

Region 3 Plan Summary
Maryland Portion of the Philadelphia-Wilmington -Trenton Ozone Nonattainment Area

Title: 15 % Rate of Progress (ROP) Plan for the Maryland portion of the Philadelphia-Wilmington - Trenton Ozone Nonattainment Area

Federal Register Dates: June 5, 1997, 62 FR 30818 (proposed rule); July 29, 1997, 62 FR 40457 (final rule)

EPA Effective date: August 28, 1997

State Submittal Date: July 12, 1995

Affected Areas: Cecil County

Summary of the Plan: The Cecil County 15% plan, submitted with the 15% plan for the Baltimore nonattainment area and received by EPA on July 12, 1995, consists of the 1990 base year inventory for VOC emissions, an adjustment to the 1990 emission inventory removing non-creditable emission reductions as per section 182(b)(1)(B) through (D) of the Act, a 1996 projection of emissions including growth, a calculation of the 15% VOC emission reduction required by 1996 that includes offsetting growth, and a list of control measures that will produce the 15% emission reduction.

Emissions Inventories:

Table 1 City/County Summary for the Ozone Nonattainment Area Approved 1990 ROP Base Year Inventory - (tons/day)		
	VOC	NO_x
Point Source	0.6	0.6
Area Source	9.3	9.7
Mobile Source	7.0	7.0
Non-road Source	2.0	2.3
TOTAL	18.9	19.6

Table 2 Calculation of 15% Reduction Target Level for the Nonattainment Area (in tons per day)	
Reductions from Federal Motor Vehicle Emissions Control Program (FMVCP) and Gasoline Volatility Regulations (RVP)	2.4
1990 Adjusted Base Year Inventory (ROP base year - FMVCP/RVP)	16.6
15% Reduction Requirement (0.15 x adjusted base year inventory)	2.49
Expected Emissions Growth 1990-1996	0.7
3% Contingency Measures [0.03 x (3)]	0.49
Total Emissions Reductions Required	3.68
Total Reduction Claimed by Maryland from Creditable Measures.	4.72

Control Measures/Regulations Included As Part of the Plan and Creditable Emissions Reductions:

Name of Control Measure or SIP Element	Type of Measure	Creditable Emissions Reductions (tons per day)	Approval Status
Autobody Refinishing	State Rule	0.14	SIP- Approved (8/4/97, 62 FR 41853)
Open Burning Ban	State Rule	3.52	SIP Approved (2/25/97, 62 FR 8380)
Stage I Vapor Recovery	State Rule	0.8	SIP Approved (1/6/95, 60 FR 2018)
AIM Surface Coatings	Federal Rule	0.16	Promulgated at 40 CFR Part 59, subpart D
Consumer & Commercial Products	Federal Rule	0.1	Promulgated at 40 CFR Part 59, subpart C
Total Creditable Emissions Reductions		4.72	

Contingency Measures: A 3% reduction as a contingency measure (0.49 TPD) can be achieved through the creditable control measures on open burning, stage I, consumer and commercial products,

autobody refinishing, and AIM coatings. Ozone areas classified as moderate or above must include in their submittal, under section 172(c)(9) of the Act, contingency measures to be implemented if reasonable further progress (RFP) is not achieved, or if the standard is not attained by the applicable date. Therefore, EPA interprets the Act to require states with moderate and above ozone nonattainment areas to include sufficient contingency measures in the rate-of-progress plan, so that upon implementation of such measures, additional emissions reductions of up to 3% of the adjusted base year inventory ($0.03 \times 16.6 \text{ TPD} = 0.49 \text{ TPD}$) would be achieved in the year after the failure has been identified. This 0.49 TPD is the 3% contingency reduction. The needed emission reduction for the Cecil County rate-of-progress plan is the sum of the required 15% reduction (2.49 TPD), the expected emission growth from 1990 to 1996 (0.7 TPD), and the 3% contingency reduction (0.49 TPD), totaling 3.68 TPD.

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