

OM&M plan, you do not need to conduct a new performance test.

Testing and Initial Compliance Requirements

§ 63.9796 By what date must I conduct performance tests?

You must conduct performance tests within 180 calendar days after the compliance date that is specified for your source in § 63.9786 and according to the provisions in § 63.7(a)(2).

§ 63.9798 When must I conduct subsequent performance tests?

(a) You must conduct a performance test every 5 years following the initial performance test, as part of renewing your 40 CFR part 70 or 40 CFR part 71 operating permit.

(b) You must conduct a performance test when you want to change the parameter value for any operating limit specified in your OM&M plan.

(c) If you own or operate a source that is subject to the emission limits specified in items 2 through 9 of Table 1 to this subpart, you must conduct a performance test on the source(s) listed in paragraphs (c)(1) and (2) of this section before you start production of any refractory product for which the organic HAP processing rate is likely to exceed by more than 10 percent the maximum organic HAP processing rate established during the most recent performance test on that same source.

(1) Each affected shape dryer or curing oven that is used to process the refractory product with the higher organic HAP processing rate.

(2) Each affected kiln that follows an affected shape dryer or curing oven and is used to process the refractory product with the higher organic HAP processing rate.

(d) If you own or operate a kiln that is subject to the emission limits specified in item 5 or 9 of Table 1 to this subpart, you must conduct a performance test on the affected kiln following any process changes that are likely to increase organic HAP emissions from the kiln (e.g., a decrease in the curing cycle time for a curing oven that precedes the affected kiln in the process line).

(e) If you own or operate a clay refractory products kiln that is subject to the emission limits specified in item 10 or 11 of Table 1 to this subpart and is controlled with a dry limestone adsorber (DLA), you must conduct a performance test on the affected kiln following any change in the source of limestone used in the DLA.

§ 63.9800 How do I conduct performance tests and establish operating limits?

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

(b) Before conducting the performance test, you must install and validate all monitoring equipment.

(c) Each performance test must be conducted according to the requirements in § 63.7 and under the specific conditions in Table 4 to this subpart.

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

(e) You must conduct separate test runs for at least the duration specified for each performance test required in this section, as specified in § 63.7(e)(3) and Table 4 to this subpart.

(f) For batch process sources, you must satisfy the requirements specified in paragraphs (f)(1) through (5) of this section.

(1) You must conduct at least two test runs.

(2) Each test run must last an entire batch cycle unless you develop an emissions profile, as specified in items 8(a)(i)(4) and 17(b)(i)(4) of Table 4 to this subpart, or you satisfy the conditions for terminating a test run prior to the completion of a batch cycle as specified in item 8(a)(i)(5) of Table 4 to this subpart.

(3) Each test run must be performed over a separate batch cycle unless you satisfy the conditions for conducting both test runs over a single batch cycle, as described in paragraphs (f)(3)(i) and (ii) of this section.

(i) You do not produce the product that corresponds to the maximum organic HAP processing rate for that batch process source in consecutive batch cycles.

(ii) To produce that product in two consecutive batch cycles would disrupt production of other refractory products.

(4) If you want to conduct a performance test over a single batch cycle, you must include in your Notification of Performance Test the rationale for testing over a single batch cycle.

(5) If you are granted approval to conduct a performance test over a single batch cycle, you must use paired sampling trains and collect two sets of emissions data. Each set of data can be considered a separate test run.

(g) You must use the data gathered during the performance test and the equations in paragraphs (g)(1) through (3) of this section to determine compliance with the emission limitations.

(1) To determine compliance with the total hydrocarbon (THC) emission concentration limit listed in Table 1 to this subpart, you must calculate your emission concentration corrected to 18 percent oxygen for each test run using Equation 1 of this section:

$$C_{\text{THC-C}} = \frac{2.9 \times C_{\text{THC}}}{(20.9 - C_{\text{O}_2})} \quad (\text{Eq. 1})$$

Where:

$C_{\text{THC-C}}$ = THC concentration, corrected to 18 percent oxygen, parts per million by volume, dry basis (ppmvd)

C_{THC} = THC concentration (uncorrected), ppmvd

C_{O_2} = oxygen concentration, percent.

(2) To determine compliance with any of the emission limits based on percentage reduction across an emissions control system specified in Table 1 to this subpart, you must calculate the percentage reduction for each test run using Equation 2 of this section:

$$\text{PR} = \frac{\text{ER}_i - \text{ER}_o}{\text{ER}_i} \times 100 \quad (\text{Eq. 2})$$

Where:

PR = percentage reduction, percent
 ER_i = mass emissions rate of specific HAP or pollutant (THC, HF, or HCl) entering the control device, kilograms (pounds) per hour
 ER_o = mass emissions rate of specific HAP or pollutant (THC, HF, or HCl) exiting the control device, kilograms (pounds) per hour.

(3) To determine compliance with production-based hydrogen fluoride (HF) and hydrogen chloride (HCl) emission limits in Table 1 to this subpart, you must calculate your mass emissions per unit of uncalcined clay processed for each test run using Equation 3 of this section:

$$\text{MP} = \frac{\text{ER}}{\text{P}} \quad (\text{Eq. 3})$$

Where:

MP = mass per unit of production, kilograms of pollutant per megagram (pounds per ton) of uncalcined clay processed
 ER = mass emissions rate of specific HAP (HF or HCl) during each performance test run, kilograms (pounds) per hour
 P = average uncalcined clay processing rate for the performance test, megagrams (tons) of uncalcined clay processed per hour.

(h) You must establish each site-specific operating limit in Table 2 to