

Region 3 Plan Summary
Follansbee, West Virginia PM-10 Attainment Plan

Title: Attainment Plan and Contingency Measures for the Follansbee PM₁₀ Nonattainment Area

Federal Register Dates: January 7, 1994, 59 FR 988 (proposed rule- limited approval), July 25, 1994, 59 FR 37696 (final rule- limited approval); February 5, 1996, 61 FR 4246 (proposed rule- approval of attainment demonstration), November 15, 1996, 61 FR 58481 (final rule- approval of attainment demonstration), August 27, 2003, 66 FR 51544 (proposed rule- approval of contingency measures), 66 FR 51459 (final rule- approval of contingency measures).

EPA Effective Date: December 16, 1996 for attainment plan; October 27, 2003 for contingency measures.

State Submittal: November 15, 1991; revisions submitted on November 22, 1995.

Affected Area: In Brooke County, the Follansbee area bounded on the north by the Market Street Bridge, on the east by West Virginia Route 2, on the south by the extension of the southern boundary of Steubenville Township in Jefferson County, Ohio, and on the west by the Ohio/West Virginia border.

Summary of the Plan: Steel and industrial facilities were the main cause of nonattainment in the area. The attainment demonstration was based upon allowable emission levels for stationary sources impacting the nonattainment area. PM₁₀ emissions from public roads did not play a significant role in nonattainment and their impacts were less than 5% of the PM₁₀ concentrations.

Control Measures Included As Part of the Plan: West Virginia submitted six Consent Orders for incorporation into West Virginia's State Implementation Plan (SIP). By entering into the Consent Orders, Wheeling-Pittsburgh Steel Corporation; Standard Lafarge; Follansbee Steel Corporation; Koppers Industries, Incorporated; International Mill Service, Incorporated; and Starvaggi Industries, Incorporated have agreed to comply with reduced allowable emission rates for PM-10. Consent orders with International Mill Service, Koppers Industries, Standard Lafarge, Starvaggi Industries, and Wheeling-Pittsburgh Steel provide for new or improved, specific dust control measures. Consent orders with Follansbee Steel and Koppers Industries require "add-on" control equipment. More detail is provided below:

Table 1.--New Limits for Follansbee Steel

Process	Control	Limit(s)	
		Unit PM-10 (lb/hr)	TSP (lb/hr)
Terne Coaters No. 1, 2 (approx. 53% control)	Company has flexibility.	No. 1.....	2.00 (approx. 53% control).. 1.80 (approx.
	Will probably require a new pollution control device such as a commercial precipitator.	No. 2.....	1.80 (approx. 71% control).. 1.66

Table 2.--New Limits for International Mill Services

Process	Control	Limit(s)
Sinter Receiving Hopper.....	Partial Enclosure & Spray.....	TSP <= 0.092 lb/hr, PM-10 <= 0.046 lb/hr, 5% opacity, 95% control efficiency.
Sinter Hopper..... Sinter Screens	Full Enclosure & Spray.....	Hopper--TSP (lb/hr) 0.092; PM-10 (lb/hr) 0.046. Screening--TSP (lb/hr) 1.84; PM-10(lb/hr) 0.938. 10% opacity, 95% control
Sinter Storage Piles.....	Water Spray.....	TSP <= 0.682 lb/hr; PM-10 <= 0.596 lb/hr; 5% opacity; 75% control of TSP & PM-10.
Unpaved Areas.....	Dust Control Plan.....	Program is the responsibility of Wheeling-Pittsburgh Steel Company under its consent order with WVAPCC. International Mill. Service is also responsible should Wheeling-Pitt, for any reason, not implement the program. (See Table 6.)

Table 3.--New Limits for Koppers

Process	Control	Limit(s)
Pitch Dryer.....	Baghouse.....	TSP <= (0.93 lb/ton). PM-10 <= (0.30 lb/ton).

Table 4.--New Limits for Standard Lafarge

Process	Control	Limit(s)
Slag Processing Plant.....	Company has flexibility.....	TSP <=19.13 lb/hr. PM-10 <=8.15 lb/hr. 10% opacity, 95% control.
Slag Receiving Hopper.....	Increase Web Suppression.....	TSP <=0.07 lb/hr. PM-10 <=0.06 lb/hr. 5% opacity, 80% control.
Paved & Unpaved Roads.....	Chemical Dust Suppressant.....	90% control.

Table 5.--New Limits for Starvaggi Incorporated

Process	Control	Limit(s)
Unpaved Roads & Parking Lots.....	Chemical Suppressant.....	90% control.

Table 6.--New Limits for Wheeling-Pittsburgh Steel

Process	Control	Limit(s)
Coal Crushing.....	Full Enclosure.....	TSP <=1.0 lb/hr PM-10 <=0.51 lb/hr; No visible emissions; 90% Control (PM-10).
Coal Sizing No. 1, 2.....	Full Enclosure.....	TSP <= 1.48 lb/hr PM-10 <= 0.76 lb/hr 5% opacity; 90% Control (PM-10).
Coke Pushing No. 1, 2, 3.....	Existing Baghouse.....	2.14 lb/hr (approx. 0.022 lb/ton coal charged at maximum operating rate).

	Battery Stack (lb/hr)	Approx. lb/ton of coal charged at maximum capacity

Coke Underfiring No. 1, 2, 3, 8..... None.....	TSP	
	No. 1.....1.40	0.044
	No. 2.....1.40	0.044
	No. 3.....1.58	0.046
	No. 8.....6.93	0.048
	PM-10	
	No. 1..... 1.35	0.043
	No. 2..... 1.35	0.043
	No. 3..... 1.52	0.046
	No. 8.....6.65	0.047

Unpaved & Irregular Paved Surfaces.....	Chemical Suppression.....	95% Control.
Paved Roads.....	Flushing and Vacuum Sweeping.....	95% Control.

Contingency Measures: Within 365 days of receiving notice that attainment had not been achieved, the following sources will have implemented additional PM₁₀ emission reductions: Follansbee Steel would have obtained additional PM₁₀ actual reductions of 0.22 lbs/hr and 0.96 tpy; Wheeling Pittsburgh Steel will have achieved additional actual reductions of 6.5 lbs/hr and 28.5 tpy; International Mill Services would have obtained actual reductions of 0.1 lbs/hr and 0.4 tpy; and Koppers would add additional dust control on access roads.

EPA Region 3 Contact: Ruth E. Knapp (3AP21), U.S. EPA Region III
 1650 Arch Street, Philadelphia, PA 19103-2029
 (215) 814-2191; knapp.ruth@epa.gov