/98-Present)

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THE EXECUTION: WORKING GROUP ACTIVITIES

1996

- **JUNE: NUMUG-DMCC WG RENO, NV AD HOC MEETING**
- **SEPTEMBER: FIRST NUMUG-DMCC WG MEETING AT ANS/HQ IN CHICAGO, IL**
- **OCTOBER: DMCC DEVELOPS RECOMMENDED REVISIONS TO ANSI/ANS-2.5**
- **NOVEMBER: ANS-3.11 PINS SUBMITTED/SSC MEETING**

**DMCC TECHNICAL MEETING
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THE EXECUTION: WORKING GROUP ACTIVITIES

1997

- **JANUARY: DRAFT OUTLINE RATIFIED**
- **FEBRUARY: SBFB DEVELOPED**
- **APRIL: WRITING BEGINS AFTER 4/24/97 WG MEETING**
- **OCTOBER: PRELIMINARY DRAFT ISSUED @ NUMUG AND DMCC MEETINGS**

**DMCC TECHNICAL MEETING
October 6-8, 1998; North Las Vegas, NV**

THE EXECUTION: WORKING GROUP ACTIVITIES

1998

- **JANUARY: PRELIMINARY DRAFT REVIEWED @ AMS ANNUAL MEETING**
- **MARCH: 1ST DRAFT ISSUED (OVER 250 PEER REVIEW COMMENTS RECEIVED)**
- **JULY: 2ND DRAFT ISSUED**
- **AUGUST: 3RD DRAFT ISSUED AND FORWARDED TO ANS-3.0**
- **SEPTEMBER: 1ST ANS-3.0 REVIEW MEETING (Atlanta, GA)**

DMCC TECHNICAL MEETING
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THE EXECUTION: WORKING GROUP ACTIVITIES
1999

- **JANUARY: 4TH DRAFT TO ANS-3.0**
- **FEBRUARY: 2ND ANS-3.0 REVIEW MEETING
(Tampa, FL) – CONSENSUS ACHIEVED**
- **FEBRUARY: 5TH DRAFT TO NFSC REVIEW**
- **MAY: MORE THAN 80 NFSC WRITTEN COMMENTS
RECEIVED**
- **JUNE: NFSC COMMENT RESOLUTION MEETING
(Boston, MA) – VERBAL CONSENSUS ACHIEVED**
- **SEPTEMBER: NFSC COMMENTS RESOLVED, 7TH
DRAFT ISSUED**
- **OCTOBER: SSC APPROVAL**
- **NOVEMBER: ANSI BSR APPROVAL**
- **DECEMBER: ANSI PUBLICATION/DOE-EH
RECOGNITION AS A VCS**
- **DECEMBER: DOE ADOPTION THROUGH THE
METEOROLOGY TOPICAL COMMITTEE**

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**6TH DRAFT ANSI/ANS-3.11
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- Appendix C Meteorological Monitoring for Stability Class
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- Appendix D Optional Site Selection Techniques**
- Appendix E Guidelines for Performing Wind Computations**

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Appendix E

Institutionalization of Meteorology

**DMCC TECHNICAL MEETING
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(Include 1-page file from DMCC web page)

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Appendix F

Tennessee Valley Authority's REMIC Program

**DMCC TECHNICAL MEETING
October 6-8, 1998; North Las Vegas, NV**

(Include 16-page file)

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Appendix G

Chemical Emergency Planning Using DOE TEEL's

**DMCC TECHNICAL MEETING
October 6-8, 1998; North Las Vegas, NV**

(Include 20-page file)

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Appendix H

Meteorology Topical Committee

**DMCC TECHNICAL MEETING
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**DOE/EH-31 Meteorology Topical
Committee**

Carl A. Mazzola, Stone & Webster

**7th DMCC Meeting
Santa Fe, NM
September 13, 1999**

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DOE METEOROLOGY TOPICAL COMMITTEE MEMBERSHIP

Carl Mazzola	SWEC	Chairman
Rob Addis	SRS	Member
Jeff Baars	LANL	Member
Vic Cassella	BNL	Member
Kirk Clausen	INEEL	Member
Gina Deola	SNL	Member
Jim Fairobent	DOE/NN-60	Member
Paul Fransioli	YMPO	Member
Frank Gouveia	LLNL	Member
George Greenley	Pantex	Member
Reed Hodgkin	RFETS	Member
Dana Hoitink	Hanford	Member
Walter Schalk	ARL/SORD	Member
Gary Worley	Y-12/ETTP	Member

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4.0 OBJECTIVES

- 1) Function as the Preparing Activity/Reviewing Activity for developing and implementing meteorological standards for the DOE TSPO. In this capacity the committee will provide assistance to the Office(s) of Primary Interest with **coordination of newly-published standards.**

FY99 Activities

- **Involved in development of ANSI/ANS-3.11.**
- **Identified framework for recognition of ANSI/ANS-3.11 as a VCS.**
- **Developed article entitled, "The Meteorological Topical Committee – A Facilitating Organization", for the DOE Technical Standards Program newsletter, "The Standards Forum".**

Proposed FY00 Activities

- **Provide specific guidance to DOE sites on incorporating ANSI/ANS-3.11 into M & O Contract (S/RID's, WSS, List B).**

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4.0 OBJECTIVES

- 3) Serve as an **advisory group for the development and review of standards, directives, guides, and handbooks associated with the atmospheric sciences**, for national or international use.

FY99 Activities

- **Identified 18 ASTM meteorological/air quality monitoring standards as candidate VCSs.**

- **Developed a draft Atmospheric Information Resources (AIR) meteorological program support function-DOE Policy/Order/Guide/Manual crosswalk.**

- **Developed a meteorological data quality assurance training session for WIPP EMD.**

Proposed FY00 Activities

- **DMCC development of additional guidance documents (i.e., guides and handbooks) and training programs to assist DOE sites in implementing ANSI/ANS-3.11.**

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- **DMCC development of directive on atmospheric monitoring/modeling.**

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4.0 OBJECTIVES

- 4) Partner and interface with non-DOE Standards Development Organizations (SDO's) [i.e., American National Standards Institute (ANSI), ANS, and American Society for Testing and Materials (ASTM)]. **Develop, when the need arises, a government-wide technical position on meteorology standards for adoption by non-DOE technical standards entities.**

FY99 Activities

- **Established strong working relationship with ANS as an SDO during 3+-year process of developing ANSI/ANS-3.11.**
- **Developed a draft White Paper on the impact of ANSI/ANS-3.11 on DOE meteorological programs**

Proposed FY00 Activities

- **DMCC to develop a technical position on meteorology standards and their impact on DOE meteorology programs.**
- **Establish a working relationship with ASTM and other SDOs, as appropriate.**

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4.0 OBJECTIVES

- 5) Establish and maintain **liaison with other DOE topical committees having mutual interests through the TSPO**. [The Committee shall advise all other DOE technical committees on the preparation of standards related in subject matter and the correlation and consolidations of similar standards prepared by these committees, and promote cooperation between these technical committees in areas of common interest.]

FY99 Activities

- **Established liaisons with the Metrology and Biota and Dose Assessment Topical Committees at the May, 1999 TSMC Meeting 99-5 in Nashville, TN.**

Proposed FY00 Activities

- **Broaden liaisons and establish joint projects, as appropriate, with the Metrology and Biota and Dose Assessment Topical Committees.**
- **Review applicable standards sponsored by the Metrology and Biota and Dose Assessment Topical Committees.**

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8.0 TOPICAL COMMITTEE MEETINGS

Committee meetings will normally be held in conjunction with regularly scheduled workshops and conferences at which meteorological program managers attend (e.g., DMCC Annual Meeting). The DMCC Steering Committee will also meet via teleconference quarterly, or when issues require resolution. When the physical presence of the Steering Committee is required, special meetings will be scheduled, as appropriate.

FY99 Activities

- **Kick-off meeting at the 10/6/98 DMCC Roundtable in Las Vegas NV and distribution of draft AIR.**

- **Quarterly teleconference 99-01 on 2/18/99. Discussed ANSI/ANS-3.11 progress and 18 ASTM standards.**

- **Meeting at the 9/13/99 DMCC Roundtable in Santa Fe, NM.**

Proposed FY00 Activities

- **Quarterly teleconferences 00-01 through 00-04 to discuss MTC mission and activities.**

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Appendix I

SCAPA-DMCC-NUMUG Meeting: October 2000

**DMCC TECHNICAL MEETING
October 6-8, 1998; North Las Vegas, NV**

DMCC-NUMUG-SCAPA JOINT MEETING

- 1) Proposed DMCC-NUMUG-SCAPA Joint Meeting
 - a) Where: DOE/NV Conference Room, N. Las Vegas, NV
 - b) When: 0800 10/16/00 to 1200 10/20/00
 - c) Why: Technical similarities of each group, timing of meetings consistent with each group, synergy of information exchange, funding constraints

- 2) Preliminary Meeting Breakdown
 - a) SCAPA 0800 10/16/00 to 1200 10/17/00
 - b) DMCC 1300 10/17/00 to 1700 10/18/00
 - c) NUMUG 0800 10/19/00 to 1200 10/20/00

- 3) Logistics
 - a) Hotel availability
 - b) Availability of DOE/NV Conference Room
 - c) Refreshments during meetings

- 4) Group Banquet 1800-2000 10/18/00

- 5) Yucca Mountain Tour After end of NUMUG Meeting?

- 6) Open Discussion