

Environmental Protection Agency

§ 63.9915

during each particulate matter or PM₁₀ test run. Three valid test runs are needed to comprise a performance test.

(c) Compute the mass emissions rate in pounds per hour (lbs/hr) for each test run using Equation 1 of this section:

$$E_{\text{lbs/hr}} = \frac{C_s \times Q_{\text{std}} \times 60}{7,000} \quad (\text{Eq. 1})$$

Where:

$E_{\text{lbs/hr}}$ = Mass emissions rate of particulate matter or PM₁₀ (lbs/hr);

C_s = Concentration of particulate matter or PM₁₀ in the gas stream, grains per dry standard cubic feet (gr/dscf);

Q_{std} = Volumetric flow rate of stack gas, dry standard cubic feet per minute (dscfm);

60 = Conversion factor, minutes per hour (min/hr); and

7,000 = Conversion factor, grains per pound (gr/lb).

§ 63.9914 What test methods and other procedures must I use to demonstrate initial compliance with chlorine and hydrochloric acid emission limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in § 63.7(e)(1).

(b) To determine compliance with the applicable emission limits for chlorine and hydrochloric acid in Table 1 to this subpart, you must follow the test methods and procedures specified in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of chlorine and hydrochloric acid according to the following test methods in appendix A to 40 CFR part 60:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 26 or 26A, as applicable, to determine the concentration of hydrochloric acid and chlorine.

(2) Collect a minimum sample of 60 dscf during each test run for chlorine and hydrochloric acid. Three valid test

runs are needed to comprise a performance test.

(c) Compute the mass emissions rate (lbs/hr) for each test run using Equation 1 of this section:

$$E_{\text{lbs/hr}} = \frac{C_s \times Q_{\text{std}} \times 60}{35.31 \times 454,000} \quad (\text{Eq. 1})$$

Where:

$E_{\text{lbs/hr}}$ = Mass emissions rate of chlorine or hydrochloric acid (lbs/hr);

C_s = Concentration of chlorine or hydrochloric acid in the gas stream, milligrams per dry standard cubic meter (mg/dscm);

Q_{std} = Volumetric flow rate of stack gas (dscfm);

60 = Conversion factor (min/hr);

35.31 = Conversion factor (dscf/dscm); and

454,000 = Conversion factor (mg/lb).

§ 63.9915 What test methods and other procedures must I use to demonstrate initial compliance with dioxin/furan emission limits?

(a) You must conduct each performance test that applies to your affected source according to the requirements in § 63.7(e)(1).

(b) To determine compliance with the applicable emission limit for dioxins/furans in Table 1 to this subpart, you must follow the test methods and procedures specified in paragraphs (b)(1) and (2) of this section.

(1) Determine the concentration of dioxin and furan according to the following test methods in appendix A to 40 CFR part 60:

(i) Method 1 to select sampling port locations and the number of traverse points. Sampling ports must be located at the outlet of the control device and prior to any releases to the atmosphere.

(ii) Method 2, 2F, or 2G to determine the volumetric flow of the stack gas.

(iii) Method 3, 3A, or 3B to determine the dry molecular weight of the stack gas.

(iv) Method 4 to determine the moisture content of the stack gas.

(v) Method 23 to determine the concentration of dioxins/furans. For each dioxin/furan congener measured in accordance with this paragraph (b)(v), multiply the congener concentration by its corresponding toxic equivalency factor specified in Table 2 of this subpart.

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(2) Collect a minimum sample of 100 dscf during each test run. Three valid test runs are needed to comprise a performance test.

§ 63.9916 What test methods and other procedures must I use to establish and demonstrate initial compliance with the operating limits?

For a wet scrubber subject to operating limits for pressure drop and scrubber water flow rate in § 63.9890(b), you must establish site-specific operating limits according to the procedures in paragraphs (a) and (b) of this section.

(a) Using the continuous parameter monitoring system (CPMS) required in § 63.9920, measure and record the pressure drop and scrubber water flow rate at least every 15 minutes during each run of the particulate matter performance test.

(b) Compute and record the average pressure drop and scrubber water flow rate for each individual test run. Your operating limits are the lowest average individual pressure drop and scrubber water flow rate values in any of the three runs that meet the applicable emission limit.

§ 63.9917 How do I demonstrate initial compliance with the emission limitations and work practice standards that apply to me?

(a) For each affected source subject to an emission limit in Table 1 to this subpart, you have demonstrated initial compliance if:

(1) You have met the conditions in Table 3 to this subpart; and

(2) For each wet scrubber subject to the operating limits for pressure drop and scrubber water flow rate in § 63.9890(b), you have established appropriate site-specific operating limits and have a record of the pressure drop and scrubber water flow rate measured during the performance test in accordance with § 63.9916.

(b) You have demonstrated initial compliance with the work practice standards in § 63.9891 if you have certified in your notification of compliance status that:

(1) You have prepared a fugitive dust emissions control plan according to the requirements in § 63.9891 and submitted the plan for approval; and

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(2) You will operate according to the requirements in the plan.

§ 63.9918 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

You must demonstrate initial compliance by certifying in your notification of compliance status that you have met the requirements in paragraphs (a) and (b) of this section.

(a) You have prepared the operation and maintenance plan according to the requirements in § 63.9910; and

(b) You will operate each control device according to the procedures in the plan.

CONTINUOUS COMPLIANCE REQUIREMENTS

§ 63.9920 What are my continuous monitoring requirements?

For each wet scrubber subject to the operating limits for pressure drop and scrubber water flow rates in § 63.9890(b), you must at all times monitor the hourly average pressure drop and liquid flow rate using a CPMS according to the requirements in § 63.9921(a).

§ 63.9921 What are the installation, operation and maintenance requirements for my monitors?

(a) For each wet scrubber subject to the operating limits in § 63.9890(b) for pressure drop and scrubber water flow rate, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (a)(1) and (2) of this section.

(1) For the pressure drop CPMS, you must:

(i) Locate the pressure sensor(s) in or as close to a position that provides a representative measurement of the pressure and that minimizes or eliminates pulsating pressure, vibration, and internal and external corrosion.

(ii) Use a gauge with a minimum measurement sensitivity of 0.5 inch of water or a transducer with a minimum measurement sensitivity of 1 percent of the pressure range.

(iii) Check the pressure tap for pluggage daily.

(iv) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.