

# Preliminary Control Strategy for the 8-hour Ozone Standard

Prepared for MWAQC

July 27, 2005

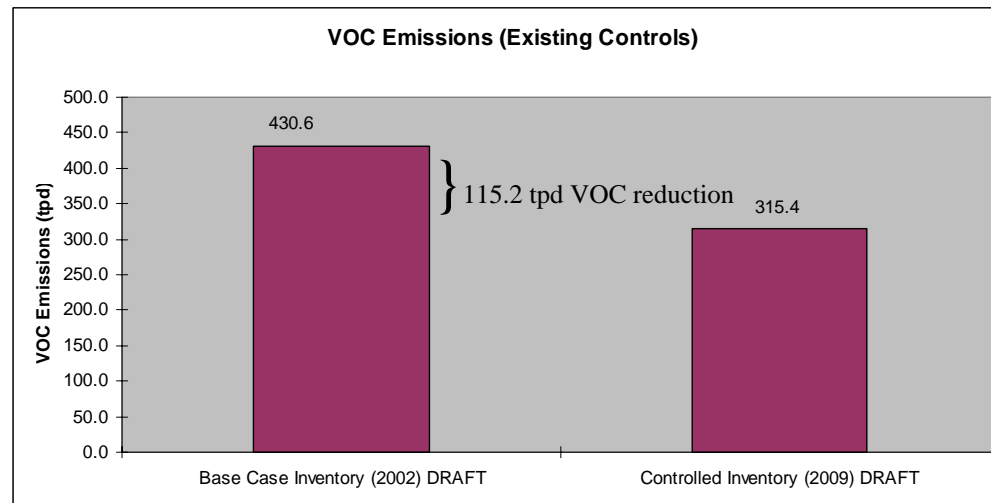
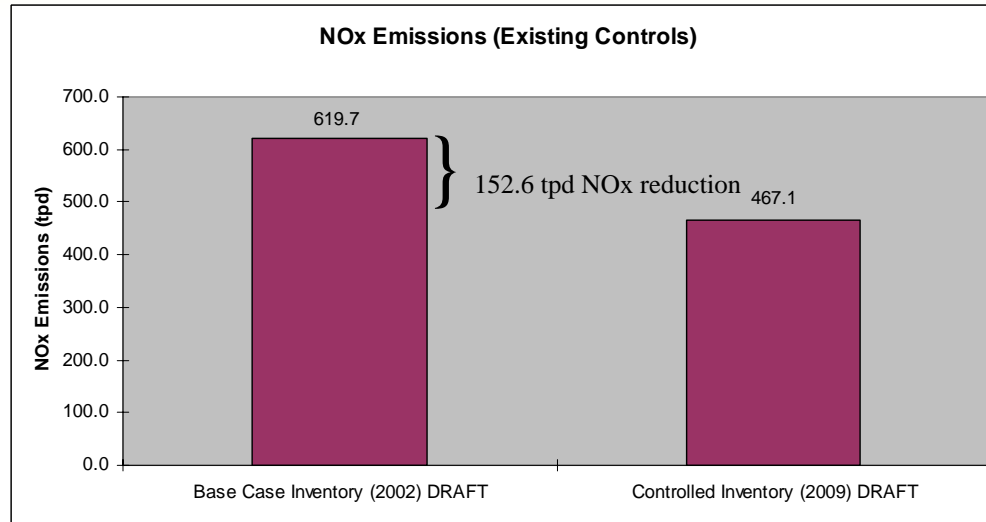


# Contents

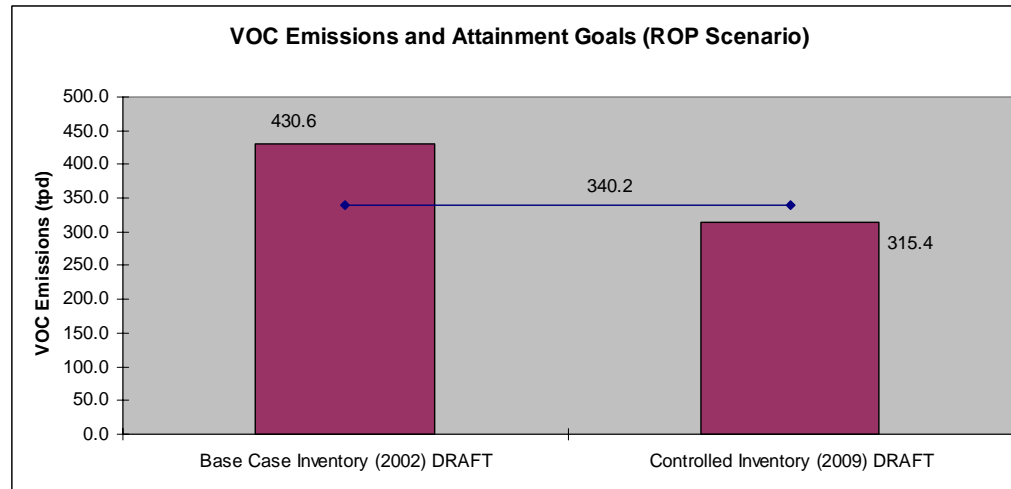
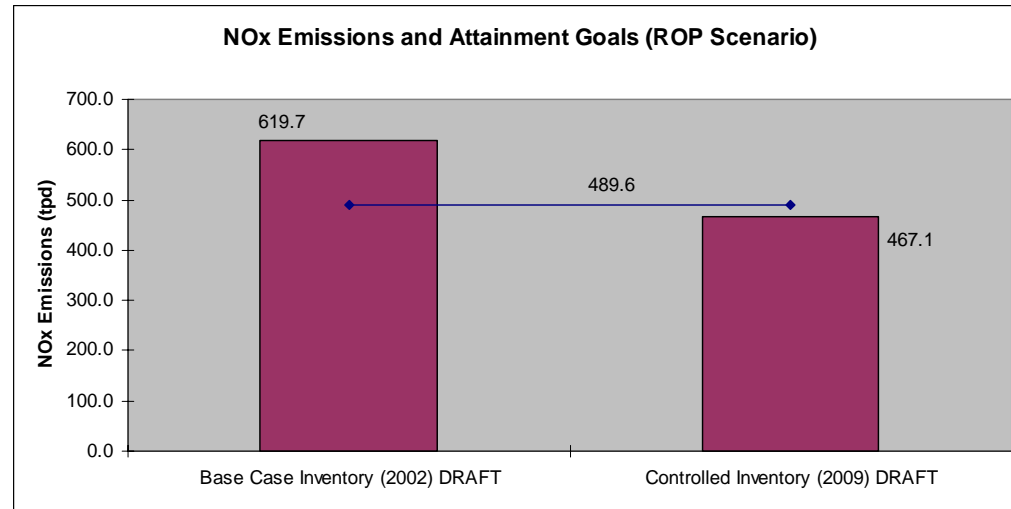
- Preliminary Emission Inventory
- Attainment or Emission Reduction Goals
- Control Measure Development



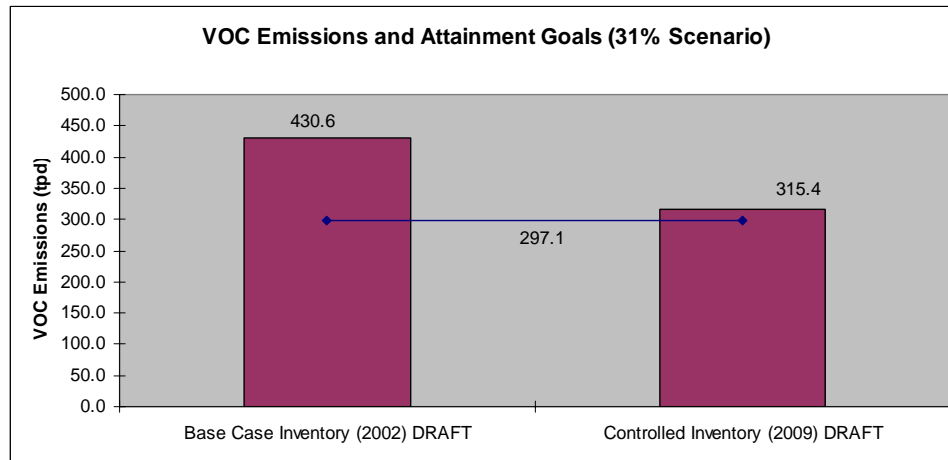
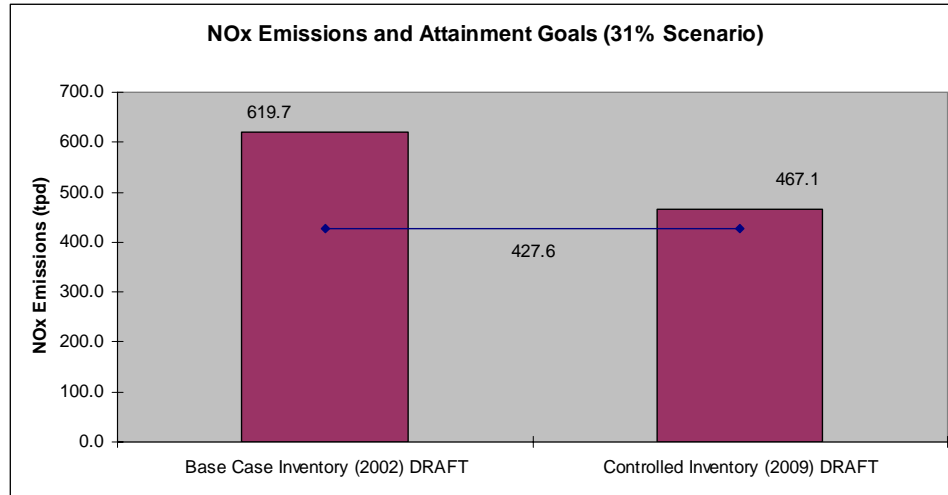
# Existing Controls



# Scenario 1 (21%, ROP)

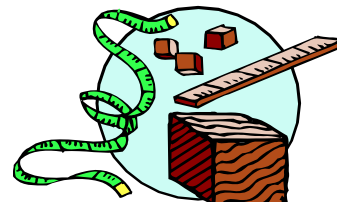


# Scenario 2 (31%)



# Preliminary Findings

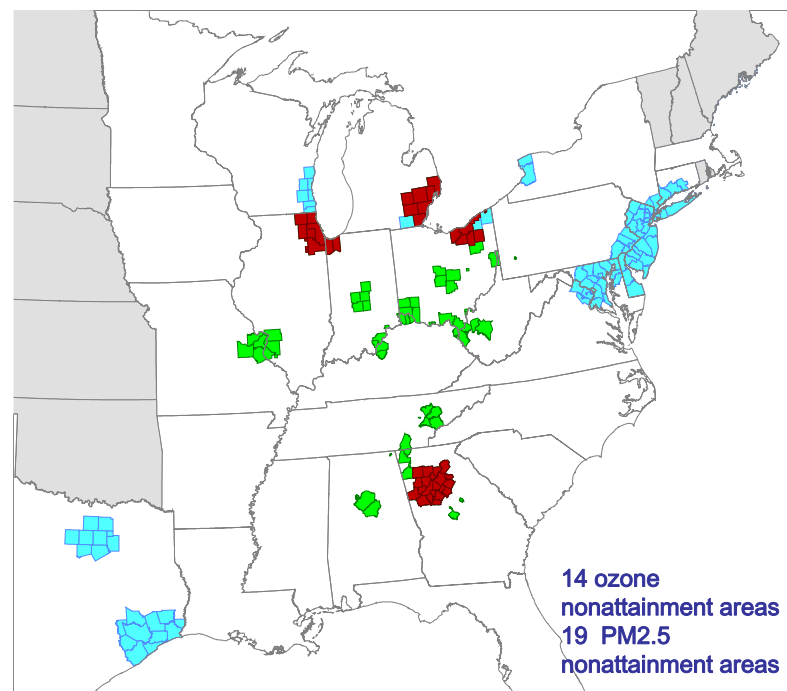
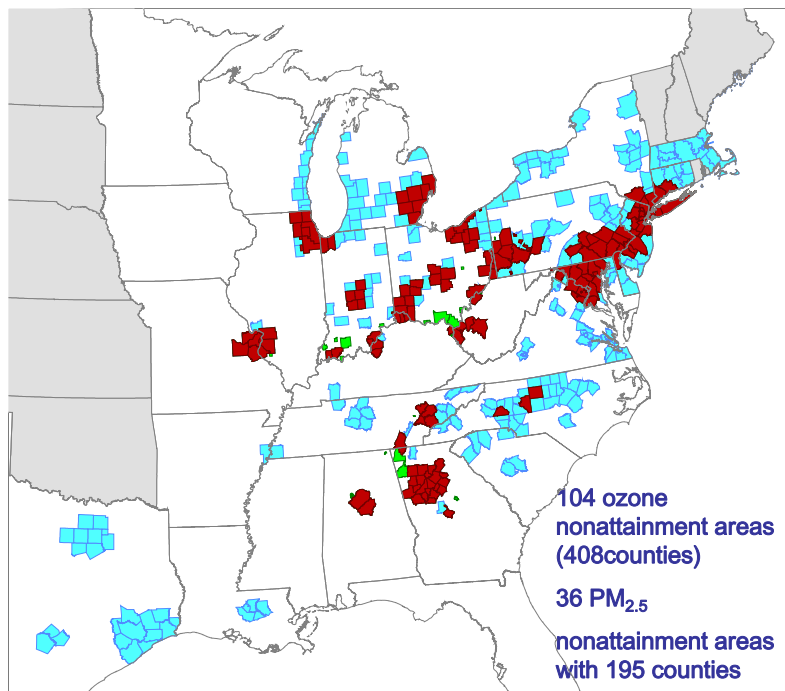
- Region may meet Rate of Progress Requirements
- Attainment will Require Adoption of Additional Controls






# Ozone and Particle Pollution: CAIR, together with other Clean Air Programs, Will Bring Cleaner Air to Areas in the East - 2010

## Ozone and Fine Particle Nonattainment Areas (April 2005)

## Projected Nonattainment Areas in 2010 after Reductions from CAIR and Existing Clean Air Act Programs



-  Nonattainment areas for 8-hour ozone pollution only
-  Nonattainment areas for fine particle pollution only .
-  Nonattainment areas for both 8-hour ozone and fine particle pollution

Projections concerning future levels of air pollution in specific geographic locations were estimated using the best scientific models available. They are estimations, however, and should be characterized as such in any description. Actual results may vary significantly if any of the factors that influence air quality differ from the assumed values used in the projections shown here.

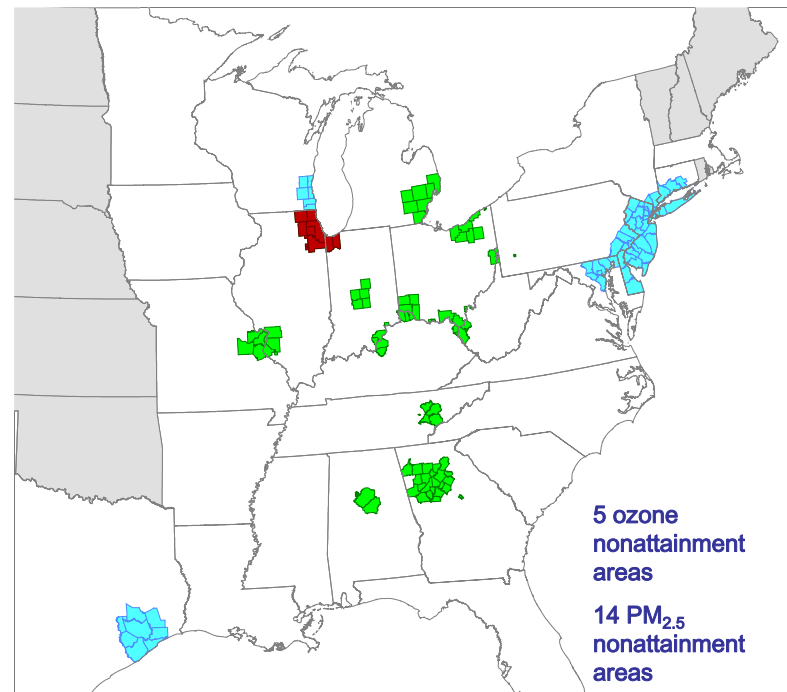
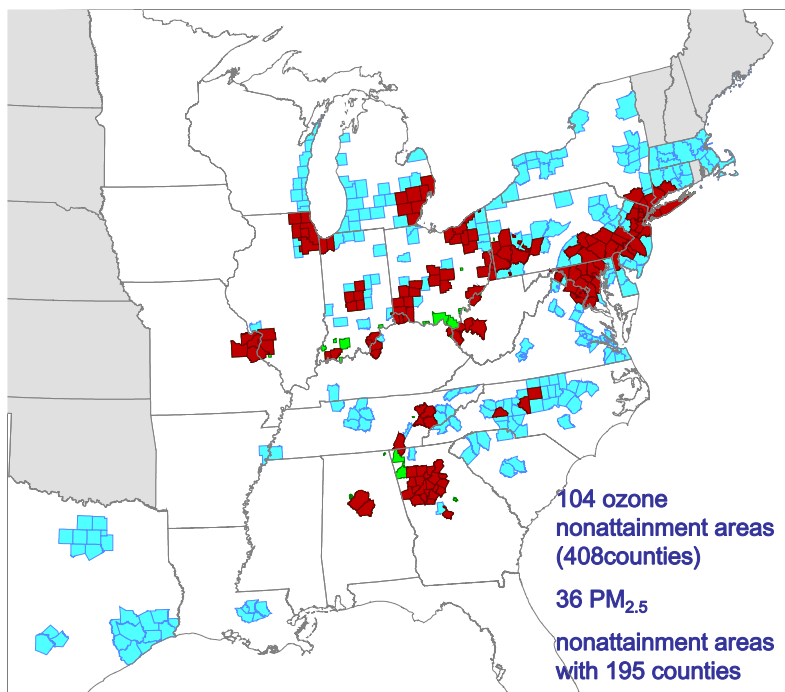
Source: EPA OAQPS.






# Ozone and Particle Pollution: CAIR, together with other Clean Air Programs, Will Bring Cleaner Air to Areas in the East - 2015

## Ozone and Fine Particle Nonattainment Areas (April 2005)

## Projected Nonattainment Areas in 2015 after Reductions from CAIR and Existing Clean Air Act Programs



-  Nonattainment areas for 8-hour ozone pollution only
-  Nonattainment areas for fine particle pollution only
-  Nonattainment areas for both 8-hour ozone and fine particle pollution

Projections concerning future levels of air pollution in specific geographic locations were estimated using the best scientific models available. They are estimations, however, and should be characterized as such in any description. Actual results may vary significantly if any of the factors that influence air quality differ from the assumed values used in the projections shown here.

Source: EPA OAQPS.





# Control Strategies

## Options to Address Shortfall (to be determined)

Potential New Measures(a)	NOx (tpd)	VOC (tpd)
Strategies within the Nonattainment Area		
<i>Power Plant Strategy Options</i>		
<i>Stationary Source NOx Strategies</i>		
<i>On-and Non-Road Mobile Source Strategies</i>		
<i>Area Source Controls -- VOC</i>		
<i>Airports Strategies</i>		
<i>Additional Local Controls -- Innovative Measures Bundle</i>		
Total Reductions from New Measures in Nonattainment Area		
<i>Strategies in Upwind "Contributing" Areas(b)</i>		
Total Reductions from Potential New Measures DRAFT		

Notes:

(a) See attached priorities list being developed by the Technical Advisory Committee.

(b) The IAQC is considering possible strategies to address emissions in upwind "contributing" areas.



# Control Strategies

- Controls on Sources in Nonattainment Area
- Controls on Sources in “Upwind Contributing Areas”



# Controls within Nonattainment Area

- OTC Multipollutant Initiative (CAIR Plus)
- OTC Corridor Strategy
- OTC Small NO<sub>x</sub> Source Model Rule
- Voluntary Airport Emissions Reductions
- Innovative Measures Bundle



# Control in Upwind Contributing Areas

- IAQC is considering controls for upwind sources.
- Possible programs include:
  - Expand OTC VOC Model Rules
  - Expand NOx and VOC RACT
  - Voluntary Airport Emissions Reductions



# Uncertainties

- Point Sources. NOx SIP Call and CAIR controls not in 2009 Controlled Inventory.
- Mobile Sources. Modeling requires updated inputs.
- EPA Guidance and Attainment Modeling Results Pending.

