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(xx) Emission testing.

(1) The owner or operator of an emission unit subject to this section shall demonstrate compliance with the applicable emissions limitations of this section by one of the following means:

- (A) Conducting periodic emissions testing in accordance with this subsection;
- (B) Conducting periodic emissions testing in accordance with the frequency, load level and other provisions of an applicable New Source Performance Standard in 40 CFR 60, except as provided in subdivision (2) of this subsection; or
- (C) Installing and operating a continuous emissions monitor for NO_x in accordance with subsection (xxx) of this section.

(2) If an owner or operator is conducting testing in accordance with subdivision (1)(B) of this subsection and the applicable New Source Performance Standard does not identify a periodic test frequency, then the provisions of subdivisions (4) and (5) of this subsection shall apply to determine the frequency of periodic emissions testing.

(3) The owner or operator of an emission unit constructed after the effective date of this section shall conduct an initial emission test to demonstrate compliance with this section no later than 12 months after initial operation. Such an initial emission test shall be performed even if such emissions unit is equipped with a continuous emissions monitor for NO_x.

(4) The owner or operator of an existing emission unit shall conduct an initial emissions test within five calendar years of the effective date of this section on a date that is no less than 57 calendar months and no more than 63 calendar months following the date of the last emission test performed pursuant to former section 22a-174-22(i) of the Regulations of Connecticut State Agencies.

(5) Following the initial emission test conducted under this section, subsequent emission tests shall be conducted no less than 57 calendar months and no more than 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier.

(6) Each emission test shall be conducted in accordance with section 22a-174-5 of the Regulations of Connecticut State Agencies and as follows:

- (A) Compliance with the emission limitations of this section shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period; or

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- (B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period, or as specified in an applicable New Source Performance Standard in 40 CFR 60.

(7) An owner or operator shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR 60, Appendix A or, for affected units, under 40 CFR 75, or under procedures in section 22a-174-5(d) of the Regulations of Connecticut State Agencies. Sampling shall be conducted when the emission unit is at normal operating temperature and is operating at or above 90 percent of maximum capacity, except as follows:

- (A) Such emission unit is subject to a permit or order designating testing at a load other than 90% of the maximum capacity;
- (B) The commissioner may approve testing of an emission unit at an alternative maximum capacity. Testing of a unit with an alternative maximum capacity shall be conducted at 90% of the alternative maximum capacity. An alternative maximum capacity may be determined on an input or output basis. An alternative maximum capacity may be designated by the commissioner if:
 - (i) Operating at or above 90 percent of maximum capacity is not technically feasible given the location, configuration or operating conditions of an emission unit, or
 - (ii) The alternative maximum capacity is more representative of the operations of the emission unit or responds to the operating conditions encountered by the emission unit; or
- (C) An emission unit that has operated in excess of 100 percent of its maximum capacity at any time since December 31, 2016 shall be tested when the emission unit is operating at or above 90 percent of its highest operating rate since December 31, 2016.

(xxx) Monitoring.

(1) The owner or operator of any emission unit that emitted more than 100 tons of NO_x from a single stack during any calendar year shall install, calibrate, maintain, operate and certify a CEM system for NO_x for each such stack in accordance with section 22a-174-4 of the Regulations of Connecticut State Agencies.

(2) If an owner or operator uses a CEM system to monitor NO_x emissions, the owner or operator shall collect quality assured CEM data for all emission unit operating conditions. Data collection shall include periods of startup or shutdown but shall not include periods of

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monitoring system malfunctions, out-of-control periods, or required monitoring system quality assurance or quality control activities, which include, as applicable, calibration checks and required zero and span adjustments.

(3) Emissions data used to determine compliance with the applicable emissions limitations of subsection (d) of this section shall not include data collected during the following periods:

- (A) Startup or shutdown, except for data from a group of emissions units that share a common stack but do not operate in the startup or shutdown mode at the same time;
- (B) Monitoring system malfunctions;
- (C) When the monitoring system is out-of-control as specified in the facility-specific monitoring plan;
- (D) Required monitoring system quality assurance or quality control activities, including calibration checks and required zero and span adjustments;
- (E) While conducting repairs of the monitoring system to correct a malfunction; or
- (F) When the emission unit is not operating.

(4) The owner or operator shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of any CEM for NO_x. Any such testing shall be conducted in accordance with a testing protocol approved by the commissioner. Any CEM for NO_x shall be installed, calibrated and operated in accordance with the performance and quality assurance specifications contained in section 22a-174-4 of the Regulations of Connecticut State Agencies and 40 CFR 60, Subpart A, Appendix B and Appendix F, or, for affected units, 40 CFR 75.