

Region III Plan Summary
West Virginia portion of Steubenville-Weirton Nonattainment Area for the 1997 Annual and 2006 24-Hour PM_{2.5} Standards

Title: Maintenance Plans for West Virginia portion of Steubenville-Weirton, OH-WV Nonattainment Area for the 1997 Annual and 2006 24-Hour PM_{2.5} Standards and 2008 Comprehensive Emissions Inventory for the 2006 24-Hour PM_{2.5} Standard

Federal Register Dates: December 9, 2013, 78 FR 73769 (Proposed Rule); March 18, 2014, 79 FR 15019 (Final Rule)

EPA Effective date: April 17, 2014

State Submittal Date: April 13, 2012 and June 8, 2012

Affected Areas: Brooke and Hancock Counties, West Virginia

Key Features: 2008 comprehensive emissions inventory; 2008 attainment year emissions inventory; projected 2015 and 2025 emissions inventories

The maintenance plans show maintenance of the 1997 annual and the 2006 24-hour PM_{2.5} NAAQS by demonstrating that current and future emissions of PM_{2.5}, NO_x and SO₂ remain at or below the attainment year 2008 emissions throughout the entire area through year 2025. The 2008 emissions inventory was also included to satisfy the comprehensive emissions inventory requirement of section 172(c)(3) of the Clean Air Act.

Monitoring Network: West Virginia currently operates 3 monitors in Brooke and Hancock Counties. West Virginia will continue to operate a PM_{2.5} monitoring network and will consult with EPA prior to making any necessary changes, in accordance with 40 CFR part 58.

Contingency Plan Triggers:

1. If an exceedance of any of the standards occurs for any given year.
2. If a violation of any of the standards occurs for any given 3-year period.

Contingency Measures:

Contingency measures for trigger 1:

WVDEP will conduct a study to determine if the emissions trends show increasing concentrations of PM_{2.5}, and whether this trend, if any, is likely to continue. If it is determined through the study that action is necessary to reverse emissions increases, West Virginia will follow the implementation of contingency measure #2.

Contingency measures for trigger 2:

1. Diesel reduction emission strategies.
2. Alternative fuel and diesel retrofit programs for fleet vehicle operations.

3. Tighter PM_{2.5}, NO_x and SO₂ emissions offsets for new and modified major sources.
4. Concrete manufacturing – upgrade wet suppression.
5. Additional NO_x reductions.
6. List of sources that could potentially be controlled: Industrial, commercial and institutional (ICI) boilers for SO₂ and NO_x controls, electric generating units (EGUs), process heaters, internal combustion engines, combustion turbines, other sources greater than 100 tons per year, fleet vehicles, and aggregate processing plants.

Schedule: Adoption and implementation of appropriate control measures is expected within 18 months from the end of the calendar year of when the triggering action occurs.

Additional Provision: The State’s maintenance plan submission expressly documents that the entire Steubenville-Weirton Area’s emissions inventories will remain below the attainment year inventory through 2025. Table 1 shows the emissions inventories for the 2008 attainment base year, the 2015 interim year, and the 2025 maintenance plan end year for the Steubenville-Weirton Area. The inventories show that, between 2008 and 2025, the Area is projected to reduce direct PM_{2.5} emissions by 116 tons per year (tpy), NO_x emissions by 25,816 tpy and SO₂ emissions by 90,823 tpy. Thus, the projected emissions inventories show that the West Virginia portion of the Steubenville-Weirton Area will continue to maintain the 1997 annual and 2006 24-hour PM_{2.5} standards during the maintenance period.

Table 1. Comparison of 2008, 2015, and 2025 PM_{2.5}, NO_x, and SO₂ Total Emissions, in tpy, for the Steubenville-Weirton Area

Pollutant	2008	2015	2025	Emissions Decrease 2008-2015	Emissions Decrease 2008-2025
PM _{2.5}	2,814	2,741	2,698	75	116
NO _x	43,349	25,563	17,533	17,786	25,815
SO ₂	138,268	74,813	47,446	63,455	90,823

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