

OTC 2008 Ozone Standard Planning Update

**SIP Steering Committee
July 16, 2009**

Multi-Pollutant Planning

2008 8-hour ozone NAAQS

- Attainment date for moderate areas expected to be 2nd quarter 2016
- Attainment demonstration SIP due 3 years after final designations or 2nd quarter 2013
- OTC Modeling complete at least 1 year in advance to allow for state rule development or 2012
- Therefore, SIP-quality modeling including consideration of control measures must be completed by end of 3rd quarter 2011

Multi-Pollutant Planning

2006 24-hour PM_{2.5} NAAQS

- MA attains the PM standard. For non-attainment areas, attainment date is 2nd quarter 2014
- Attainment demonstration SIP due 2nd quarter 2012
- OTC Modeling schedule completed about one year in advance or 2011
- Therefore, SIP-quality modeling must be completed by end of 2010

SIP Development Approach

- Collaborative approach among OTC States, other regions, and with USEPA on modeling and inventory development
 - Base and future emissions
 - Model inputs and model runs
 - Sharing resources, coordinating modeling centers
- States working regionally to identify and develop control options for inclusion in SIPs
 - Regional consistency on measures
 - Consistent information for technical analysis

Current Work to Meet SIP Schedules

- Development of 2007 meteorological fields
- Emissions Inventory
 - coordination with other RPOs
 - improvements in emissions methods for certain sectors
- Control measure identification and development
 - national, regional, and state/local
- Modeling runs
 - Sensitivity and screening
 - HEDD analyses
 - SIP quality

Emission Inventory Development

Sectors

- Non-EGU Point
- EGU Point
- Mobile On-Road
- Mobile Non-Road & Off-Road
- Area
 - Agricultural Fires & Wildfires
 - Ammonia
 - Residential Wood Combustion
 - Residential Heating
 - Area VOC sources
 - Other area sources

Screening Modeling

- Provides a “ballpark” estimate of the reductions that will be needed for attainment
- Allows for the longer term development of the SIP-quality modeling platform
- 2005 emissions and 2002 meteorology will be used
- New chemistry and biogenics modules will be tested
- Per cent emission reductions by source categories reflecting “bundles” of controls (Ozone and PM)

SIP-Quality Modeling

- 2007 as both the base modeling and meteorology year
- Decision on appropriate future years for projecting growth and for control measure implementation
- Timely release of EPA guidance on using the new mobile emissions model -MOVES- to maintain our SIP modeling timeline

Additional Activities

- High Electric Demand Day (HEDD) Work Group to develop a technically sound approach to model HEDD emissions in the OTR
- Coordination with the other eastern Regional Planning Organizations on harmonizing SIP modeling efforts
- Coordination and development of emissions inventories for base and future years
- Coordination of the development of a consistent set of multi-year met database for use in the modeling effort

Stakeholder Involvement

- OTC Stakeholder Meeting - Fall 2009
- To get public input on:
 - Emissions Inventory Development
 - Mobile Source Committee's review of mobile measures
 - Stationary/Area Source Committee's review of control measures
 - Modeling Committee's activities

June 10, 2009 Charge to Committees

- Modification of November 19, 2008 Charge
- Continue to identify control strategies
- Complete first round of screening modeling by end of 2009
- By May 2010, provide Commission with information from preliminary round of screening modeling based on regional and national control measures
- Continue to seek opportunities to collaborate with other states and regional organizations