

## Environmental Protection Agency

§ 63.8687

### GENERAL COMPLIANCE REQUIREMENTS

#### § 63.8685 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations (including operating limits) 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).

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

(d) You must develop and implement a written site-specific monitoring plan according to the provisions in § 63.8688(g) and (h).

[68 FR 24577, May 7, 2003, as amended at 71 FR 20469, Apr. 20, 2006]

### TESTING AND INITIAL COMPLIANCE REQUIREMENTS

#### § 63.8686 By what date must I conduct performance tests or other initial compliance demonstrations?

(a) For existing affected sources, you must conduct performance tests no later than 180 days after the compliance date that is specified for your source in § 63.8683 and according to the provisions in § 63.7(a)(2).

(b) As an alternative to the requirement specified in paragraph (a) of this section, you may use the results of a previously-conducted emission test to demonstrate compliance with the emission limitations in this subpart if you demonstrate to the Administrator's satisfaction that:

(1) No changes have been made to the process since the time of the emission test; and

(2) The operating conditions and test methods used during testing conform to the requirements of this subpart; and

(3) The control device and process parameter values established during the previously-conducted emission test are used to demonstrate continuous compliance with this subpart.

(c) For new sources, you must demonstrate initial compliance no later than 180 calendar days after April 29, 2003 or within 180 calendar days after startup of the source, whichever is later.

#### § 63.8687 What performance tests, design evaluations, and other procedures must I use?

(a) You must conduct each performance test in Table 3 to this subpart that applies to you.

(b) Each performance test must be conducted under normal operating conditions and under the conditions specified in Table 3 to this subpart.

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

(d) Except for opacity and visible emission observations, you must conduct three separate test runs for each performance test required in this section, as specified in § 63.7(e)(3). Each test run must last at least 1 hour.

(e) You must use the following equations to determine compliance with the emission limitations.

(1) To determine compliance with the particulate matter mass emission rate, you must use Equations 1 and 2 of this section as follows:

$$E = M_{PM}/P \quad (\text{Eq. 1})$$

Where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured.

$M_{PM}$  = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2.

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

$$M_{PM} = C * Q * K \quad (\text{Eq. 2})$$

Where:

$M_{PM}$  = Particulate matter mass emission rate, kilograms per hour.

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart.

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 °C as measured by the test method specified in Table 3 to this subpart.

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K = Unit conversion constant (0.06 minute-kilogram/hour-gram).

(2) To determine compliance with the total hydrocarbon percent reduction standard, you must use Equations 3 and 4 of this section as follows:

$$RE = \left[ \frac{(M_{THCi} - M_{THCo})}{M_{THCi}} \right] * (100) \quad (\text{Eq. 3})$$

Where:

RE = Emission reduction efficiency, percent.  
 $M_{THCi}$  = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4.  
 $M_{THCo}$  = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

$$M_{THC} = C * Q * K \quad (\text{Eq. 4})$$

Where:

$M_{THC}$  = Total hydrocarbon mass flow rate, kilograms per hour.

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 to this subpart.

Q = Vent gas stream flow rate (dscm/minute) at a temperature of 20 °C as measured by the test method specified in Table 3 to this subpart.

K = Unit conversion constant (1.10E-04 (ppmv)<sup>-1</sup> (kilogram/dscm)(minute/hour)).

(3) To determine compliance with the combustion efficiency standard, you must use Equation 5 of this section as follows:

$$CE = \left[ 1 - \left( \frac{CO}{CO_2} \right) - \left( \frac{THC}{CO_2} \right) \right] \quad (\text{Eq. 5})$$

Where:

CE = Combustion efficiency, percent.  
 CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 to this subpart.  
 CO<sub>2</sub> = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 to this subpart.  
 THC = Total hydrocarbon concentration at the combustion device outlet, parts per

million by volume (dry), as measured by the test method specified in Table 3 to this subpart.

(4) To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, you must use Equation 6 of this section as follows:

$$THC\ DE = \left[ \frac{(CO + CO_2)}{(CO + CO_2 + THC)} \right] \quad (\text{Eq. 6})$$

Where:

THC DE = THC destruction efficiency, percent.  
 CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 to this subpart.  
 CO<sub>2</sub> = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 to this subpart.  
 THC = Total hydrocarbon concentration at the combustion device outlet, parts per

million by volume (dry), as measured by the test method specified in Table 3 to this subpart.

[68 FR 24577, May 7, 2003, as amended at 70 FR 28364, May 17, 2005]

**§ 63.8688 What are my monitoring installation, operation, and maintenance requirements?**

(a) You must install, operate, and maintain each continuous parameter