



# Stationary and Area Sources Committee Recommendations

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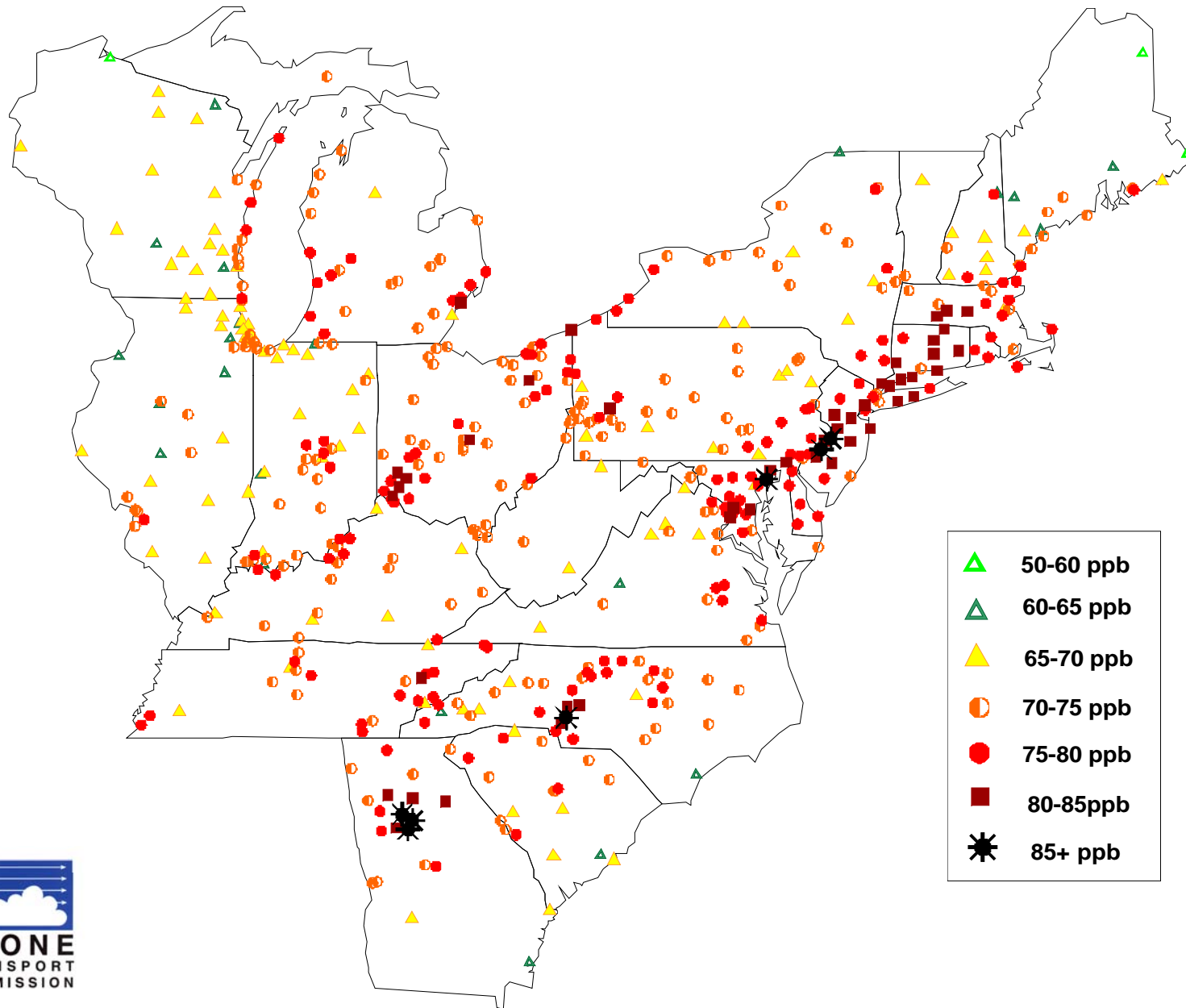
OTC Annual Meeting 2010  
Baltimore, MD

# Outline of Presentation

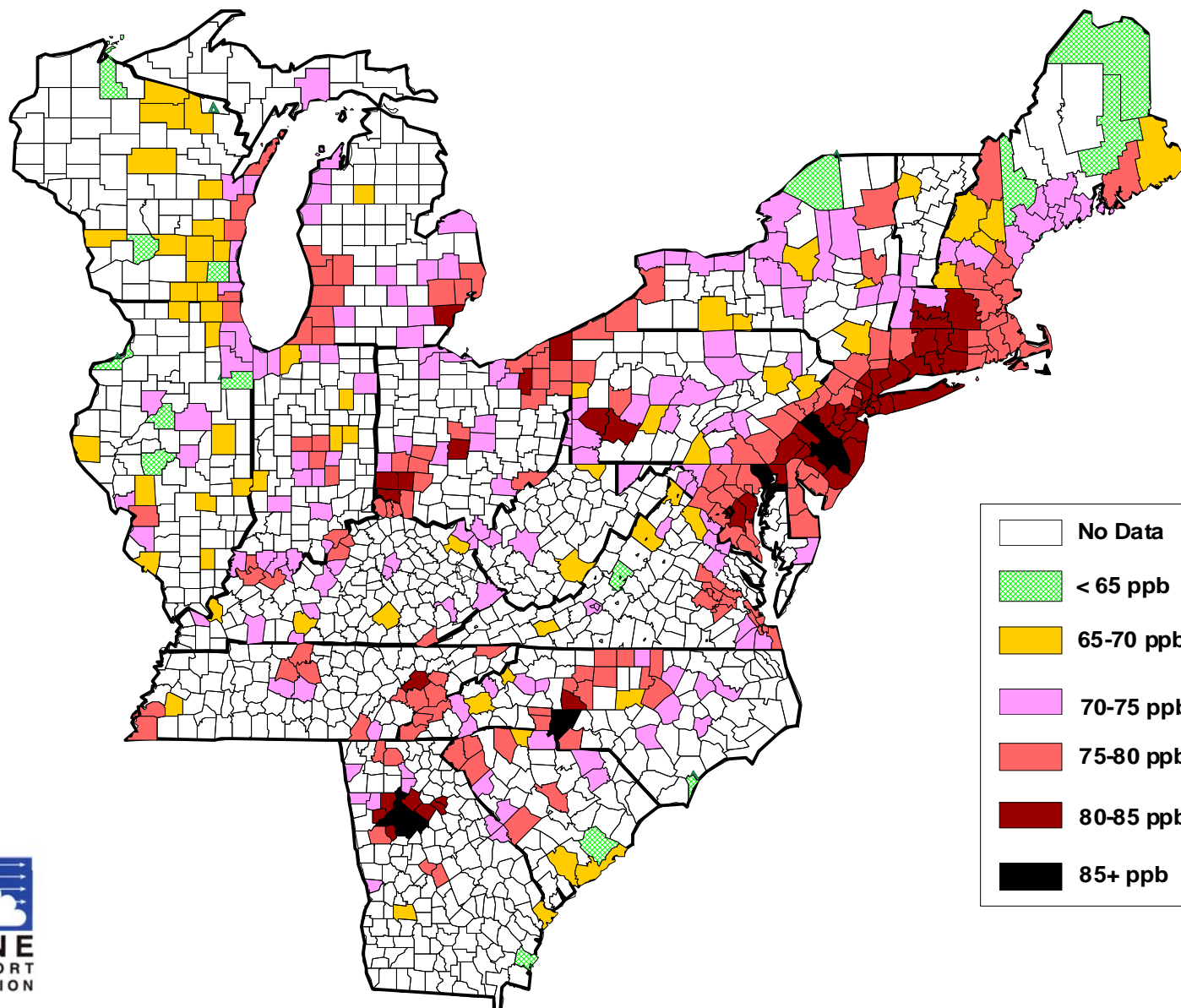
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- Air Quality Update
  - Map of design values (2007-2009)
- Measure Development History
  - Charge to the Committees
- SIP Long Term Timeline
  - About half way to due date
- Committee Recommendations
  - Model Rules
- Measures for Further Development
- Perspective on Federal Measures

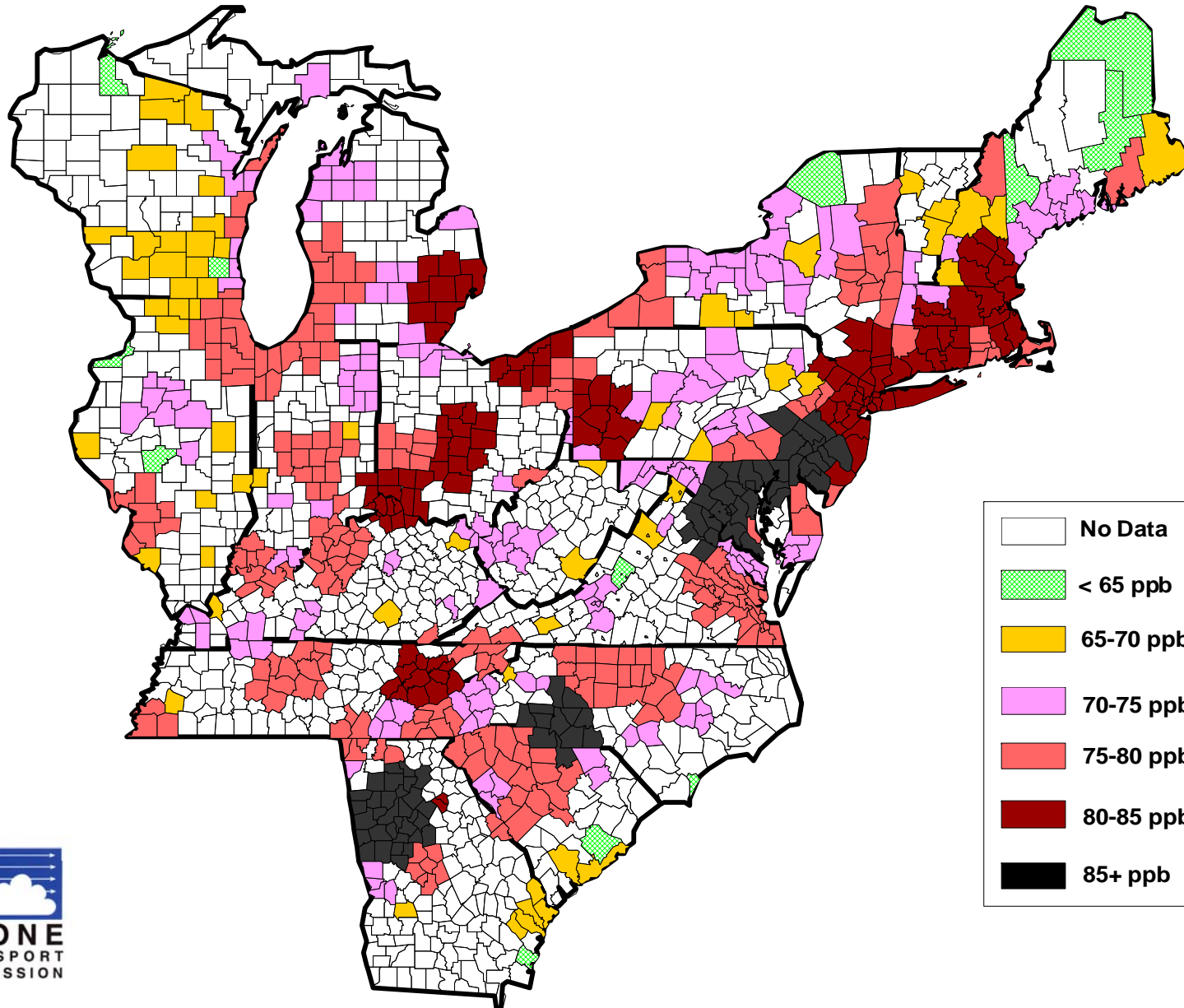
# Potential Nonattainment By Monitor (2007-2009)



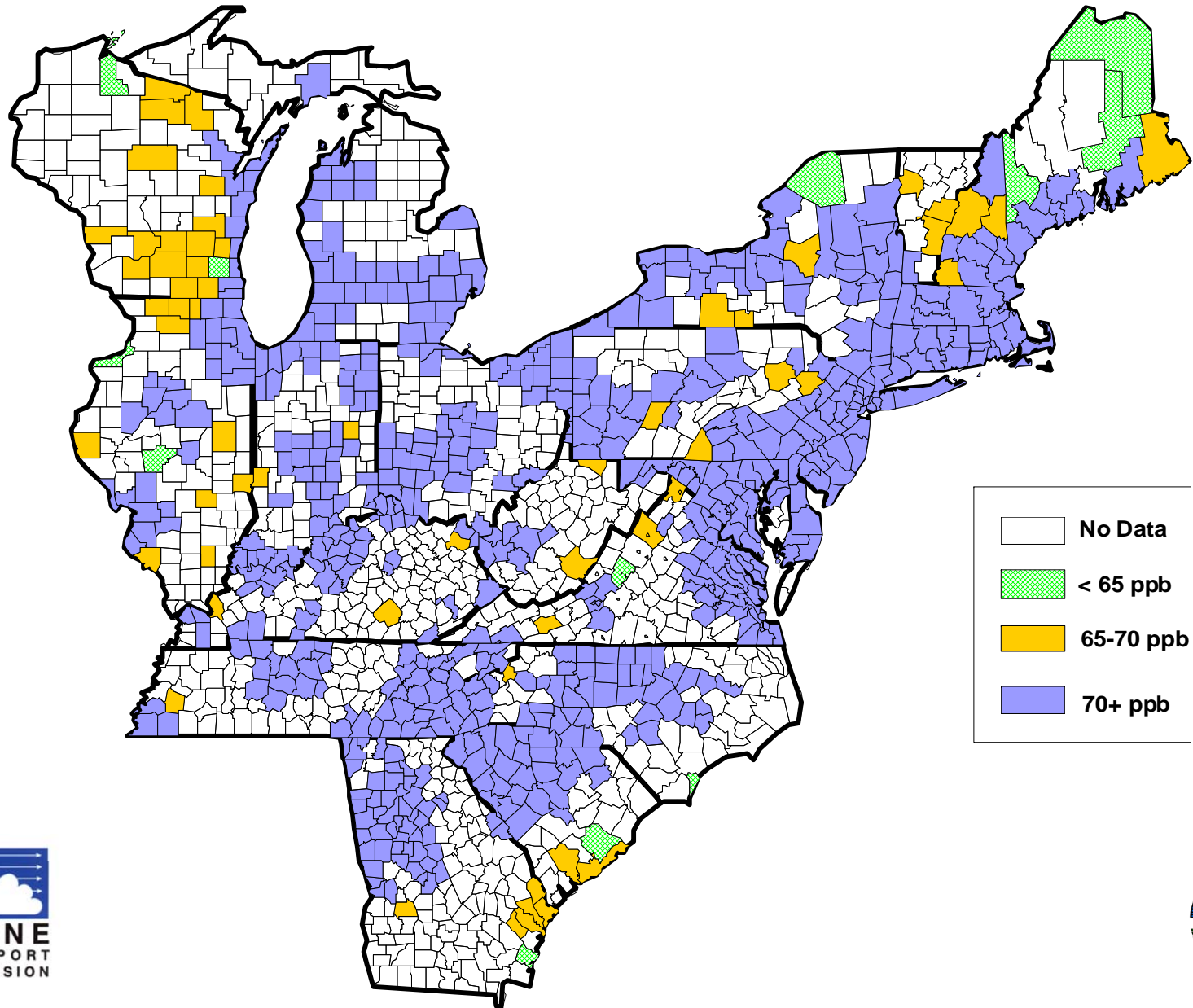
# Potential Nonattainment By County (2007-2009 DV)



# Potential Nonattainment By CSA (2007-2009 DV)

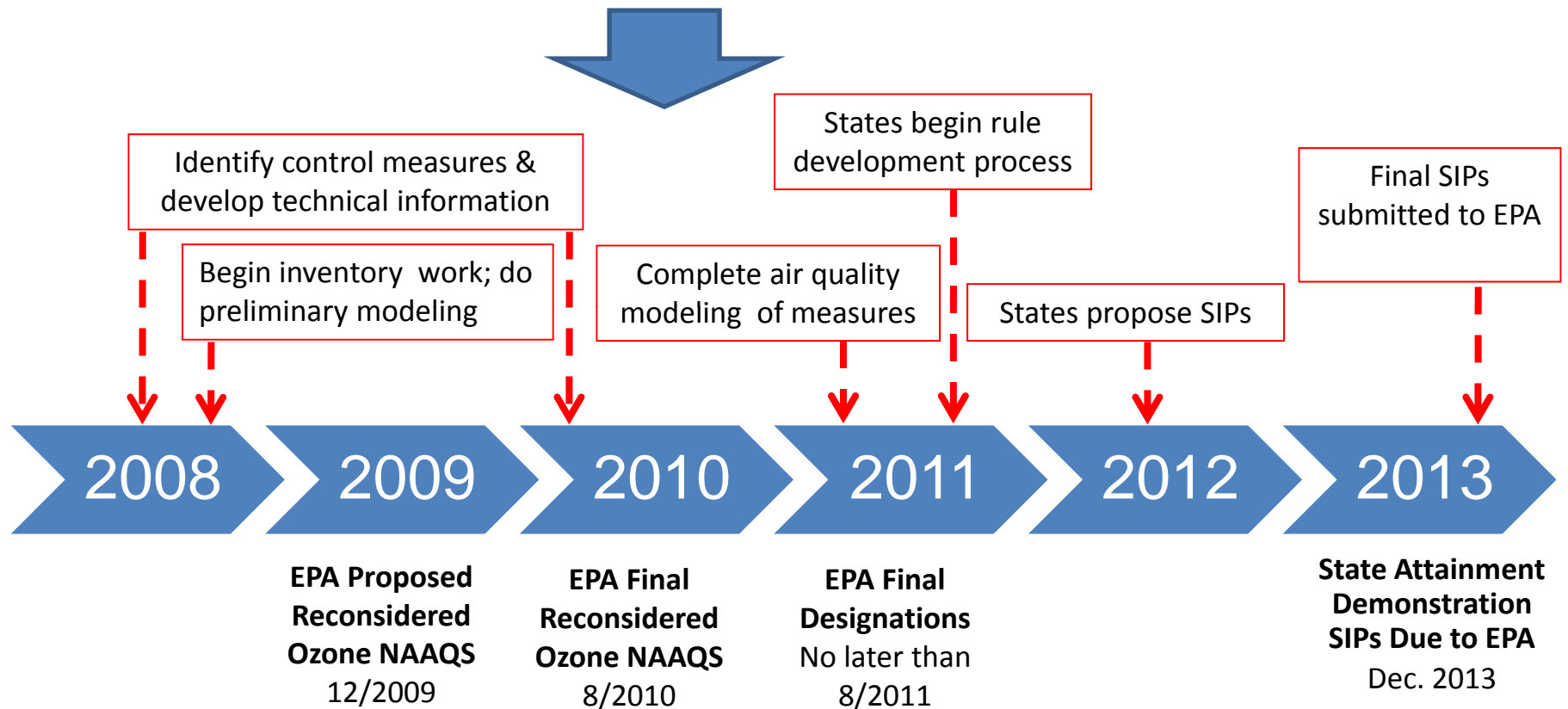


# Potential Nonattainment By CSA (2007-2009 DV)





# Updated Timeline for OTC Planning



## Likely Attainment Dates for Reconsidered Ozone Standard

Moderate – [~2017 – Design value years (clean data) 2015, 2016 and 2017]

Serious – [~2020 – Design value years (clean data) 2018, 2019 and 2020]



# OTC Charge to the Committees



*-OTC Fall Meeting November 2009*

**Charge to the Committees of the Ozone Transport Commission on  
Development of A Memorandum of Understanding on  
Adoption of New Local Control Measures Toward  
Achieving the Ozone National Ambient Air Quality Standard (NAAQS)**

Connecticut

Delaware

District of Columbia

The Ozone Transport Commission (OTC) directs the Executive Staff and the OTC Committees, including the Stationary and Area Sources Committee, the Mobile Source Committee, and the Modeling Committee, to jointly develop a Memorandum of Understanding (MOU) regarding the adoption of new local measures by the OTC states based on the analysis of potential control measure options currently underway by the Committees. The Executive Staff and Committees are directed to have the MOU available for consideration by the Commission at its June 2010 meeting.

# Measure Development Process

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- February 2009, OTC Committee Meeting
  - Presented timeline for SIP development
  - Requested ideas for control options
- June 2009, OTC Annual Meeting
  - Presented White Papers
- September 2009, OTC Committee Meeting
  - Presented Guidelines
  - Described recommended provisions

# Measure Development Process

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- November 2009, OTC Fall Meeting
  - Review of comments received
  - Requested more comments
  - Received Commission Charge
- March 2010, OTC Committee Meeting
  - Presented Draft Model Rules
  - Received more stakeholder comments
- June 2010, OTC Annual Meeting
  - Presenting Committee Recommendations

# Model Rules for Approval

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- NOx Model Rules
  - Oil and gas-fired EGU boilers, performance standards
    - Oil and gas boilers definition updated
    - State specific startup / shutdown / malfunction exemptions may vary
  - Small Natural Gas ICI Boilers & Water Heaters , (a.k.a., “ULNB” model rule)
    - Added preamble to outline Model Rule intent

# Model Rules for Approval

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- VOC Model Rules
  - Architectural, Industrial and Maintenance Coatings
    - Held AIM meeting / webinar at the OTC office
    - Addressed all comments provided by industry stakeholders
  - Consumer Products
    - CSPA supports adoption of consistent Consumer Products Regulations.
  - Large Above Ground Storage Tanks
    - Requiring domes, though not all states have these tanks
    - Providing flexibility for state rules

# Stationary and Area Source

| NOx Measure                          | State Rules                        | Emissions Reduction | Cost                           |
|--------------------------------------|------------------------------------|---------------------|--------------------------------|
| Boilers serving EGUs                 | DE, NJ, MA, MD                     | 413 TPD OTR         | \$1,100 - 8,700 per ton        |
| New Small Gas Boilers                | CA, TX                             | 53 TPD OTR          | \$3,300 to \$16,000 per ton    |
| Municipal waste incinerators         | NJ, MD                             | 14 TPD OTR          | \$2,140 per ton (SNCR)         |
| HEDD EGUs                            | NJ                                 | TBD                 | \$45,000 to \$300,000 per unit |
| Stationary Generator Regulation (DG) | DE, MA, MD, NJ                     | TBD                 | \$39,700 to \$79,700 per ton   |
| Minor New Source Review              | DE, CT, MD, MA, NJ, RI, PA, VA, VT | TBD                 | \$600 to \$18,000 per ton      |
| Energy security / Energy efficiency  | TBD                                | TBD                 | TBD                            |

# Stationary and Area Source

| VOC Measure                 | State Rules                        | Emissions Reduction | Cost                        |
|-----------------------------|------------------------------------|---------------------|-----------------------------|
| AIM rule                    | CA                                 | 50 TPD OTR          | \$2,240 per ton             |
| Auto Refinishing            | CA                                 | 21 TPD OTR          | \$2,860 per ton             |
| Consumer Products 2006      | CA                                 | 19 TPD OTR          | \$7,700 per ton             |
| Lower VOC Solvent Degreaser | MD, CA                             | 13 TPD OTR          | \$1,400 per ton             |
| Gas Stations                | TBD                                | TBD                 | TBD                         |
| Large VOC Storage Tanks     | MD, NJ                             | TBD                 | \$2,288 to \$29,000 per ton |
| Minor New Source Review     | DE, CT, MD, MA, NJ, RI, PA, VA, VT | TBD                 | TBD                         |

# Measures for Further Development

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- NOx Measures
  - EGU Coal Fired Boilers
    - Backstop for trading programs
  - Stationary Generators
    - Definition of “Emergency “–under review
  - Municipal Waste Incinerators
    - Anticipating pending federal action
  - High Electric Demand Day (HEDD)
    - Units identified by states, formulating definitions
  - Renewable and Energy Efficiency
    - Enforceability for SIP credit
  - Minor New Source Review
    - Already in most OTC states



# Measures for Further Development

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- VOC Measures
  - Low Solvent Degreasers
    - *In line for drafting*
  - Stage 1 and 2 vapor pressure systems
    - *Updating discussion paper*

# Perspective on Federal Measures

- All OTC measures are suitable for federal enactment as national measures



