

(b) For each temperature CPMS that is used to monitor the combustion chamber temperature of a thermal oxidizer or the catalyst bed inlet temperature of a catalytic oxidizer, you must meet the requirements in paragraphs (a) and (b)(1) through (6) of this section.

(1) Use a temperature CPMS with a minimum accuracy of ± 1.0 percent of the temperature value or 2.8 degrees Celsius ($^{\circ}\text{C}$) (5 degrees Fahrenheit ($^{\circ}\text{F}$)), whichever is greater.

(2) Use a data recording system with a minimum resolution of one-half or better of the required CPMS accuracy specified in paragraph (b)(1) of this section.

(3) Perform an initial validation of your CPMS according to the requirements in paragraph (3)(i) or (ii) of this section.

(i) Place the sensor of a calibrated temperature measurement device adjacent to the sensor of your temperature CPMS in a location that is subject to the same environment as the sensor of your temperature CPMS. The calibrated temperature measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control device that is monitored by your CPMS are operating normally, record concurrently and compare the temperatures measured by your temperature CPMS and the calibrated temperature measurement device. Using the calibrated temperature measurement device as the reference, the temperature measured by your CPMS must be within the accuracy specified in paragraph (b)(1) of this section.

(ii) Perform any of the initial validation methods for temperature CPMS specified in performance specifications for CPMS established in 40 CFR part 60, appendix B.

(4) Perform an accuracy audit of your temperature CPMS at least quarterly, according to the requirements in paragraph (b)(4)(i), (ii), or (iii) of this section.

(i) If your temperature CPMS includes a redundant temperature sensor, record three pairs of concurrent temperature measurements within a 24-hour period. Each pair of concurrent measurements must consist of a temperature measurement by each of the two temperature sensors. The minimum time interval between any two such pairs of consecutive temperature measurements is 1 hour. The measurements must be taken during periods when the process and control device that is monitored by your temperature CPMS are operating normally. Calculate the mean of the

three values for each temperature sensor. The mean values must agree within the required overall accuracy of the CPMS, as specified in paragraph (b)(1) of this section.

(ii) If your temperature CPMS does not include a redundant temperature sensor, place the sensor of a calibrated temperature measurement device adjacent to the sensor of your temperature CPMS in a location that is subject to the same environment as the sensor of your temperature CPMS. The calibrated temperature measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control device that is monitored by your temperature CPMS are operating normally, record concurrently and compare the temperatures measured by your CPMS and the calibrated temperature measurement device. Using the calibrated temperature measurement device as the reference, the temperature measured by your CPMS must be within the accuracy specified in paragraph (b)(1) of this section.

(iii) Perform any of the accuracy audit methods for temperature CPMS specified in QA procedures for CPMS established in 40 CFR part 60, appendix F.

(5) Conduct an accuracy audit of your CPMS following any 24-hour period throughout which the temperature measured by your CPMS exceeds the manufacturer's specified maximum operating temperature range, or install a new temperature sensor.

(6) If your CPMS is not equipped with a redundant temperature sensor, perform at least quarterly a visual inspection of all components of the CPMS for integrity, oxidation, and galvanic corrosion.

(c) For each pressure CPMS that is used to monitor the pressure drop across a DLA or wet scrubber, you must meet the requirements in paragraphs (a) and (c)(1) through (7) of this section.

(1) Use a pressure CPMS with a minimum accuracy of ± 5.0 percent or 0.12 kilopascals (kPa) (0.5 inches of water column (in. w.c.)), whichever is greater.

(2) Use a data recording system with a minimum resolution of one-half the required CPMS accuracy specified in paragraph (c)(1) of this section, or better.

(3) Perform an initial validation of your pressure CPMS according to the requirements in paragraph (c)(3)(i) or (ii) of this section.

(i) Place the sensor of a calibrated pressure measurement device adjacent to the sensor of your pressure CPMS in a location that is subject to the same environment as the sensor of your

pressure CPMS. The calibrated pressure measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control device that is monitored by your CPMS are operating normally, record concurrently and compare the pressure measured by your CPMS and the calibrated pressure measurement device. Using the calibrated pressure measurement device as the reference, the pressure measured by your CPMS must be within the accuracy specified in paragraph (c)(1) of this section.

(ii) Perform any of the initial validation methods for pressure CPMS specified in performance specifications for CPMS established in 40 CFR part 60, appendix B.

(4) Perform an accuracy audit of your pressure CPMS at least quarterly, according to the requirements in paragraph (c)(4)(i), (ii), or (iii) of this section.

(i) If your pressure CPMS includes a redundant pressure sensor, record three pairs of concurrent pressure measurements within a 24-hour period. Each pair of concurrent measurements must consist of a pressure measurement by each of the two pressure sensors. The minimum time interval between any two such pairs of consecutive pressure measurements is 1 hour. The measurements must be taken during periods when the process and control device that is monitored by your CPMS are operating normally. Calculate the mean of the three pressure measurement values for each pressure sensor. The mean values must agree within the required overall accuracy of the CPMS, as specified in paragraph (c)(1) of this section.

(ii) If your pressure CPMS does not include a redundant pressure sensor, place the sensor of a calibrated pressure measurement device adjacent to the sensor of your pressure CPMS in a location that is subject to the same environment as the sensor of your pressure CPMS. The calibrated pressure measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control device that is monitored by your pressure CPMS are operating normally, record concurrently and compare the pressure measured by your CPMS and the calibrated pressure measurement device. Using the calibrated pressure measurement device as the reference, the pressure measured by your CPMS must be within the accuracy specified in paragraph (c)(1) of this section.

(iii) Perform any of the accuracy audit methods for pressure CPMS specified in