SIP Planning in the OTC
Deadlines and Schedules

MARAMA SIP Workshop
February 11, 2009

Anna Garcia, OTC Executive Director
Deadline

Definition:
1. A time limit, as for payment of a debt or completion of an assignment.
2. A boundary line in a prison that prisoners can cross only at the risk of being shot.

Origin (1864) from the Civil War camps – a real line in the dirt: “If you cross this line you’re dead”
Popularized by the newspaper business: “Your story is dead--You are dead--if you go beyond this time to finish it.”

So now for a look at some of our SIP planning “deadlines”
## Overall NAAQS Picture

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
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<tbody>
<tr>
<td><strong>Ozone (2008 NAAQS)</strong></td>
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<td>Ozone Non-Attainment Designation</td>
<td>Identify Ozone SIP Measures</td>
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<td>Ozone SIP due</td>
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<td><strong>PM2.5 (2006 NAAQS)</strong></td>
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<td>PM2.5 Non-Attainment Designation</td>
<td>Identify PM2.5 SIP Measures</td>
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<td>PM2.5 SIP due</td>
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<td><strong>Regional Haze</strong></td>
<td>Regional Haze SIPs due</td>
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<td>Progress Report for Haze due</td>
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</tbody>
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- **Ozone (2008 NAAQS)**: Identify Ozone SIP Measures, Ozone SIP due
- **PM2.5 (2006 NAAQS)**: Identify PM2.5 SIP Measures, PM2.5 SIP due
- **Regional Haze**: Regional Haze SIPs due, Progress Report for Haze due
Designation and SIP Schedule


Attainment Date

- Based on the Classification of the Area
- Attainment is based on the Design Values Statistic, 3 years of Data
- Classifications Thresholds Set by USEPA Rule

Diagram:
- Marginal Design Values
- Moderate Design Values
- Serious Design Values

Timeline:
- 2007 to 2020

Marginal Attainment in 2008
Moderate Attainment in 2015
Serious Attainment in 2018
SIP Timeline for New O₃ NAAQS

2008 Ozone NAAQS Attainment Dates 2013 - 2030
SIP Timeline for New $O_3$ NAAQS

- 2008: Identify control measures & develop technical information
  - Begin inventory work; do preliminary modeling

- 2009: Complete air quality modeling of measures

- 2010: States begin rule development process

- 2011: States propose SIPs

- 2012: Final SIPs submitted to EPA

- 2013: National Actions

OTC Action: 
State Actions / Innovation: 

Steps Needed for On-Time SIP Submissions

- 2007 met year development
- EI development; coordination with other RPOs; possible sectoral improvements
- Control measure development – national, regional, and state / local
- Screening modeling
- SIP quality modeling
- State rule development
- Attainment demonstrations
OTC Strategy Development

- Stationary and Area Source Committee
- Mobile Source Committee
- Modeling Committee

Identify regional control measures & develop technical information

Final SIPs submitted to EPA

State rule development
Committee Recommendations

• Program Requirements / Control Level
• Appropriate Format, e.g., model rule, performance standard, etc.
• Technical Support Information
Committee Short Term Time Line

Dec – Jan – Committees Organize & Identify Potential List of Measures

Jan – Feb – Committee Meetings
    Review Potential Measure Lists
    Solicit Input for Other Measures to Consider

Mar – Apr – Committees Recommend Initial Measures

SIP Development Efforts

• States working regionally and across regions on modeling and inventory development
  – Estimating emissions reductions
  – Sharing resources, coordinating modeling centers
  – Screening and SIP Quality Modeling

• States working regionally to develop control options for SIPs to provide:
  – Regional consistency on measures
  – Consistent information for technical analysis
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<tr>
<th></th>
<th>2009 Q1</th>
<th>2009 Q2</th>
<th>2009 Q3</th>
<th>2009 Q4</th>
<th>2010 Q1</th>
<th>2010 Q2</th>
<th>2010 Q3</th>
<th>2010 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OTC Ozone Process</strong></td>
<td>Identify control measures and develop technical information; screening modeling begins asap</td>
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<td>Screening modeling of measures; work on additional measures if needed</td>
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<td></td>
<td>1st pkg of rec measures</td>
<td>2nd pkg of rec measures</td>
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<td></td>
<td>Work on technical support document for measures and modeling (TSD)</td>
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<td><strong>State PM2.5 Process</strong></td>
<td>Identify control measures and develop technical information; screening modeling begins asap</td>
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<td></td>
<td>Inventory work concludes and SIP quality modeling of measures occurs</td>
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<td>PM rec measures</td>
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<td></td>
<td>Work on TSD for measures &amp; modeling</td>
<td>Completion of TSD (measures &amp; modeling)</td>
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<tr>
<td><strong>Screening Inventory Development</strong></td>
<td>Develop base year</td>
<td>Develop projection year</td>
<td>Submit all inputs by month 1 for 1st run</td>
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<td>Conduct runs for PM 2.5 and 2nd pkg of ozone measures</td>
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<td><strong>SIP Quality Inventory Development</strong></td>
<td>Develop base year inventory (2005 improvements and/or 2008) for all pollutants for met/modeling year: 2007</td>
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<td>Develop projection year info</td>
<td>All inv/model inputs due to modelers in October</td>
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<td><strong>Screening Modeling</strong></td>
<td>Develop 2007 meteorological data with UMD/contract assistance</td>
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<td>1st O3 measures run</td>
<td>PM 2.5 measures run</td>
<td>2nd O3 measures run</td>
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<td>PM runs completed; default O3 #s available</td>
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<td>Year</td>
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<td><strong>OTC Ozone Process</strong></td>
<td>Inventory update work concludes and SIP quality modeling of measures occurs</td>
<td>State Rule Development</td>
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<td><strong>SIP Quality Inventory Development</strong></td>
<td>Revise inventory information as appropriate for ozone modeling</td>
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Additional Activities

• NY DEC did a quick modeling run with a 40% NOX reduction from all sources in the OTR – all sites below 75ppb, but some just barely

• Jeff Underhill, New Hampshire, is assessing the capabilities and coordination of future regional modeling efforts