

PM_{2.5} and Ozone Implementation



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Topics to be Discussed

- PM2.5 Implementation
- Ozone Court Decision
- Exceptional Events



PM2.5 Implementation Rule Issues

- Attainment dates
- Classifications
- PM2.5 precursors
- Modeling and attainment demonstration
- Reasonably available control technology (RACT)
- Reasonably available control measures (RACM)
- Reasonable further progress (RFP)



Attainment Dates

- State attainment demonstrations and SIP revisions are due April 2008
 - Attainment demonstrations need to provide the supporting analysis for State adoption of measures that will result in the area attaining the standards “as expeditiously as practicable”
- Under CAA, attainment date is no later than five years from date of designation (e.g. Apr. 2010)
 - Extensions of 1-5 years are possible
- Attainment based on most recent 3 years of data (e.g. 2007-9 for April 2010 attainment date)



Coverage of PM_{2.5} Precursors

- Atmospheric chemistry leading to PM_{2.5} formation is complex
- Proposed approach for PM_{2.5} implementation and new source review
 - PM_{2.5} direct emissions (includes organic carbon, elemental carbon, and crustal material) and SO₂ must be addressed
 - NO_x must be addressed in all areas, unless the State and EPA provide a demonstration finding that NO_x is not a significant contributor in a specific area.
 - VOC and ammonia do not need to be addressed, unless EPA or the State provides a demonstration that VOC or ammonia is a significant contributor in a particular area.



PM_{2.5} Implementation Rule

- Goal is to finalize the rule in March 2007
- Plan to have workshops with the States in June 2007



Elements of PM_{2.5} SIP Submittals

- Emission inventory for the nonattainment area
- List of nonattainment area sources (stationary, mobile, area) of PM_{2.5} and PM_{2.5} precursor emissions
- List identifying “reasonable” measures based on evaluation of technical and economic feasibility



Elements of PM2.5 SIP Submittals (cont.)

- Modeling assessment showing attainment as expeditiously as practicable
 - Evaluate projected air quality change in future year(s), based on reductions from reasonable measures
- RFP plan for areas requesting attainment dates beyond April 2008
 - Reductions needed by 2009 and 2012 (if applicable) for generally linear progress from base year (e.g. 2002) to attainment date



Elements of PM2.5 SIP Submittals (cont.)

- Contingency measures
- Provisions addressing section 110(a)(2) requirements, as necessary
- Rules adopted for attaining the standard



Exceptional Events

- SAFE-TEA-LU revised section 319 of the Act requiring EPA to proposed a rule on exceptional events by March 1, 2006, and to finalize the rule within 1 year of proposal.
- The final rule was signed by the Administrator on March 14, 2007.



Exceptional Events

- The rule addresses the following issues:
- Definition and applicability
- Procedures for exceptional events, including natural events, flagging, notification and demonstrations to support exclusion of data
- Actions to protect public health (mitigation efforts)
- Treatment of wildland fires
- How prescribed fire issues may qualify as an exceptional event
- How to address data impacted by emissions from fireworks