

Modeling for 8-hr Ozone NAAQS Attainment Demonstration in the Ozone Transport Region

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Modeling Protocol

- OTC plan for developing technical portion of SIP-quality ozone attainment demonstrations
- Delineates work and responsibilities for
 - Modeling
 - Data analysis
 - Emission inventory development
 - Control strategy assessment
- Workplan timeline updated in October, 2004

Modeling Guidance Issues

- Availability of guidance from EPA in December
- Use of design values averaged over a five period (2000 to 2004) or just the base year 2002 in the estimation of future design values
- Modeling demonstrations for moderate non-attainment areas will be for the year 2009
- Use of EPA modeling runs in lieu of an area demonstrating attainment for the 8-hour ozone NAAQS

Status of Regional Modeling Platform

- Preliminary modeling runs completed for August 2002 episode
- Meteorological MM5 fields for 2002 ozone season (May-September) to be completed by UMD in November, 2004
- Draft 2002 emissions expected in November, 2004

Status of Regional Modeling Platform (Continued)

- NYSDEC to begin performance modeling runs in early 2005
- Need coordination in the development of inventories for 2009 and beyond in cooperation with MANE-VU
- Need coordination in the development of control strategy scenarios within OTR

Control Strategy Development

- CALGRID2.0 model soon to be released
 - Used to assess OTR multi-p needs
 - Will be used to help develop and assess eight-hour ozone (and PM2.5) attainment strategies
 - CALGRID modeling platform upgrades will be ongoing based on need
- Need to coordinate development of 2009 OTR ozone control strategy
 - Within the OTC
 - With adjacent RPOs

Next Steps

- Prepare 2002 model-ready emission files > Nov 04
- CALGRID screening work begins with new multi-p platform > Dec 04
- Complete CMAQ performance evaluation for the OTR domain > Apr 05
- Design OTR control strategies > Sep 05
- Prepare 2009 model-ready emission files for CAA scenario and OTR control strategy scenario > Nov 05
- Complete 2009 CMAQ model runs > Jan 06

Commitment of Resources

- Renewed OTC commission support for the OTR Ozone Modeling Platform. Most OTC states still intend to use results from this modeling platform for attainment SIP submittals
- Dedication of necessary resources
- Consensus needed on inventory development, control strategies, and anticipated SIP obligations