

Region 3 Plan Summary
Maryland Early Action Compact (EAC) Plan for Washington County

Title: Attainment Demonstration for the Washington County, Maryland Early Action Compact (EAC) Area.

Federal Register Dates: May 17, 2005, 70 FR 28256 (Proposed rule); August 17, 2005, 70 FR 48283 (Final rule).

EPA Effective date: September 16, 2005

State Submittal Dates: December 20, 2004 and February 28, 2005

Affected Areas: Washington County

Summary of the Plan: On December 20, 2004, the MDE submitted a revision to its SIP. This revision consists of an Early Action Plan (EAP) for the Washington County Ozone EAC Area. On February 28, 2005, the State supplemented its December 20, 2004 submittal by providing a revised modeling demonstration.

Washington County is located in west-central Maryland, bounded by Pennsylvania, Virginia and West Virginia. The county extends east to South Mountain, south to the merging of the Shenandoah and Potomac Rivers, north to the Pennsylvania border and west to Sideling Hill Creek. It is bordered by the Appalachian Highlands and situated at the center of the Cumberland Valley with low rolling hills, cultivated valleys, woodlands and moderate elevations of 500-800 feet above sea level. Hagerstown, the county seat, is located in the center of the county, approximately 75 miles west of Washington, DC, and Baltimore. The Area's monitor is located in Hagerstown at the Maryland Correctional Institute. The entire state of Maryland is part of the Northeast Ozone Transport Region (OTR). As part of the OTR, Washington County is already subject to many air control requirements.

Maryland developed an attainment demonstration supported by an ozone photochemical modeling study for the Washington County EAC Area. The attainment demonstration identifies a set of measures that will result in emission reductions and provides analyses that predict that the measures will result in ambient air quality concentrations that meet the 8-hour ozone standard in the Washington County EAC Area. The modeling results predict the maximum 2007 8-hour ozone design value for this area to be 80.8 ppb, which is less than what is needed (≤ 84 ppb) to show modeled attainment of the 8-hour ozone NAAQS. The revised modeling demonstration shows that the Washington County EAC area will attain the 8-hour ozone NAAQS by December 31, 2007, and maintain that standard until 2012.

Control Measures/Regulations Included As Part of the Plan: The Washington County, Maryland EAP provided a list of all the control measures for the Maryland County EAC Area. They are grouped into two main categories: State and local control measures and Federal control

measures. Maryland has submitted a suite of voluntary emission reduction measures that will provide emission reductions in the Washington County EAC Area. Many of the measures were not included in the attainment demonstration for the Area, however, they provide significant additional air quality benefits to the Area. In addition to the local strategies, several state and federal actions have or will produce substantial ozone precursor emissions reductions both inside and outside of the local EAC area. These reductions are aimed at reducing local emissions and transport of pollution into the area. Maryland also submitted contingency measures which could be implemented in response to a shortfall in anticipated reductions. All of the measures provided in the EAP are summarized in Table 1.

Table 1. Summary of Control Measures for the Washington County Area

Control Measure Category	Control Measure Description	Emission Reductions (kilograms per day)		Measure Included in Attainment Demonstration
		VOC	NOx	
Local Initiatives	Ride-matching/Commuter Connection	0.33	0.31	No
	Park and Ride Lots	1.77	1.80	No
	Hagerstown Telework Center/Commuting	3.06	3.34	No
	Air Quality Action Days	NQ	NQ	No
	Clean Air Partners/Public Education/Outreach	NQ	NQ	No
	Transit Programs	7.38	6.35	No
	E-Gov/E-commerce Enhancements	1.59	0.31	No
	Enterprise Zone Jobs Tax Incentive	1.59	1.85	No
	Growth Management Program	13.24	15.42	No
	Signal System Enhancements	10.22	3.08	No
	Incident Management	17.59	7.99	No
	On-road vehicle replacement	1.48	13.61	No
State Measures	Vehicle Emissions Inspection Program-VEIP	480.81	562.46	No
	Ozone Transport Commission (OTC) Consumer Products	108.86	NA	Yes
	OTC Architectural/Industrial Maintenance Coatings (AIM)	92.18	NA	Yes
	OTC Portable Fuel Container	54.43	NA	No

	Low Emissions Traffic Paint	26.28	NA	Yes
	Off-Road Vehicle Replacement	NQ	NQ	No
	RACT Controls (post 1999)	0.00	1312.31	No
Federal Measures (Area, Mobile, and Non-road)	On-road Motor Vehicle Standards	861.86	3093.51	Yes
	Small Gasoline Engine Standards	NQ	NQ	No
	Gasoline Marine Engine Standards	NQ	NQ	No
	Large Gasoline Engine Standards	NQ	NQ	No
	Non-road Diesel Engine Standards	NQ	NQ	No
Contingency Measures	Government MOU-Alternative Work Schedules	4.57	4.24	
	Low RVP or RFG fuel options	208.65 to 444.52	18.14 to 27.22	
	Diesel vehicle emission control	3.24 to 6.48	102.6 to 205.20	
	Gas Can Replacement	4.10	NA	
	Lawnmower Replacement	1.18	0.03	
	Incident Management/Dynamic Message Signs	19.86	8.97	

Note: NA - not applicable; NQ - not quantified.

Maintenance for Growth: The EAP also contains components to ensure maintenance of the 8-hour ozone standard through 2012, five years beyond the 2007 attainment date. The Washington County EAC area has developed an emissions inventory for the year 2012, as well as a continuing planning process to address this essential part of the plan. Due to the emission control measures identified in the EAP, the emissions inventory predicted an overall reduction in emissions through 2012. From 1999 to 2007, emissions of VOCs are estimated to decline by 8.4 percent, and emissions of NOX are estimated to be reduced by 15.7 percent. By 2012, emissions are predicted to be 4.9 percent less than those modeled in 2007 for VOCs, and 21.3 percent less than those modeled in 2007 for NOX. Using air quality models to anticipate the impact of growth, as well as the Federal, State-assisted, and locally-implemented measures to reduce emissions, the State of Maryland has projected the Area will be in attainment of the 8-hour ozone standard in 2007, and will remain in attainment through 2012.

The maintenance for growth portion of the compact includes the continuous planning process that provides for a review to ensure that the adopted emission reduction strategies are adequate to address growth in emissions. The continuous planning process will be conducted concurrently with the tracking and reporting process for the EAP. In addition, the Maryland

compact requires that if the continuous planning process identifies the need to add emission reduction strategies after the plan is incorporated into the SIP, the local area and State will initiate the process to include the new measures in the Maryland SIP.

In addition, the EAC signatories and implementing agencies will review all EAC activities and report on these results in their semi-annual reports, beginning in June 2006. The semi-annual reports will track and document, at a minimum, control strategy implementation and results, monitoring data and future plans. Furthermore, the local area commits to continue to submit periodic updates in the form of semi-annual status reports to MDE and EPA on the implementation status and results of the local control program with sufficient details to make program sufficiency determinations.

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