

1990 CAA Ozone SIPs: A Brief Revisit

Leah Weiss

Overview of CAA Ozone Planning & Control Requirements by Classification

		NSR offset ratio	Major source threshold	
EXTREME (20 years to attain)	TRAFFIC CONTROLS DURING CONGESTION	1.5 : 1 Extreme	10	
	CLEAN FUELS REQUIREMENT FOR BOILERS			
SEVERE (15/17 years to attain)	PENALTY FEE PROGRAM FOR MAJOR SOURCES	1.3 : 1 Severe	25	
	LOW VOC REFORMULATED GAS			
	VMT GROWTH OFFSET			
SERIOUS (9 years to attain)	VMT DEMONSTRATION (& TCMs IF NEEDED)	1.2 : 1 Serious	50	
	NSR REQUIREMENTS FOR EXISTING SOURCE MODS			
	ENHANCED I/M			CLEAN FUELS PROGRAM (IF APPLICABLE)
	MODELED DEMO OF ATTAINMENT			MILESTONE CONTINGENCY MEASURES FOR RFP
	18% RFP OVER 6 YEARS			ENHANCED MONITORING PLAN
	STAGE II GASOLINE VAPOR RECOVERY			
MODERATE (6 years to attain)	BASIC I/M	1.15 : 1 Moderate	100	
	15% RFP OVER 6 YEARS			CONTINGENCY MEASURES FOR FAILURE TO ATTAIN
	MAJOR SOURCE VOC/NO _x RACT			ATTAINMENT DEMONSTRATION
	TRANSPORTATION CONFORMITY DEMONSTRATION			
MARGINAL (3 years to attain)	NEW SOURCE REVIEW PROGRAM	1.1 : 1 Marginal	100	
	BASELINE EMISSION INVENTORY (EI)			MAJOR SOURCE EMISSION STATEMENTS
	PERIODIC EMISSION INVENTORY UPDATES			

Reasonable Further Progress (RFP)

- Requirement for NAA SIPs to contain increments of progress (emissions reductions of relevant pollutants) from date of designation, up to attainment dates
- Applies for all NAAQS
- Ozone has extra requirements

Also Called Rate of Progress (ROP) for Ozone

- Component of an Ozone NAA SIP
- SIP revisions documenting that anthropogenic VOC emissions rates are declining relative to a baseline period
- 15% ROP Plan (sec. 182(b)(1))
 - Plans for ozone NAA to reduce VOC emissions in 1996 by 15% from a 1990 baseline
- Post-1996 ROP Plan (sec. 182(c)(2)(B))
 - Reduce VOC emissions by a minimum of a 3% average per year, across 3-year running averages beginning November 1996 until the ozone attainment date is reached
 - NO_x emission reductions can be substituted for VOC reductions
 - Emission reductions from some motor vehicles control programs are excluded from the ROP plan

When ROP/RFP Plans are Required

- Moderate or higher O₃ NAA
- If attainment date is ≤ 5 years from designation, RFP is met by attainment emissions reductions and no SIP required
- If attainment date is > 5 years from designation, RFP SIP to provide 15% NO_x or VOC emissions reductions within 6 years of designation; proportional reductions between the end of the first increment and attainment

Example:

Western MA 15% Plan (1999)

- Revisions to Stage II regulations to enhance the compliance assurance
- Motor Vehicle Inspection and Maintenance Program
- Point Source RACT
- Auto Refinishing
- Commercial and Consumer Products
- Architectural Coatings
- On Road Control Measures: Reformulated Gasoline, Tier1, California-Low Emission Vehicle Program
- Non-Road Control Measures: Reformulated Gasoline, federal non-road engine standards

**Any questions or
comments?**