

# STATE OF CONNECTICUT

## Regulation of Environmental Protection

### Control of Sulfur Dioxide Emissions from Power Plants and Other Large Stationary Sources of Air Pollution and Control of Nitrogen Oxides Emissions.

Section 1 The regulations of Connecticut State Agencies are amended by adding new section 22a-174-19a, as follows:

#### **Sec. 22a-174-19a. Control of sulfur dioxide emissions from power plants and other large stationary sources of air pollution.**

(a) Definitions. For purposes of this section:

(1) “Affected state” has the same meaning as the term “affected states” in section 22a-174-33(a)(3) of the Regulations of Connecticut State Agencies.

(2) “Affected unit” means any emissions unit subject to the provisions of section 22a-174-22b of the Regulations of Connecticut State Agencies, the Post-2002 Nitrogen Oxides Budget Program.

(3) “Average emissions rate” means a determination of the rate of SO<sub>2</sub> emissions, measured in pounds of SO<sub>2</sub> per MMBtu, in any calendar quarter from either a single affected unit or from two or more affected units. Average emissions rate for a single unit is calculated by dividing the total quarterly SO<sub>2</sub> emissions, in pounds, from such unit by the total quarterly heat input, in MMBtu, for such unit. Average emissions rate for two or more units is calculated by dividing the total quarterly SO<sub>2</sub> emissions, in pounds, from all such units by the total quarterly heat input, in MMBtu, for all such units.

(4) “Calendar quarter” means the period of January 1 to March 31, inclusive, April 1 to June 30, inclusive, July 1 to September 30, inclusive or October 1 to December 31, inclusive.

(5) \* \* \*<sup>1</sup>

(6) “Continuous emissions monitoring system” or “CEMS” means any equipment used to sample, analyze and measure SO<sub>2</sub> emissions to provide a permanent record of such emissions expressed in pounds per MMBtu.

(7) “Emissions unit” means “emission unit” has the same meaning as in Regulations of Connecticut State Agencies section 22a-174-33(a)(7).

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<sup>1</sup> NOTE: EPA did not approve Section 22a-174-19a(a)(5) into the Connecticut State Implementation Plan. The State did not submit Section 22a-174-19a(a)(5) as part of the SIP revision because it is not applicable to the Connecticut Alternative to Best Available Retrofit Technology (BART) program.

(8) \* \* \*<sup>2</sup>

(9) "Generation period" means the period of time during which reductions in emissions of an air pollutant are implemented.

(10) "MMBtu" means million BTU of heat input.

(11) \* \* \*<sup>3</sup>

(12) "Sulfur dioxide" or "SO<sub>2</sub>" means a gas that at standard conditions has the molecular form SO<sub>2</sub>.

(13) "Sulfur dioxide Discrete Emission Reduction Credit" or "SO<sub>2</sub> DERC" means the reduction of one ton of sulfur dioxide at a stationary source during the generation period, which the commissioner has certified in writing as real, quantifiable, surplus, permanent, and enforceable. \* \* \*<sup>4</sup>.

(14) "Title IV SO<sub>2</sub> allowance" or "SO<sub>2</sub> allowance" means an authorization allocated to a Title IV source by the Administrator, pursuant to Title IV of the federal Clean Air Act (42 USC 7651d, et seq.) and 40 CFR Parts 72 and 73, to emit up to one ton of SO<sub>2</sub> during or after a specified calendar year.

(15) "Title IV source" means an affected unit that is also subject to Phase II of the acid rain control requirements set forth in Title IV of the federal Clean Air Act (42 USC 7651d, et seq.).

(b) **Applicability.** This section shall apply to the owner or operator of any affected unit.

(c) **Reserved**

(d) \* \* \*<sup>5</sup>

(e) **Sulfur dioxide emission standards and fuel sulfur limits.** The owner or operator of an affected unit shall:

(1) Combust liquid fuel, gaseous fuel or a combination of each provided that each fuel possess a fuel sulfur limit of equal to or less than 3000 ppm (0.3 % sulfur, by weight;

(2) Meet an average emission rate of equal to or less than 0.33 pounds SO<sub>2</sub> per MMBtu for each calendar quarter for an affected unit at a premises; or

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<sup>5</sup> NOTE: EPA did not approve Section 22a-174-19a(d) into the Connecticut State Implementation Plan. The State did not submit Section 22a-174-19a(d) as part of the SIP revision because it is not applicable to the Connecticut Alternative to Best Available Retrofit Technology (BART) program.

(3) Meet an average emission rate of equal to or less than 0.3 pounds SO<sub>2</sub> per MMBtu calculated for each calendar quarter, if such owner or operator averages the emissions from two or more affected units at a premises.

(f) \* \* \*<sup>6</sup>

(g) \* \* \*

(h) \* \* \*

(i) **Record keeping.**

(1) The owner or operator of an affected unit who demonstrates compliance with this section by meeting the applicable fuel sulfur limits of subsections (e)(1) of this section shall make and keep records in accordance with the following:

(A) If fuel with sulfur content not exceeding an applicable fuel sulfur limit is the only fuel purchased and combusted by an affected unit, then the owner or operator shall make and keep records that demonstrate the fuel sulfur content of each shipment of fuel received; or

(B) If fuel with sulfur content above any applicable limit is blended at the premises for combustion in an affected unit or units, the owner or operator shall make and keep daily records demonstrating that all fuel combusted at the affected unit or units meets the applicable fuel sulfur limits of subsection (e)(1) of this section. Fuel sulfur analysis shall be conducted in accordance with the American Society for Testing and Material (ASTM) test method D4294 and automatic sampling equipment shall conform to ASTM test method D4177-82, or a more recent version of the same method. (Copies of ASTM test methods referenced in this section may be obtained from the Department of Environmental Protection, Bureau of Air Management, 79 Elm Street, 5th floor, Hartford, CT 06106-5127; (860) 424-3027).

(2) The owner or operator of an affected unit who demonstrates compliance with this section by meeting the average SO<sub>2</sub> emission rate limits of subsections (e)(2) or (e)(3) of this section shall make and keep records in accordance with the following:

(A) For affected units that are also Title IV sources, hourly SO<sub>2</sub> emission rate values determined from data measured by a CEMS in accordance with the applicable provisions of 40 CFR 75;

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<sup>6</sup> NOTE: EPA did not approve Section 22a-174-19a(f) through 19a(h) into the Connecticut State Implementation Plan. The State did not submit Section 22a-174-19a(f) through (h) as part of the SIP revision because it is not applicable to the Connecticut Alternative to Best Available Retrofit Technology (BART) program.

(B) For affected units that are not Title IV sources:

(i) hourly SO<sub>2</sub> emission rate values determined from data measured by a CEMS in accordance with the applicable provisions of either 40 CFR Parts 60 or 75, or

(ii) if any affected unit does not have a CEMS in accordance with either 40 CFR Parts 60 or 75, then hourly SO<sub>2</sub> emission rate values determined from data measured by a CEMS or other monitoring system; and

(C) For all affected units, quarterly facility SO<sub>2</sub> emission rate averages, determined by dividing total quarterly SO<sub>2</sub> emissions by total quarterly heat input values for all affected units at the facility.

(3) The owner or operator of an affected unit shall keep the records specified in subdivision (1) or (2) of this subsection at the premises for a period of five years.

**(j) Reporting requirements.**

(1) The owner or operator of an affected unit for which the commissioner has issued a final Title V permit shall, as part of any compliance certification pursuant to section 22a-174-33(q)(2) of the Regulations of Connecticut State Agencies, certify in writing to the commissioner compliance with the applicable provisions of this section. Such certification shall include actual quarterly SO<sub>2</sub> emissions in tons and either average quarterly fuel sulfur content or average quarterly emission rate, whichever is applicable, for each affected unit.

(2) The owner or operator of an affected unit for which the commissioner has not issued a final Title V permit shall certify in writing to the commissioner that such owner or operator is in compliance with the applicable provisions of this section on or before March 1 of each year for the previous calendar year. Such certification shall include actual quarterly SO<sub>2</sub> emissions in tons and either average quarterly fuel sulfur content or average quarterly emission rate, whichever is applicable, for each affected unit.

**(k) Duty to comply with the most stringent standards applicable to the affected units.**

(1) Notwithstanding any provision of this section to the contrary, if the owner or operator of an affected unit is subject to a more stringent emission standard or limitation imposed by order, permit or other applicable law, such owner or operator shall comply with the most stringent emission limitation or standard.

(2) Notwithstanding any provision of this section to the contrary, if the owner or operator of an affected unit is subject to additional monitoring or reporting

requirements imposed by order, permit or other applicable law, such owner or operator shall comply with the additional monitoring or reporting requirements.