

9th Conference on Air Quality Modeling

Final Agenda

9 - 10 October 2008
Research Triangle Park, NC

DAY 1 – October 9, 2008

8:30 – 8:45 Introduction and Opening remarks

Richard “Chet” Wayland, Division Director, Air Quality Assessment Division
Tyler Fox, Leader, Air Quality Modeling Group

8:45 – 9:30 Appendix W Refresher (2 presentations, 15 minutes each)

Provide program overview and how current process is intended to work. The goal is to provide clarity and understanding to stakeholders as well as updates on various efforts in support of NSR/PSD permit activities including but not limited to reinstating the Model Clearinghouse.

General Overview

Tyler Fox, EPA/OAQPS

Clarification Memoranda

Roger Brode, EPA/OAQPS

Q&A

9:30 – 10:30 Non-guideline Applications (3 presentations, 20 minutes each)

Provide presentations with an overview of several applications of dispersion models that are not covered by Appendix W but are important for environmental programs and policy development.

2002 National Air Toxics Assessment (NATA)

Ted Palma, EPA/OAQPS

AERMOD Experiences w/ Birmingham PM2.5 Study

Leigh Bacon/Joe Sims, ADEM

Use of Photochemical Models for NEPA: New Oil & Gas Wells

Ralph Morris, ENVIRON

10:30 – 10:45 BREAK

10:45 – 12:00 Use of Gridded MET in Dispersion Models (3 presentations, 20 minutes each)

This session is designed to follow up from discussions at 8th Modeling Conference on this topic of exploring the state-of-the-science of these assimilated data output and discuss where the Agency stands on this effort with respect to informing Appendix W models.

Introduction

Bret Anderson, EPA Region 7

MM5-to-AERMOD tool development

Roger Brode, EPA/OAQPS

MM5/WRF-to-CALPUFF model development

Herman Wong, EPA Region 10

Q&A

12:00-1:15 LUNCH BREAK (ON YOUR OWN, CAFETERIA IS AVAILABLE)

1:15 – 3:30 Current Guideline Models - AERMOD (4 presentations, 30 minutes each)

AERMOD Implementation WorkGroup (AIWG)
AERMOD Modeling System: Status & Updates
AERMOD non-regulatory tools: Status & Updates
AERMIC Update
Q&A

Randy Robinson, EPA Region 5
Roger Brode, EPA/OAQPS
James Thurman, EPA/OAQPS
Roger Brode, EPA/OAQPS

3:30 – 3:45 BREAK

3:45 – 6:00 Current Guideline Models – CALPUFF (5 presentations, 15 to 30 minutes each)

CALPUFF Modeling System: Status & Updates
Science and Implementation Issues
API Efforts to Address CALPUFF Chemistry Issues
CALPUFF Development, Maintenance & Evaluation
CALPUFF Performance Evaluation
Q&A

Tyler Fox, EPA/OAQPS
Roger Brode, EPA/OAQPS
Prakash Karamchandani, AER
Joe Scire, TRC
Bret Anderson, EPA Region 7

DAY 2 – October 10, 2008

8:30 – 8:45 Summary of Day 1 Discussions

8:45 – 10:00 Review of Current and Available Model Evaluation Methods (4 presentations, 20 minutes each)

This session will follow up from discussion at the 8th Modeling Conference and provide an overview of current model evaluation methods and discuss new approaches and methods available in conducting model performance evaluations for meteorological and air quality models.

Overview of Atmospheric Model Evaluation Tool (AMET)	Wyat Appel, EPA/ORD
Comments on Evaluation Procedures for AQ/Met Models	Bob Paine, ENSR
AERMOD Evaluation for Non-Guideline Applications	Roger Brode, EPA/OAQPS
Evaluation Methods for Long Range Transport	Bret Anderson, EPA Region 7
Q&A	

10:00 – 10:15 BREAK

10:15 – 12:30 Review of New and Emerging Models/Techniques for Future Consideration (6 presentations, 20 minutes each)

This session will consist of presentations on new and emerging models and techniques for EPA consideration under Appendix W and discussion of current capabilities and future work required to meet regulatory needs.

Long range transport modeling (particle, puff, etc.)	
General Overview	Bret Anderson, EPA Region 7
Overview of HYSPLIT	Roland Draxler, NOAA
Overview of Puff-Particle Model (PPM)	Joe Scire, TRC
Q&A	

Single-source modeling for O ₃ , PM _{2.5} and visibility	
Overview of CMAQ MADRID with SCICHEM	Prakash Karamchandani, AER
Single Source Modeling w/ Photochemical Models	Kirk Baker, EPA/OAQPS
Single Source O ₃ & PM _{2.5} Modeling	Ralph Morris, ENVIRON
Q&A	

12:30-1:30 LUNCH BREAK (ON YOUR OWN, CAFETERIA IS AVAILABLE)

1:30-2:00 Summary of Day 2, Morning discussions

**2:00-5:00 Public Presentations (SEE ATTACHED)
(As needed)**

DAY 2 – October 10, 2008

2:00-5:00 Public Presentations (as of 10/7/08) (As needed)

Comments on behalf of the American Petroleum Institute, Dr. Bruce A. Egan (Egan Environmental Inc.)

Case study of comparisons of MM5/CALMET modeling outputs, Doug Blewitt

Use of NOAA Reanalysis data for AERMET/AERMOD, Peter Manousos (FirstEnergy Corp)

Air and Waste Management Association (AWMA)—multiple presentations (75 minutes, total)

Introduction - George Schewe

AERMOD issues (George Schewe or Mark Bennett)

CALPUFF issues (Gale Hoffnagle)

Meteorological input to models (Joe Scire)

Other Models: CMAQ, CAMx, etc. (TBD)

Implementation issues (Ron Petersen)

Emissions & Modeling Development for PM2.5 (Ryan Gesser)

Comments on behalf of Utility Air Regulatory Group (UARG), Cindy Langworthy (Hunton & Williams LLP)

Regulatory Air Quality Models for Next Generation Computers: Prospects and Challenges, George Delic (HiPERiSM Consulting)