

**Region 3 Plan Summary
Allentown-Bethlehem-Easton, Pennsylvania 8-Hour Ozone Area**

Title: Maintenance Plan for the Allentown-Bethlehem-Easton 8-hour Ozone Attainment Area

Federal Register Dates: January 7, 2008, 73 FR 1162 (Proposed rule); March 4, 2008, 73 FR 11557 (Final rule).

EPA Effective Date: April 3, 2008

State Submittal Date: June 26, 2007; amendment submitted August 9, 2007.

Affected Areas: Carbon, Lehigh, and Northampton Counties.

Key Features:

1. 2004 attainment year; projections to 2009 and 2018.
2. The Allentown Area 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 the Area through the year 2018.

Monitoring Network: There are three ozone monitors (located in Lehigh and Northampton Counties) that provided monitoring data to support the Commonwealth's ozone maintenance plan for the Allentown area. The Commonwealth has committed to continue to operate its monitoring network in accordance with 40 CFR part 58, with no reduction in the number of sites.

Contingency Plan Triggers

1. Contingency measures will be considered if for two consecutive years the fourth highest 8-hour ozone concentration at any Allentown Area monitor is 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 Allentown Area monitor.

Contingency Measures

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

Regulatory Measures:

1. Additional controls on consumer products.

2. Additional controls on portable fuel containers.

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 retrofits, including replacement, repowering or alternative fuel use, for public or private local on-road or off-road 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.

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

Total VOC Emissions for 2004-2018 (TPSD)

Source Category	2004 VOC emissions	2009 VOC emissions	2018 VOC emissions
Stationary Point	6.4	5.5	6.6
Stationary Area	28.1	26.7	28.9
Highway Mobile	30.5	24.1	14.7
Nonroad Mobile	13.0	10.3	8.9
Total	78.0	66.6	59.1

Total NOx Emissions for 2004-2018 (TPSD)

Source Category	2004 NOx emissions	2009 NOx emissions	2018 NOx emissions
Point	58.8	58.3	66.6
Area	2.9	3.1	3.2
Highway Mobile	48.3	34.8	15.4
Nonroad Mobile	12.9	11.0	6.6
Total	122.9	107.2	91.8

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