



Multi-Pollutant Workgroup Update



OTC Meeting
November 15, 2006



Topics Covered

- Earlier OTC actions
- The State Collaborative
- “CAIR Plus” as part of the overall “attainment planning” process
 - With new controls on other sources, what do we need from power plants above and beyond CAIR?
- Status of attainment modeling
 - What does the modeling say about CAIR Plus?
- CAIR Plus model rule package – Next steps

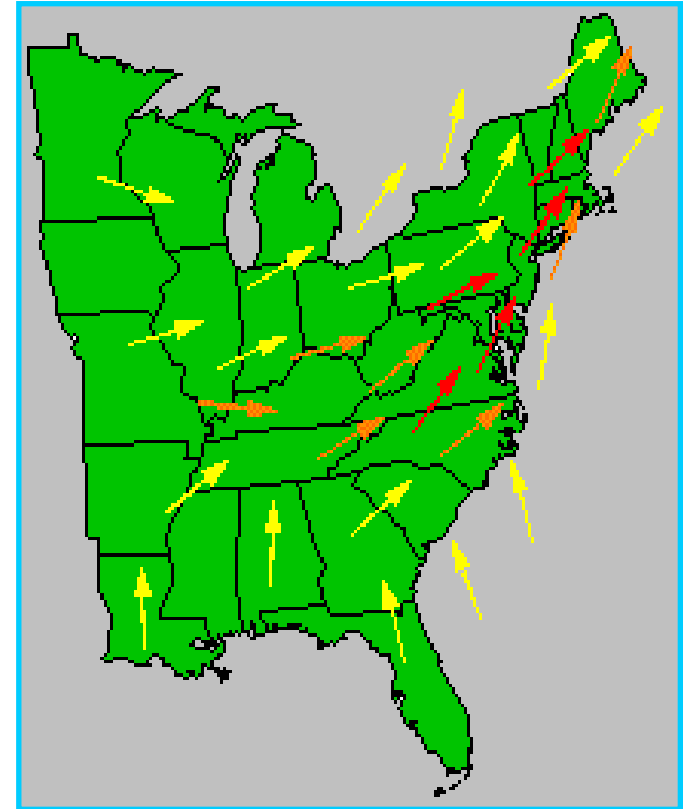




Background

Multi-Pollutant Actions

- March 4, 2003
 - Statement of Principles re: Air Pollutant Emissions
- September 24, 2003
 - Resolution on Electric Generating Unit (EGU) emissions
- January 27, 2004:
 - Multipollutant Position approved.
- November 10, 2004:
 - Charge to SAS Committee on Multipollutant Control
- June 8, 2005:
 - Resolution on program development





The June 2005 Resolution

- Key concepts:
 - Develop a regional multipollutant program
 - Work with other states outside of the Ozone Transport Region (OTR)
 - Include power plants and other sources
 - For EGUs
 - Build from EPA's Clean Air Interstate Rule (CAIR)





The State Collaborative

- Small group of OTC Commissioners began meeting with a small group of Commissioners from the Midwest in the late 2005
- The “State Collaborative” now includes about 22 states and continues to meet
- Goal is to identify, and work in partnership on, regional control programs to help address air pollution transport and issues of mutual concern
 - Ozone, fine particulate and haze





Status – State Collaborative

- Multiple meetings and calls with Commissioners
 - List of potential measure identified (more later)
- Technical work at the staff level continues
- No decision on EGUs at this time





The June 2005 Resolution

- Key concepts:
 - Develop a regional multipollutant program
 - Work with other states outside of the Ozone Transport Region
 - **Include power plants and other sources**
 - For EGUs, Build from EPA's Clean Air Interstate Rule (CAIR)





Attainment Planning

- Includes hundreds of control measures from all source categories
 - Mobile, area, non-road and stationary
 - National, regional and local
 - Some old, some new
- CAIR Plus – the last resort
 - Can we attain with existing measures and CAIR? – if not ...
 - Can we attain with existing measures, CAIR and new “non-EGU” strategies? – if not ...
 - Can we attain with existing measures, new “non-EGU” strategies and CAIR Plus?





Super-Regional Control Measures

- New measures being considered
 - First out of the blocks:
 - Consumer products (including gas cans)
 - Paints (AIM)
 - Chip reflash
 - Diesel retrofit
 - Still in the works:
 - EGUs
 - Industrial, commercial and institutional (ICI) boilers
 - Regional fuel
 - Others ...



• ECO spouts are self-venting, stop fuel flow automatically and shut automatically





New Regional and Local Measures

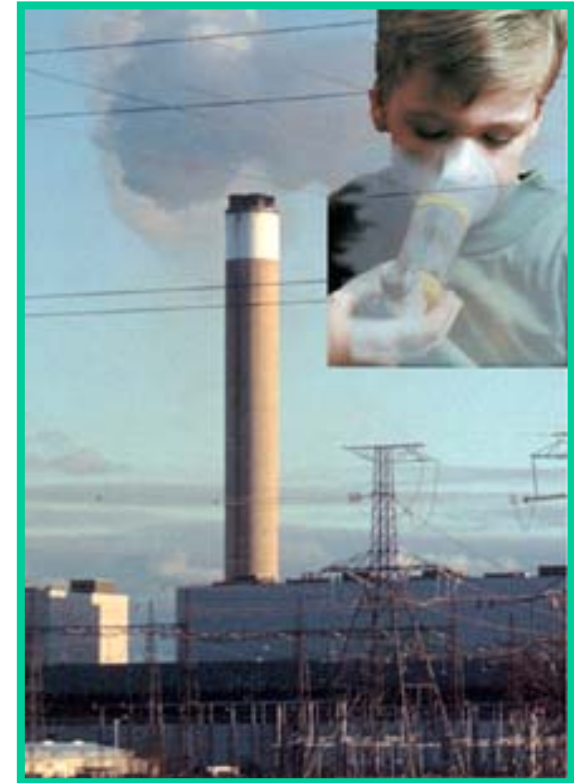


- OTR-wide
 - Asphalt production plants
 - Stage 1 vapor recovery
 - POTWs
 - Adhesives
 - Residential fuel oil
 - Cement kilns
 - Lime kilns
 - Glass furnaces
 - MWCs
 - Petroleum refineries
 - Metals production
 - Emergency generators/DG
 - High Electricity Demand Day initiative
 - Degreasing
 - Printing and graphic arts
 - Industrial surface coatings
 - Diesel fuel
- Nonattainment area strategies
 - Unique to each area
 - Washington DC as an example

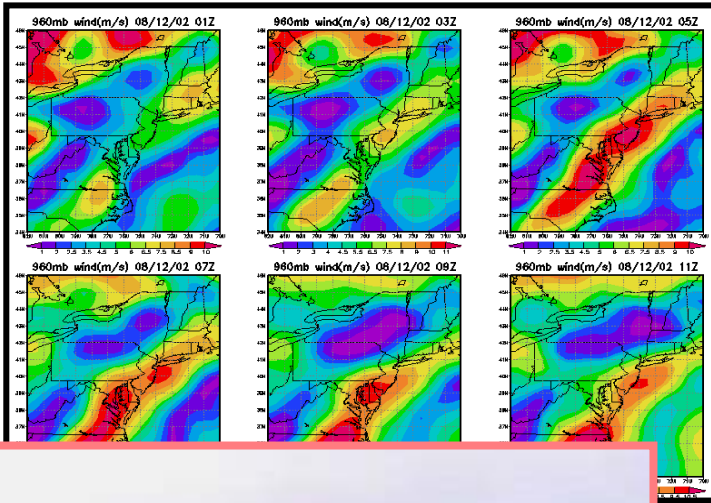


How Does CAIR Plus Fit In?

- The OTC states are moving ahead with the new local, regional and super-regional, non-EGU, control programs.
- All the low- and mid- hanging fruit is gone
 - Any control program that could generate meaningful reductions is done or in the works
- Next steps:
 - Continue to model to see if we attain with just CAIR and new, non-EGU, control measures
 - If more is needed - add CAIR Plus



What Does the Modeling Say?



- Ozone
 - Presented earlier today
 - OTB/OTW measures continue to significantly reduce ozone by 2009
 - New measures help, but still don't solve problems at most stubborn monitors
 - The modeling is still preliminary, but good enough to help us understand that we will probably need to do more than just CAIR and the new measures for non-EGU sources
- Fine Particulate
 - Still a work in progress



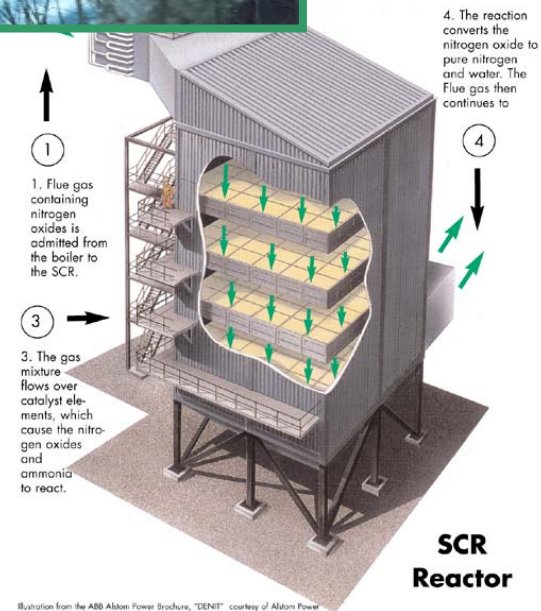
The June 2005 Resolution

- Key concepts:
 - Develop a regional multipollutant program
 - Work with other states outside of the Ozone Transport Region
 - Include power plants and other sources

– For EGUs, Build from EPA's Clean Air Interstate Rule (CAIR)

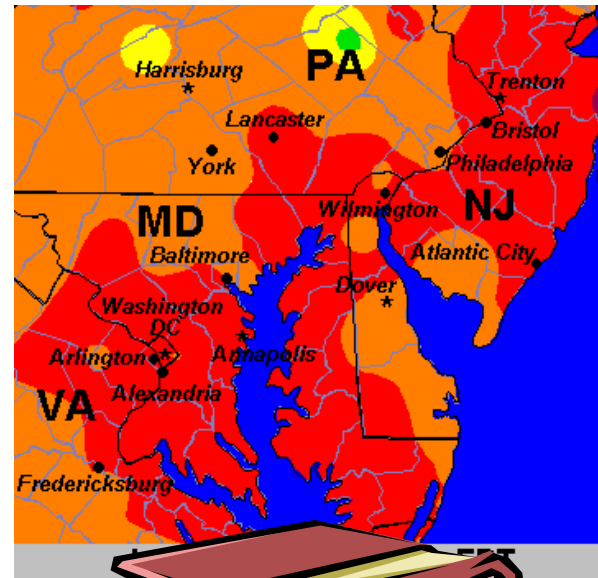


2. Ammonia is added to the flue gas.



Developing CAIR Plus

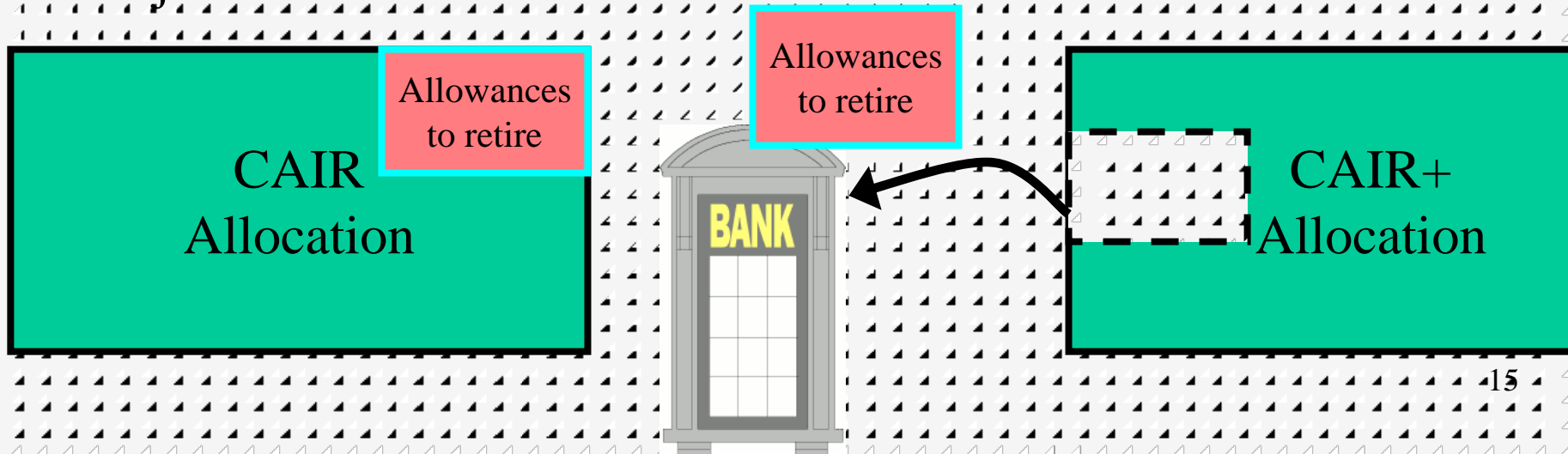
- Key themes
 - Build from EPA's CAIR Program and model rule
 - Borrow from STAPPA/ALAPCO effort
 - Meet CAIR submittal deadlines
 - If more time is needed to finalize agreement on CAIR Plus within the State Collaborative ...
 - Build in a transition to CAIR Plus later
 - Keep it simple





Basic CAIR Plus Implementation Concept

- Start from NO_x and SO₂ tons allocated per CAIR
- Develop approaches for “retiring” a percentage of this allocation to ensure attainment
- Implement CAIR Plus with adjusted allocations



The Model Rule Package

- To be used by States to implement CAIR Plus as part of CAIR SIPs or updates to CAIR SIPs
- Builds from EPA's CAIR framework
- Stakeholder input and comment in September of 2006



Wrap-Up

- State Collaborative still considering CAIR Plus
- Modeling seems to indicate that, for ozone, even after all of the other new measures are implemented that a tougher than CAIR program for NO_x will be needed
- Draft model rule package developed
 - Generally ready to move ahead with CAIR Plus regulations and SIPs if needed

