

Developing a Regional Action Plan

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State and Local Government Initiatives to Improve Air Quality and Protect Public Health

Metropolitan Washington Air Quality Committee

March 4, 2015

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Air Quality Challenges and Opportunities

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Standard	NAAQS Date	Effective Designation Date/Classification	SIP Status	Attainment Status
1hr Ozone (125 ppb)	1979	January 6, 1992/Serious, March 25, 2003/Severe	Submitted 2004	Data shows compliance since 2005 (EPA Clean Data Determination - August 25, 2008)
8hr Ozone (84 ppb)	1997	June 15, 2004/Moderate	Submitted 2007	Data shows compliance since 2009 (EPA Clean Data Determination - March 29, 2012)
PM2.5 (15 ug/m3)	1997	April 5, 2005/ not applicable	Submitted 2008	Data shows compliance since 2005 (EPA Attainment Designation – November 5, 2014)
8hr Ozone (75 ppb)	2008	July 20, 2012/Marginal	No SIP required	Attainment deadline – July 20, 2015 (based on 2012-14 design value)
<i>Proposed New 8hr Ozone Standard</i>	<i>2015</i>	<i>Expected October 1, 2017</i>	<i>TBD</i>	<i>Attainment deadline – 2020-2023 (depending on nonattainment designation)</i>

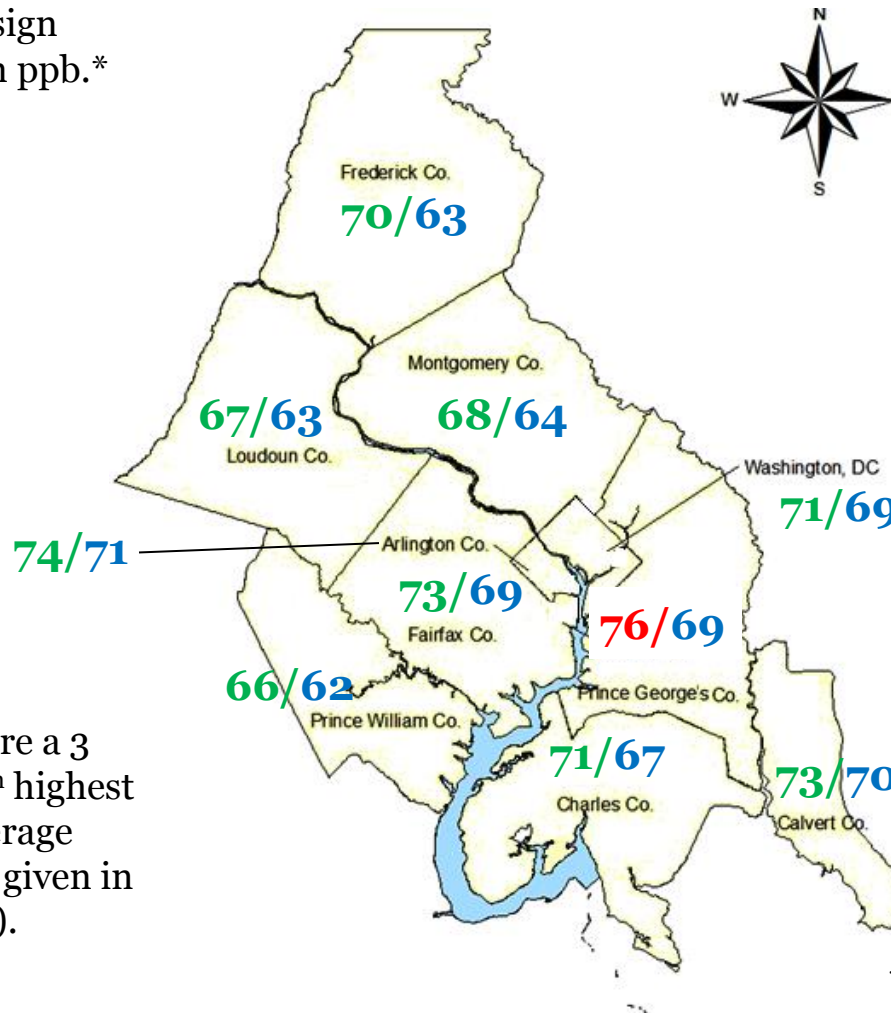
Where Are We Now?

Washington, DC-MD-VA Ozone Nonattainment Area

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Green = Ozone Design Values (2012-2014) in ppb.*

Blue = 4th Highest 8-Hour Ozone Concentration (2014) in ppb.*



Draft Design Values are a 3 year average of the 4th highest daily max. 8-hour average ozone concentrations given in parts per billion (ppb).

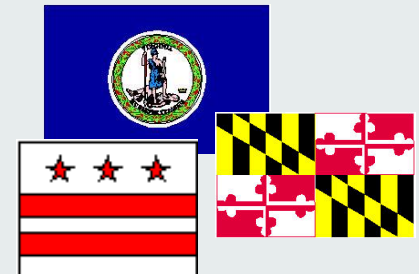
*Draft data as of 03/04/2015

2008 Ozone Standard = 75 ppb

What Can We Do – Potential Measures

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- “No-regret” or common sense early actions:
 - Low-cost, high-benefit measures
 - Co-benefits for GHG reduction, bill savings, resilience, public health
- Potential Measures:
 - Item 6a: State measures being pursued or under consideration
 - Item 6b: Local measures for implementation or expansion
- Reduce NO_x and/or VOC emissions from:
 - Point Sources
 - Area Sources
 - Mobile Sources (on and off-road)



State Point Source Measures

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- Power Plant Controls Updates *(large NOx reductions)*
- NOx Reasonably Available Control Technology (RACT) Updates *(large NOx reductions)*
- OTC Natural Gas Ultra Low NOx Burners *(large NOx reductions)*
- Energy Efficiency and Renewable Energy Programs *(small NOx reductions)*



Wet Scrubber Installed at Morgantown Coal Plant - 2009

State Area Source Measures

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- **Distributed Generators**
 - Demand Response Emissions Controls *(large NOx reductions on peak days)*
 - Data Collection & Emissions Reporting *(large NOx reductions on peak days)*
- **Ozone Transport Commission (OTC) Model Rules**
 - Architectural and Industrial Maintenance Coatings *(large VOC reductions)*
 - Consumer Products Update *(large VOC reductions)*
 - Mobile Equipment Repair/Auto Body Refinishing *(large VOC reductions)*
 - Solvent Degreasing *(small VOC reductions)*
- **Ultra Low Sulfur Fuel Oil** *(small NOx reductions)*

State Mobile Source Measures

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- Diesel Inspection Programs *(medium NOx and VOC reductions)*
- OTC Off-road Vehicle Idling Reduction *(medium to large NOx reductions)*
- OTC Aftermarket Catalyst Program *(large NOx reductions)*
- EPA SmartWay Partnership Program *(medium to large NOx reductions)*
- California Low Emission Vehicle Standards *(small NOx reductions)*
- Electric & Alternative Fuel Vehicles *(small NOx reductions)*
- Fleet Retrofits and Repowers *(small to medium NOx reductions)*

Local Point Source Measures

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- Green Power Purchasing
- High Performance Buildings
- District Energy and Microgrids
- Urban Heat Island Mitigation



Local Mobile Source Measures

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- Eco-Driving
- Idling and Emissions Enforcement
- Bicycle and Pedestrian Programs
- Electric and Alternative Fuel Vehicles
- Parking Management



Next Steps

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- Consider an MWAQC resolution calling for strengthened early action at the state, local and regional levels to reduce ozone pollution
- Support and technical assistance for implementation
- Evaluate costs and benefits
 - Multi-Sector Working Group - *What We Can Do* report - to evaluate measures, with direct and co-benefits for reducing CO₂ emissions

Questions?

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