

Region 3 Plan Summary
Youngstown-Warren-Sharon, Ohio-Pennsylvania 8-Hour Ozone Area

Title: Maintenance Plan for the Youngstown-Warren-Sharon, OH-PA 8-hour Ozone Attainment Area

Federal Register Dates: July 27, 2007, 72 FR 41246 (Proposed Rule); October 19, 2007, 72 FR 59213 (Final Rule); January 14, 2008, 73 FR 2162 (Final rule- correction); March 4, 2008, 73 FR 11560 (Final rule- correction).

EPA Effective Date: November 19, 2007

State Submittal Date: March 27, 2007

Affected Area: Mercer County, PA

Key Features:

1. 2004 attainment year; projections to 2009 and 2018.
2. The Mercer County maintenance plan shows maintenance of the 8-hour ozone NAAQS by demonstrating that current and future emissions of VOC and NO_x remain at or below the attainment year 2004 emissions levels throughout Mercer County through the year 2018.

Monitoring Network: There are four ozone monitors located throughout the Youngstown Area, one located in Mahoning County, Ohio, two located in Trumbull County, Ohio and one in Mercer County, Pennsylvania that measure air quality with respect to ozone, in accordance with 40 CFR part 58.

Contingency Plan Triggers:

1. Contingency measures will be considered if for two consecutive years the fourth highest 8-hour ozone concentrations at any of the Youngstown Area monitors are above 84 ppb.
2. Contingency measures will also be considered in the event that a violation of the 8-hour ozone standard occurs at any of the Youngstown Area monitors.

Contingency Measures:

Contingency measures to be considered for the Youngstown Area will include, but not limited to the following:

Non-Regulatory Measures:

1. Voluntary diesel engine "chip reflash" - installation software to correct the defeat device option on certain heavy duty diesel engines.
2. Diesel retrofit, including replacement, repowering or alternative fuel use, for public or private local onroad or offroad fleets.
3. Idling reduction technology for Class 2 yard locomotives.
4. Idling reduction technologies or strategies for truck stops, warehouses and other freight-handling facilities.
5. Accelerated turnover of lawn and garden equipment, especially commercial equipment, including promotion of electric equipment.
6. Additional promotion of alternative fuel (e.g., biodiesel) for home heating and agricultural use.

Regulatory Measures:

1. Additional controls on consumer products.
2. Additional control on portable fuel containers.

Schedule: The plan lays out a process to have any regulatory contingency measures in effect within 19 months of the trigger. The plan also lays out a process to implement the non-regulatory contingency measures within 12-24 months of the trigger.

VOC and NOx Emissions for the Youngstown Area (TPSD); 2004, 2009, 2018

		2004			2009			2018		
		PA	OH	Total	PA	OH	Total	PA	OH	Total
Point	VOC	1.7	6.0	7.8	2.7	6.4	9.1	3.7	7.8	11.4
	NOx	2.9	20.3	23.2	4.3	8.3	12.6	5.5	12.7	18.2
Area	VOC	7.6	24.1	31.7	7.4	22.9	30.2	7.8	23.0	30.9
	NOx	0.8	2.5	3.3	0.9	2.8	3.7	0.9	3.0	3.9
Mobile	VOC	5.9	26.2	32.1	4.5	19.6	24.1	3.0	10.4	13.4
	NOx	15.8	43.5	59.3	11.6	33.7	45.3	5.3	13.3	18.5

		2004			2009			2018		
		PA	OH	Total	PA	OH	Total	PA	OH	Total
Nonroad	VOC	3.8	8.3	12.1	3.4	6.5	9.9	2.6	5.2	7.8
	NOx	2.8	16.3	19.1	2.3	12.5	14.8	1.4	8.2	9.6
Total	VOC	19.1	64.6	83.6	18.0	55.4	73.4	17.1	46.3	63.4
	NOx	22.4	82.5	104.9	19.1	57.4	76.4	13.1	37.2	50.2

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