

# Strategies for Attaining the 2008 Ozone NAAQS

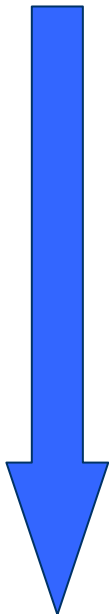
Michael G. Dowd  
Air Division Director, VDEQ  
804-698-4284  
[mgdowd@deq.virginia.gov](mailto:mgdowd@deq.virginia.gov)



# Topics to Cover....

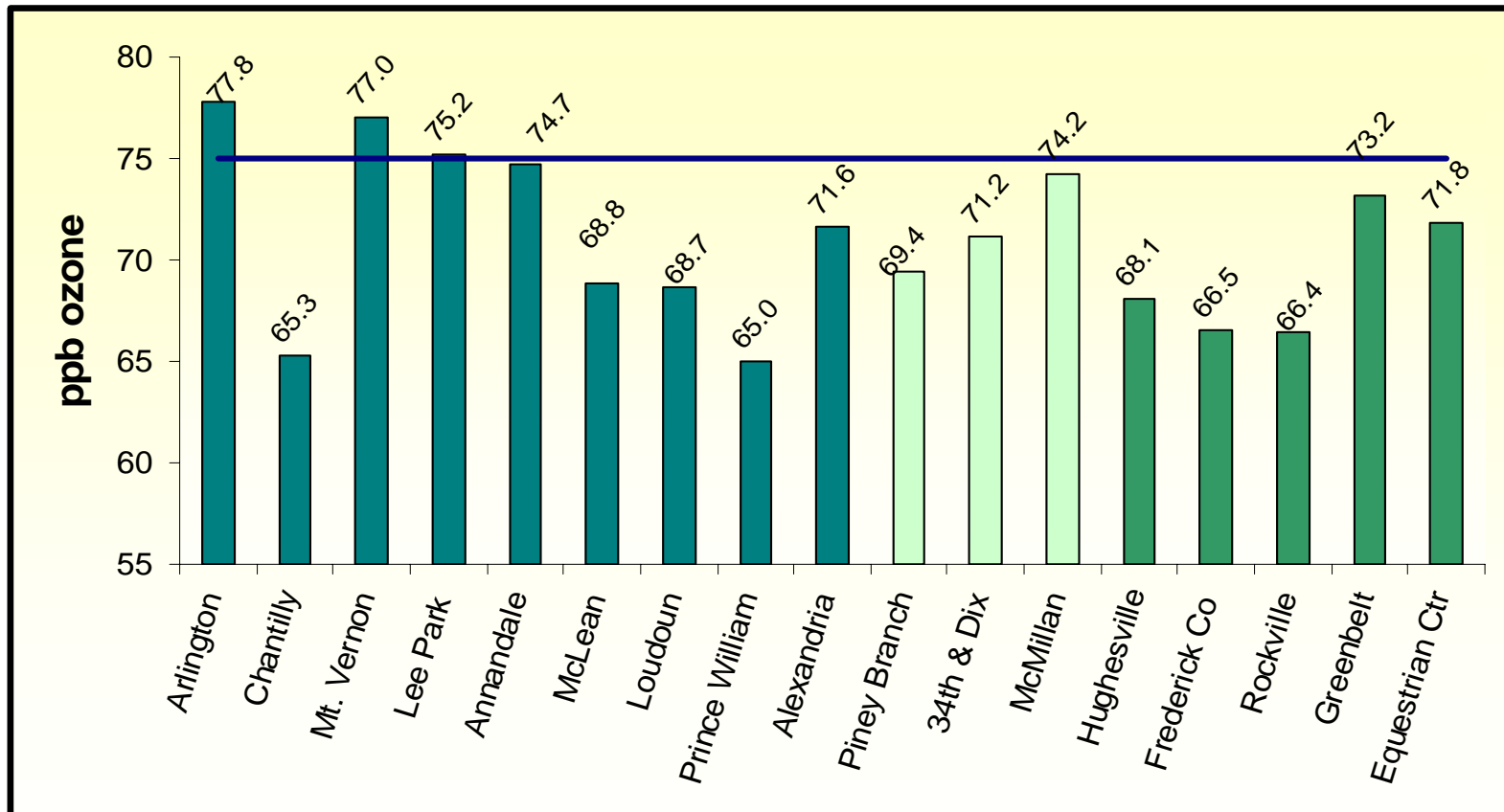
- Timeline for the 2008 Ozone NAAQS
- What does the modeling predict?
- Current control measures with future benefit
- Potential control measures under consideration

## ***2008 Ozone Standard Planning Timeline***



- **March 12, 2008: 2008 Ozone Standard Signed**
- **March 12, 2009: Governor's recommendations regarding designations and classifications due to EPA Administrator**
- **March 12, 2010: EPA publishes area designations and classifications (may be delayed to March 12, 2011 if additional data is needed)**
- **March 12, 2013: For areas not attaining the 2008 standard, attainment plans are due to EPA**
- **2013-2033: Attainment dates, depending on the severity of the air quality problems**

# Metro DC Best and Final Projected 2018 Ozone Design Values (ASIP)



# *Non-Credited SIP Measures & Other Voluntary Programs*



- HEDD (MD & DC)
- Expanded Tree Canopy
- Wind Power Purchases
- Remote Sensing (VA)
- Energy Efficiency Programs
- On Going Diesel Retrofits
- Purchase of Hybrids
- Other....

# Ongoing Strategies

- VA CAIR Caps for NO<sub>x</sub> (2009)
- MD Healthy Air Act (2009)
- Area Source Controls for Portable Fuel Containers, Consumer Products, & Industrial Adhesives
- CAL LEV II (MD & DC)
- Conversion of the Bremo Bluff Power Plant to natural gas
- GACT (Generally Achievable Control Technologies)



# *Strategies for Review/Future Implementation*



- **Distributed Generation & Emergency Generation Regulation (MD, VA & DC)**
- **Use of New OBD Testing Technology for the I&M Program (VA)**
- **Ozone Transport Commission Future Control Strategies....**

# OTC Strategies in Progress: ICI Boilers

- Institutional, Commercial, and Industrial Boilers (non-Utility Boilers)
- Requesting EPA create national control program. OTC working with LADCO (Midwest).
- NO<sub>x</sub> Reductions
  - Smaller boilers: combustion tuning, LNB, FGR
  - Larger boilers: OFA, SNCR, SCR
- SO<sub>2</sub> Reductions
  - Smaller boilers: Low S fuels, coal blending
  - Larger boilers: FGD, fuel desulphurization
- OTC & LADCO ICI Boiler Emissions in 2002:
  - Nearly 300,000 tpy NO<sub>x</sub>
  - Nearly 600,000 tpy SO<sub>2</sub>



# OTC Strategies in Progress: VOC Reductions

- **Auto Refinishing Model Rule**
- **Phase II for Architectural and Industrial Maintenance (AIM) Coatings**
- **Reactivity based AIM Coating Requirements**
- **Controlled use of 2-cycle Engines**
- **Further (Phase III?) Consumer Products Controls**
- **Further Solvent Degreasing Controls**

# OTC Strategies in Progress: Upwind Benefits

- Refinery Heaters NOx Controls
- Lightering for Petroleum Products
- Low S Distillate Fuel for Ships/Ocean Going Vessels



# Questions?

