

Metropolitan Washington Air Quality Committee (MWAQC)

Technical Advisory Committee Meeting

June 9, 2006

Presented by: VA Department of Environmental Quality





Presentation Topics

Review of 2009 Modeling Results

- Ozone Transport Commission (OTC) 2009 future base case
- VADEQ 2009 future base case (Case #2)
- VADEQ 2009 future control case (Case #5)

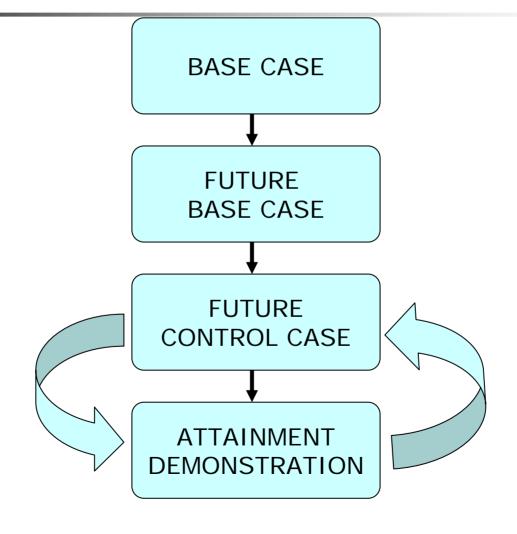
Next Steps

- Additional future control case modeling
- Weight of Evidence (WOE)

Modeling Schedule









- EPA/RPO (IPM) Utility Projections for CAIR emissions & controls
- Does not include all Virginia CAIR controls
- Does not include OTC VOC controls in Northern VA



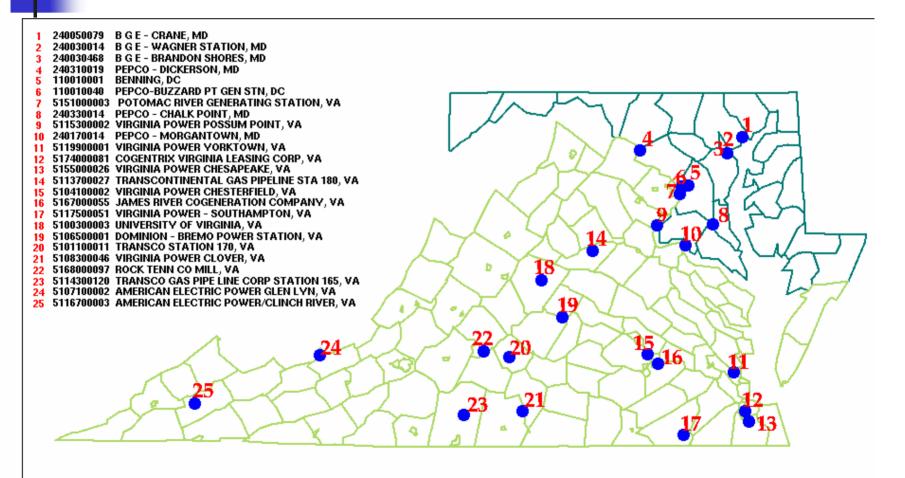
- Uses <u>initial</u> estimates from MDE for CPR & VA/DC CAIR emission reduction estimates
- Includes SIP Call Phase II reductions in VA
- Includes OTC VOC controls in Northern VA
 - Rule 4-42, OTC Portable Fuel Containers
 - Rule 4-47, OTC Solvent Metal Cleaning
 - Rule 4-48, OTC Mobile Equipment Repair/Refinishing
 - Rule 4-49, OTC AIM
 - Rule 4-50, OTC Consumer Products



- Uses VADEQ Case #2 assumptions with the following exceptions:
 - MD CPR estimates updated to reflect the precise numbers used in the CPR modeling conducted by University of Maryland
 - 1 ton per day NO_x increase from original estimates
 - VADEQ updated emissions for Mirant Potomac River and Dominion Possum Point to include "no trading" estimates
 - Results in a additional 11 tons per day reduction in NO_X
 - These reductions come from the VA CAIR rule which contains a "no trade" clause for nonattainment areas



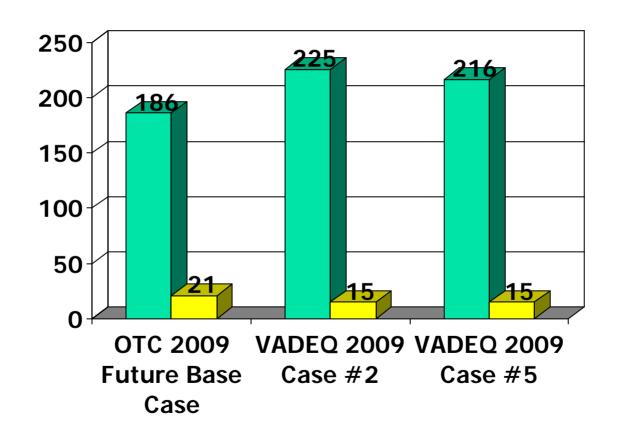
Location of Facilities



Summary of Emissions



(Tons Per Day)

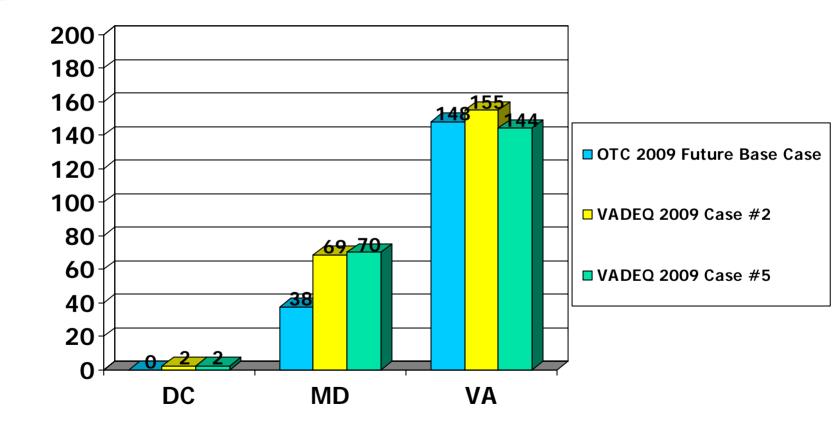




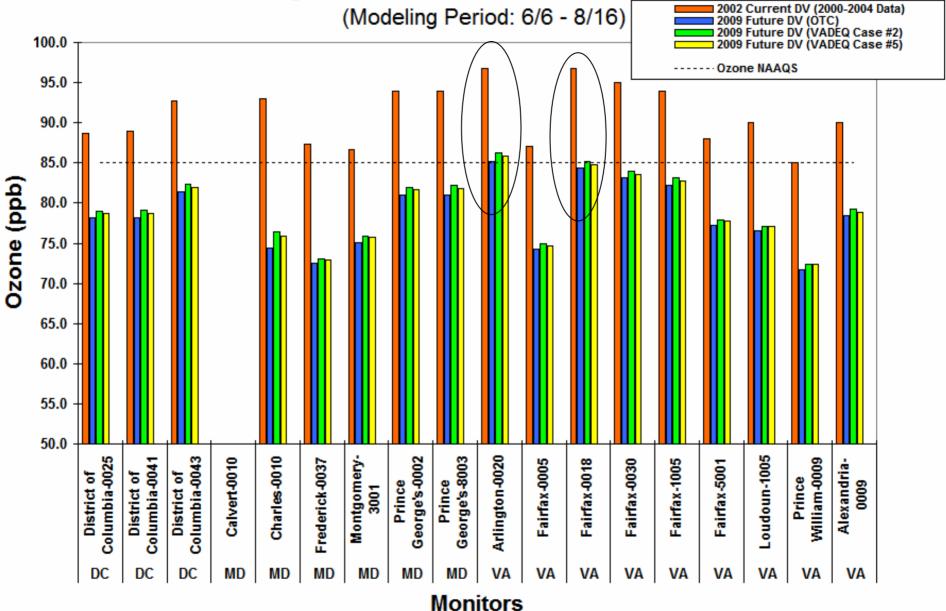
Summary of Emissions



(Tons Per Day of NOx)



Design Values for Future Case Scenarios



Note: Calvert County monitor has insufficient data collection for design value calculations.





Monitored values above 85 ppb

- OTC 2009 future base case @ 85.6 ppb (Arlington)
- VADEQ 2009 future base case (Case #2) @ 86.3 ppb (Arlington) & 85.2 ppb (Fairfax)
- VADEQ 2009 future control case (Case #5)
 @ 85.9 ppb (Arlington)





Additional Future Control Case Modeling

- Identify & quantify additional control emissions
 - Awaiting decision from Interstate Air Quality Council (IAQC) on control measures to be modeled
- Run control case model to test these control strategies
- Perform attainment test (using Relative Reduction Factors)
- Repeat process as needed to demonstrates attainment







- Supporting information that accompanies model attainment demonstration
- Provides additional documentation that the area will (or will not) attain NAAQS





Weight of Evidence (WOE)

WOE techniques include:

- Air quality and emissions trends
- Meteorology analysis
- Other modeling analyses

Need to develop D.C. specific list

 Attainment modeling call scheduled for June 15 at 3 pm to discuss WOE

Attainment Modeling Schedule



