

8.0 1997 PM_{2.5} NONATTAINMENT AREA PLAN COMMITMENTS

Achieving the results shown in this Plan requires a commitment to implement the regulatory measures upon which the Plan is based. The states and the District of Columbia are taking action to implement regional measures to reduce emissions of PM_{2.5} and PM_{2.5} precursors. Tables 8-1 through 8-3 provide information on the implementation of each measure by Maryland, Virginia, and the District of Columbia.

Commitments for regulations required by the 40 CFR Part 51 are shown in Table 8-4.

8.1 Schedules of Adopted Control Measures

Table 8-1
District of Columbia Schedule of Adopted Control Measures
Washington Nonattainment Area

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
	<i>Point Source Controls</i>			
5.1.1	RACT and Regional Transport Requirements	Federal Regulation	20 DCMR ^a Sec. 805 20 DCMR Chapter 10 20 DCMR Chapter 11	11/19/93 1/20/2000 No later than 1/1/2009
5.1.2	Opacity Regulations	Federal Regulation	20 DCMR Sec. 606	3/15/85
	<i>Area Source Controls</i>			
5.2.1	Seasonal Open Burning Restrictions	State Regulation	20 DCMR Sec. 604	2/1/85
	<i>Nonroad Source Controls</i>			
5.3.1	EPA Nonroad Gasoline Engines Rule	Federal Regulation	40 CFR Parts 90, 91	12/3/96
5.3.2	EPA Nonroad Diesel Engines Rule	Federal Regulation	40 CFR Part 9 et al.	Model Year 2000-2008 depending on engine size

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
5.3.3	EPA Nonroad Spark-Ignition Marine Engine Rule	Federal Regulation	40 CFR Parts 89, 90, 91	Model Year 1998
5.3.4	EPA Large Spark-Ignition Engines Rule	Federal Regulation	40 CFR Parts 89, 90, 91, 94, 1048, 1051, 1065, 1068	11/8/2002
5.3.5	Emissions Controls for Locomotives	Federal Regulation	63 FR 18998	6/15/98
	<i>On-Road Measures</i>			
5.4.1	High-Tech Inspections and Maintenance	Federal Regulation	18 DCMR Chapters 4, 6, 7, 10, 11; 26 DCMR Chapter 26	4/30/99
5.4.2	Federal Tier I Vehicle Standards and new Car Evaporative Standards	Federal Regulation	40 CFR Part 86	Model Year 1994-1996; Evap Stds. 1996
5.4.3	National Low Emissions Vehicle Program	Federal Regulation	20 DCMR, Sec. 915	1/20/2000
5.4.4	Tier 2 Motor Vehicle Emission Standards	Federal Regulation	65 FR 6698	2/10/2000
5.4.5	Heavy-Duty Diesel Engine Rule	Federal Regulation	62 FR 54694	12/22/97

^aDistrict of Columbia Municipal Regulations.

**Table 8-2
Maryland Schedule of Adopted Control Measures
Washington Nonattainment Area**

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
	<i>Point Source Controls</i>			
5.1.1	NO _x Phase II Controls	Federal Regulation	26.11.27 & .28 26.11.29 & 30	10/18/99
5.1.1	Regional Transport Requirements	Federal Regulation	26.11.29.08 26.11.27	5/10/93 No later than 1/1/2009
5.1.2	Opacity Regulations	Federal Regulation	26.11.01.10 26.11.01.11 26.11.06.02 26.11.07.05 26.11.08.04 26.11.08.08 26.11.08.08-1 26.11.09.05 26.11.10.03 26.11.10.04 26.11.12.04 26.11.18.03 26.11.18.06 26.11.20.01 26.11.25.03	7/22/91 7/22/91 7/18/80 1/2/80 5/28/68 11/9/90 4/17/2000 5/28/68 5/28/68 5/28/68 6/8/81 5/28/68 2/10/84 11/19/83 9/24/84
	<i>Area Source Controls</i>			
5.2.1	Seasonal Open Burning Restrictions	State Regulation	26.11.07	5/22/95
	<i>Nonroad Source Controls</i>			
5.3.1	EPA Nonroad Gasoline Engines Rule	Federal Regulation	40 CFR parts 90, 91	12/3/96
5.3.2	EPA Nonroad Diesel Engines Rule	Federal Regulation	40 CFR Part 9 et al.	Model Year 2000-2008 depending on engine size
5.3.3	EPA Nonroad Spark-Ignition Marine Engine Rule	Federal Regulation	40 CFR Parts 89, 90, 91	Model Year 1998

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
5.3.4	EPA Large Spark-Ignition Engines Rule	Federal Regulation	40 CFR Parts 89, 90, 91, 94, 1048, 1051, 1065, 1068	11/8/2002
5.3.5	Emissions Controls for Locomotives	Federal Regulation	63 FR 18998	6/15/98
	<i>On-Road Source Controls</i>			
5.4.1	High-Tech Inspections and Maintenance	Federal Regulation	11.14.08	1/2/95, 1/1/2000
5.4.2	Federal Tier I Vehicle Standards and new Car Evaporative Standards	Federal Regulation	40 CFR part 86	Model Year 1994-1996; Evap Stds. 1996
5.4.3	National Low Emissions Vehicle Program	Federal Regulation	26.11.20.04	3/22/99
5.4.4	Tier 2 Motor Vehicle Emission Standards	Federal Regulation	65 FR 6698	2/10/2000
5.4.5	Heavy-Duty Diesel Engine Rule	Federal Regulation	63 FR 54694	12/22/97

Table 8-3
Virginia Schedule of Adopted Control Measures
Washington Nonattainment Area

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
	<i>Point Source Controls</i>			
5.1.1	State NO _x RACT Requirements	Federal Regulation	9 VAC 5-40-310, 9 VAC 5-40-311	1/1/93
5.1.1	RACT and Regional Transport Requirements	Federal Regulation	By permit or compliance agreement 9 VAC 5 Chapter 130	6/25/98 No later than 1/1/ 2009
5.1.2	Existing Stationary Sources, Part II "Emission Standards" Article 1 "Visible Emissions and Fugitive Dust/Emissions (Rule 4-1)"	Federal Regulation	9 VAC 5 Chapter 40	3/17/72 Amended: 2/1/2003
5.1.2	New and Modified Stationary Sources Part II "Emission Standards" Article 1 "Visible Emissions and Fugitive Dust/Emissions (Rule 5-1)"	Federal Regulation	9 VAC 5 Chapter 50	8/9/75 Amended: 2/1/2003
	<i>Area Source Controls</i>			
5.2.1	Seasonal Open Burning Restrictions	State Regulation	9 VAC 5-40-5630	4/1/96
	<i>Nonroad Source Controls</i>			
5.3.1	EPA Nonroad Gasoline Engines Rule	Federal Regulation	40 CFR parts 90, 91	12/3/96
5.3.2	EPA Nonroad Diesel Engines Rule	Federal Regulation	40 CFR part 9 et al.	Model Year 2000-2008 depending on engine size
5.3.3	EPA Nonroad Spark-Ignition Marine Engine Rule	Federal Regulation	40 CFR Parts 89, 90, 91	Model Year 1998
5.3.4	EPA Large Spark-Ignition	Federal	40 CFR Parts 89,	11/8/2002

Ref. No.	Control Measure	Mandate	Regulation Number	Effective Date
	Engines Rule	Regulation	90, 91, 94, 1048, 1051, 1065, 1068	
5.3.5	Emissions Controls for Locomotives	Federal Regulation	63 FR 18998	6/15/98
	<i>On-Road Measures</i>			
5.4.1	High-Tech Inspection and Maintenance	Federal Regulation	9 VAC 5 Chapter 91	4/2/97
5.4.2	Federal Tier I Vehicle Standards and new Car Evaporative Standards	Federal Regulation	40 CFR Part 86	Model Year 1994-1996; Evap Stds. 1996
5.4.3	National Low Emissions Vehicle Program	Federal Regulation	9 VAC 5-200	4/14/99
5.4.4	Tier 2 Motor Vehicle Emission Standards	Federal Regulation	65 FR 6698	2/10/2000
5.4.5	Heavy-Duty Diesel Engine Rule	Federal Regulation	63 FR 54694	12/22/97

8.2 New Source Review Permitting

Section 173 of the Clean Air Act Amendments required the states in PM_{2.5} nonattainment areas to adopt major stationary source permitting thresholds of 100 tons/year for any regulated New Source Review (NSR) pollutant, including PM_{2.5}. Maryland, Virginia, and the District of Columbia adopted these measures, listed in Table 8-4, on the schedule shown.

Major modification thresholds in PM_{2.5} nonattainment areas are for net significant emissions increases of more than 10 tons/year PM_{2.5} or 15 tons/year PM₁₀ from any existing major facility.

Additional requirements for NSR permit including the generation or purchase of PM_{2.5} offsets, at a ratio of 1 to 1, and the implementation of Lowest Achievable Emissions Rate (LAER) for new or modified units.

**Table 8-4
Stationary Source Permitting Revisions
Washington Nonattainment Area**

State	Control Measure	Regulation Number	Effective Date
Maryland	Control of NO _x Emissions for Major Stationary Sources	COMAR 09.08	Adoption: 10/03
Virginia	Permits for Major Stationary Sources and Major Modifications Locating in Nonattainment Areas or the Ozone Transport Region.	9 VAC 5-80 Part II Article 9	PM offset requirement adopted 2/27/02; effective 9/1/06. PM PM _{2.5} significance level adopted 6/21/06, effective 9/1/06.
District of Columbia	Major Source Thresholds	20 DCMR Sections 715.2,715.3,715.4	8/29/03

8.3 RACT Applicability

40 CFR 51.1010 notes that for each PM_{2.5} nonattainment area a SIP revision demonstrating that all reasonably available control measures (RACM), including RACT for stationary sources, necessary to demonstrate attainment as expeditiously as practicable have been adopted. The section of the implementation rule goes on to state that potential measures that are reasonably available considering technical and economic feasibility must be adopted as RACM if, considered collectively, they would advance the attainment date by one year or more. As discussed in Section 7.2.1, the states determined that there are no additional control measures that could be adopted by January 1, 2008. Further, existing measures, and those planned for implementation by 2009, are expected to enable the region to continue to demonstrate compliance with the PM_{2.5} NAAQS (1997) through the 2009 attainment date. As such, no further actions on RACT is warranted.

8.4 Revision of New Source Review (NSR) Regulations

In the near future, EPA intends to promulgate further PM_{2.5} nonattainment requirements, including requirements for precursor emissions, controls, and offsets. When these regulations are finalized, state agencies will adopt these changes into their respective state implementation plans.