

Environmental Protection Agency

§ 63.5530

GENERAL COMPLIANCE REQUIREMENTS

§ 63.5515 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits, operating limits, and work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in § 63.6(e)(1)(i).

(1) During the period, if any, between the compliance date specified for your affected source in § 63.5495 and the date upon which continuous monitoring systems (CMS) have been installed and validated and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of any control technique used to comply with this subpart.

(c) You must develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in § 63.6(e)(3).

(d) After you treat a wastewater stream according to the provisions of subparts F and G of this part, it is no longer subject to this subpart.

(e) If you use a boiler or process heater to comply with an emission limit or work practice standard in Table 1 to this subpart, then the vent stream must be introduced into the flame zone of the boiler or process heater.

(f) You are not required to conduct a performance test when you use any of the units specified in paragraphs (f)(1) through (5) of this section to comply with the applicable emission limit or work practice standard in table 1 to this subpart. You are also exempt from the continuous compliance, reporting, and recordkeeping requirements specified in tables 5 through 9 to this subpart for any of these units. This exemption applies to units used as control devices or wastewater treatment units.

(1) A boiler or process heater with a design heat input capacity of 44 megawatts or greater;

(2) A boiler or process heater into which the vent stream is introduced

with the primary fuel or is used as the primary fuel;

(3) A boiler or process heater burning hazardous waste that meets the requirements in paragraph (f)(3)(i) or (ii) of this section.

(i) The boiler or process heater has been issued a final permit under 40 CFR part 270 and complies with the requirements of 40 CFR part 266, subpart H; or

(ii) The boiler or process heater has certified compliance with the interim status requirements of 40 CFR part 266, subpart H.

(4) A hazardous waste incinerator that has been issued a final permit under 40 CFR part 270 and that complies with the requirements of 40 CFR part 264, subpart O, or that has certified compliance with the interim status requirements of 40 CFR part 265, subpart O.

(5) A control device for which a performance test was conducted for determining compliance with a rule promulgated by EPA and the test was conducted using the same test methods specified in Table 4 to this subpart and either you have made no deliberate process changes since the test, or you can demonstrate that the results of the performance test with or without adjustments, reliably demonstrate compliance despite process changes.

(g) For purposes of meeting any of the emission limits in Table 1 to this subpart, you may use either a single control technique or any combination of control techniques, as defined in § 63.5610.

(h) You must be in compliance with the provisions of subpart A of this part, except as noted in Table 10 to this subpart.

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TESTING AND INITIAL COMPLIANCE REQUIREMENTS

§ 63.5530 How do I demonstrate initial compliance with the emission limits and work practice standards?

(a) You must demonstrate initial compliance with each emission limit and work practice standard that applies to you according to Table 3 to this subpart. You must also install and

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operate the monitoring equipment according to the requirements in § 63.5545 that apply to you.

(b) You must establish each site-specific operating limit in Table 2 to this subpart that applies to you according to the requirements in § 63.5535 and Table 4 to this Subpart UUUU.

(c) You must submit the Notification of Compliance Status Report containing the results of the initial compliance demonstration according to the requirements in § 63.5575 and Table 7 to this Subpart UUUU.

§ 63.5535 What performance tests and other procedures must I use?

(a) You must conduct each performance test in Table 4 to this Subpart UUUU that applies to you.

(b) You must conduct each performance test for continuous process vents and combinations of batch and continuous process vents according to the requirements in § 63.7(e)(1) and under the specific conditions in Table 4 to this Subpart UUUU. Normal operating conditions will be defined by the affected source. You must conduct each performance test for batch process vents under the specific conditions in Table 4 to this subpart and not under normal operating conditions as specified in § 63.7(e)(1).

(c) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in § 63.7(e)(1).

(d) You must conduct three separate test runs for each performance test re-

quired in this section, as specified in § 63.7(e)(3). Each test run must last at least 1 hour, except as specified in § 63.490(c) for batch process vents.

(e) Except as specified in § 63.490(c) for batch process vents, you may use the equations in paragraphs (e)(1) through (3) of this section as applicable to determine the control efficiency for each performance test.

(1) The total organic HAP emission rate is the sum of the emission rates of the individual HAP components. You must calculate the total organic HAP emission rate at the inlet and outlet of each control device for each test run using Equation 1 of this section:

$$ER_{HAP_t} = \sum_{j=1}^m ER_{HAP_j} \quad (\text{Eq. 1})$$

Where:

ER_{HAP_t} = total emission rate of organic HAP in vent stream, kilograms per hour (kg/hr) (pounds per hour (lb/hr)).

ER_{HAP_j} = emission rate of individual organic HAP in vent stream, kg/hr (lb/hr).

j = individual HAP.

m = number of individual HAP sampled in each test run.

(2) The total sulfide emission rate is the sum of the emission rates of the individual sulfide components, expressed as carbon disulfide. You must calculate the total sulfide emission rate at the inlet and outlet of each control device for each test run using Equation 2 of this section:

$$ER_{sulf_t} = ER_{CS_2} + \left(ER_{H_2S} * \frac{M_{CS_2}}{M_{H_2S}} \right) + \left(ER_{COS} * \frac{M_{CS_2}}{M_{COS}} \right) \quad (\text{Eq. 2})$$

Where:

ER_{sulf_t} = total emission rate of sulfide in vent stream, kg/hr (lb/hr), as carbon disulfide.

ER_{CS_2} = emission rate of carbon disulfide in vent stream, kg/hr (lb/hr).

ER_{H_2S} = emission rate of hydrogen sulfide in vent stream, kg/hr (lb/hr).

M_{CS_2} = mass of carbon disulfide per mole of carbon disulfide, 76 kilograms per kilogram-mole (kg/kg-mol) (76 pounds per pound-mole (lb/lb-mol)).

M_{H_2S} = mass of hydrogen sulfide per mole of carbon disulfide, 68 kg/kg-mol (68 lb/lb-mol).

ER_{COS} = emission rate of carbonyl sulfide in vent stream, kg/hr (lb/hr).

M_{COS} = mass of carbonyl sulfide per mole of carbon disulfide, 120 kg/kg-mol (120 lb/lb-mol).

(3) You must calculate the control efficiency for each control device for