

averages. For a new BOPF shop housing a bottom-blown furnace, a 10 percent opacity limit applies (6-minute average) except that one 6-minute period not to exceed 20 percent may occur once during each steel production cycle. For a new BOPF shop housing a top-blown furnace, a 10 percent opacity limit applies (3-minute average) except that one 3-minute period greater than 10 percent but less than 20 percent may occur once during each steel production cycle.

#### 4. Capture Systems

We revised the requirements for capture systems to allow plants to choose operating parameters appropriate for assessing capture system performance, establish the values or settings for the parameters, and designate monitoring requirements. At a minimum, the limits must indicate the level of the ventilation draft and damper position settings. Plants must include information to support their selected parameter(s) in their operation and maintenance plan (including other process configurations that may be used) and certify in their performance test report that during the tests, the capture system operated at the limit(s) established in their plan.

#### 5. Operating Limits

For bag leak detection systems, we require that corrective actions be initiated within 1 hour of a bag leak detection system alarm. For a venturi scrubber, the hourly average pressure drop and scrubber water flow rate must remain at or above the level established during the initial performance test. Plants using an electrostatic precipitator (ESP) must install and operate a continuous opacity monitoring system (COMS) according to Performance Specification 1 in 40 CFR part 60, appendix B. The average opacity for each 6-minute period must remain at or below the site-specific limit. The final rule uses a statistical approach, requiring that the limit be based on the COMS average corresponding to the 99 percent upper confidence limit on the mean of a normal distribution of average opacity values established during the initial performance test. Plants must submit information on monitoring parameters if another type of control device is used.

The final rule requires sinter plants to maintain the oil content of the feedstock at or below 0.02 percent. This limit is based on a 30-day rolling average. We are including an alternative VOC limit of 0.2 pound of VOC per ton (lb/ton) of sinter produced. This limit is also based on a 30-day rolling average.

#### *D. What Are the Operation and Maintenance Requirements?*

All plants subject to the final rule must prepare and implement a written startup, shutdown, and malfunction plan according to the requirements in 40 CFR 63.6(e). A written operation and maintenance plan is also required for capture systems and control devices subject to an operating limit. This plan must describe procedures for monthly inspections of capture systems, preventative maintenance requirements for control devices, and corrective action requirements for baghouses. To avoid potential implementation issues, we have added specific descriptions of the equipment to be inspected and a requirement to correct any deficiency or defect as soon as practicable. In the event of a bag leak detection system alarm, the plan must include specific requirements for initiating corrective action to determine the cause of the problem within 1 hour, initiating corrective action to fix the problem within 24 hours, and completing all corrective actions needed to fix the problem as soon as practicable. If applicable, the plan also must include procedures for determining and recording the sinter plant production rate.

#### *E. What Are the General Compliance Requirements?*

The final rule requires compliance with the emission limitations and operation and maintenance requirements at all times, except during periods of startup, shutdown, and malfunction as defined in 40 CFR 63.2. The owner or operator must develop and implement a written startup, shutdown, and malfunction plan according to the requirements in 40 CFR 63.6(e)(3).

The final rule also requires keeping a log detailing the operation and maintenance of the process and emission control equipment. This requirement applies during the period between the compliance date and the date that continuous monitoring systems are installed and any operating limits set.

#### *F. What Are the Initial Compliance Requirements?*

The final rule requires performance tests to demonstrate that each affected source meets all applicable emission and opacity limits. The final rule allows the owner or operator to conduct representative sampling of stacks where there are more than three stacks associated with a process (subject to approval by the permitting authority).

The PM concentration (front-half filterable catch only) is to be measured using EPA Method 5, 5D, or 17 in 40 CFR part 60, appendix A. The EPA Method 9 in 40 CFR part 60, appendix A, is required for determining the opacity of emissions, with instructions for computing 6-minute and 3-minute block averages.

The final rule also includes procedures for establishing site-specific operating limits for control devices during the performance test. We have also included procedures to be followed during opacity tests to ensure capture systems operate at the limits established in the operation and maintenance plan.

The final rule requires a performance test to demonstrate initial compliance with the operating limit for the oil content of the sinter plant feedstock using OSW 846 Method 9071B (Revision 2, April 1998). Plants must sample for 30 consecutive days and compute the 30-day rolling average for each operating day. Plants electing the alternative operating limit must conduct a performance test by sampling VOC emissions and analyzing the samples according to EPA Method 25 in 40 CFR part 60, appendix A. Plants may use an alternative method that has been previously approved by the permitting authority in lieu of OSW 846 Method 9071B for oil content or EPA Method 25 for VOC emissions.

To demonstrate initial compliance with the operation and maintenance requirements, owners or operators must prepare the operation and maintenance plan, certify in the performance test report that capture systems operated at the limits established in the operation and maintenance plan, and submit their notification of compliance status. In the notification of compliance status, the owner or operator must certify that the capture systems will be operated at the limits established in the plan.

#### *G. What Are the Continuous Compliance Requirements?*

Plant owners or operators must conduct PM and opacity performance tests at least twice during each title V operating permit term (at midterm and renewal). Owners or operators also must monitor operating parameters for capture systems and control devices subject to operating limits, and carry out the procedures in their operation and maintenance plan.

To demonstrate continuous compliance with the operating limit for the oil content of sinter plant feedstock, owners or operators must determine the oil content every 24 hours (from the composite of at least three samples taken at 8-hour intervals) and compute