Will the Washington Region Meet the 8-hour ozone standard in 2009?

> Joan Rohlfs, Chief, AQ Planning MWCOG June 28, 2006

Air Quality Plan (SIP)

- Must demonstrate that the Washington region will meet the public health standard for ozone by 2009
- > What evidence does EPA require?
 - Photochemical modeling
 - Weight of evidence -

1-hour SIP: 2005

> CAA of 1990 and EPA required:

- 3% per year reduction in emissions from 1990-2005
- Attainment modeling demonstration
- Weight of evidence (optional)

Regional Growth, 1990-2005

- > Household population grew 28%
- > Vehicle Miles Traveled grew 25%
- > Ozone Design Value dropped 27%



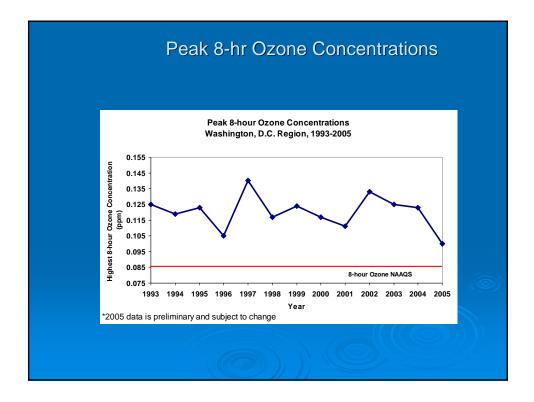
New Ozone Standard ("8-hr")

> Attainment Demonstration must show the control strategy achieves design values below 85 ppb by Sept. 2009

> EPA modeling for the Clean Air Interstate Rule (CAIR) shows the Washington region not meeting the 2010 deadline for ozone.

8-hour Ozone SIP

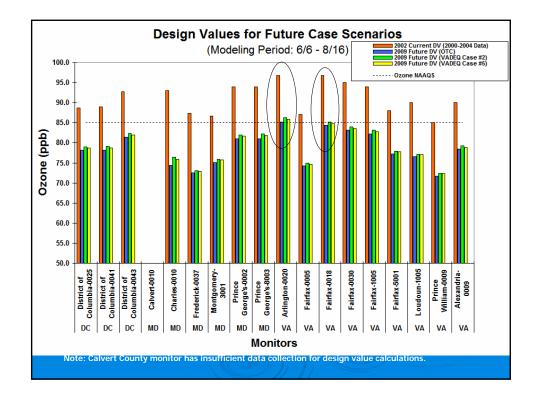
- Attainment demonstration modeling: range is important (82 – 87 ppb)
- > All reasonably available control measures must be adopted and in force by 2009
- > Other statistical evidence ("weight of evidence") based on air quality data will be considered



Broad Regional Scale Modeling

- > Ozone Transport Commission (OTC) is leading attainment modeling for 13 member states. OTC is a Regional Planning Organization (RPO)
- Virginia Dept. Environmental Quality (DEQ) is leading Washington region's attainment modeling demonstration
- Modeling done on much larger geographic scale than the one-hour ozone SIP

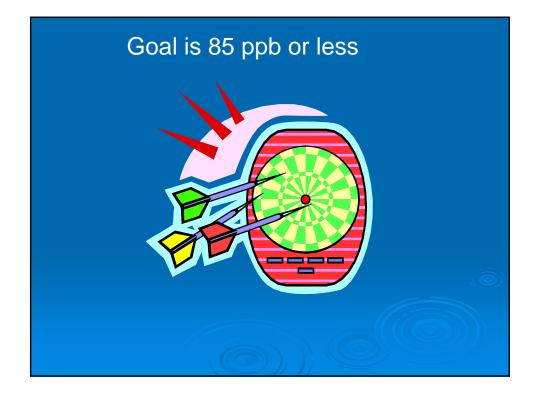




Design Values for Future Case Scenarios > Monitored values above 85 ppb

• OTC 2009 future base case @ 85.6 ppb (Arlington)

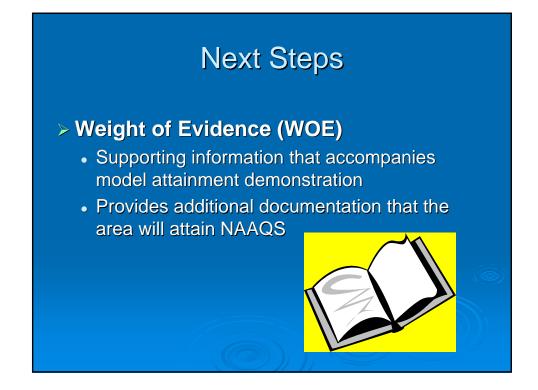
- VADEQ 2009 future base case (Case #2) @ 86.3 ppb (Arlington) & 85.2 ppb (Fairfax)
- VADEQ 2009 future control case (Case #5) @ 85.9 ppb (Arlington)

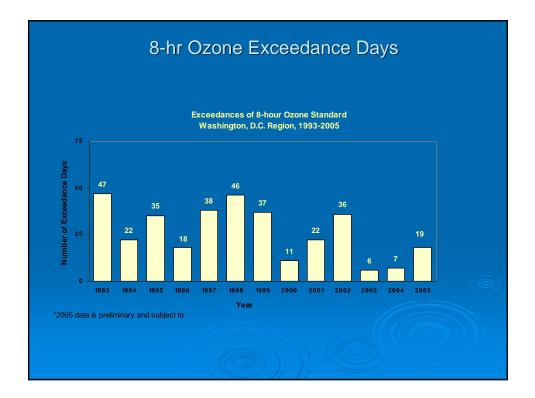


Next Steps

> 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 demonstrate attainment





Preliminary Analysis

- "On the Books" and "On the Way" controls reduce emissions >21%
- More Reductions are needed to meet 8 hr standard.





Prelude to Decision-Making

June 28: Work Session
Preparation for Approving Control Strategy

July 17: Interstate Air Quality Council
States agree to adopt regional OTC measures

□ July 26: MWAQC Meeting

 MWAQC decides to adopt regional measures and local voluntary measures ("bundle") as AQ plan's "CONTROL STRATEGY"