

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 2300

TABLE OF CONTENTS

CHAPTER Env-A 2300 MITIGATION OF REGIONAL HAZE

PART Env-A 2301 PURPOSE; APPLICABILITY; DEFINITIONS

Env-A 2301.01 PurposePage 1
Env-A 2301.02 Applicability Page 1
Env-A 2101.03 Definitions Page 1

PART Env-A 2302 EMISSION STANDARDS FOR MITIGATION OF REGIONAL HAZE

Env-A 2302.01 Emission Standards Applicable to Cyclone-Firing,
Wet-Bottom Boilers Page 2
Env-A 2302.02 Emission Standards Applicable to Tangential-Firing,
Dry-Bottom Boilers Page 3

PART Env-A 2303 CONTINUOUS EMISSIONS MONITORING SYSTEMS

Env-A 2303.01 Requirements for Continuous Emissions Monitoring
Systems Page 3

PART Env-A 2304 PERFORMANCE TESTING

Env-A 2304.01 Performance Testing Requirements Applicable to
Cyclone-Firing, Wet-Bottom Boilers Page 3
Env-A 2304.02 Performance Testing Requirements Applicable to
Tangential-Firing, Dry-Bottom Boilers Page 4

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CHAPTER Env-A 2300 MITIGATION OF REGIONAL HAZE

Statutory Authority: RSA 125-C:4, I(a), (b), (k)

PART Env-A 2301 PURPOSE; APPLICABILITY; DEFINITIONS

Env-A 2301.01 Purpose. The purpose of this chapter is to establish emission standards for sulfur dioxide (SO₂), nitrogen oxides (NO_x), and total suspended particulate matter (TSP) at certain fossil-fuel-fired steam generating units in order to reduce emissions that contribute to regional haze. These rules are necessary to ensure compliance with §169A of the Act and regional haze program requirements established at 40 CFR 51.308, including but not limited to the provisions for Best Available Retrofit Technology (BART).

Env-A 2301.02 Applicability. This chapter shall apply to any fossil-fuel-fired steam generating unit having a maximum heat input rate of more than 1,000 million BTUs per hour that existed as of August 7, 1977 and has either a:

- (a) Cyclone-firing, wet-bottom boiler fueled by coal or any combination of fuels using coal; or
- (b) Tangential-firing, dry-bottom boiler fueled by oil or gas or any combination of oil or gas.

Env-A 2301.03 Definitions.

- (a) “Best Available Retrofit Technology (BART)” means “best available retrofit technology” as defined in 40 CFR 51.301, namely “an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by an existing stationary facility. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and nonair quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.”
- (b) “Coal” means “coal” as defined in Env-A 1211.02.
- (c) “Gas” means “gas or gaseous fuel” as defined in Env-A 1211.02.
- (d) “Maximum heat input rate” means “maximum heat input rate” as defined in Env-A 1211.02.

- (e) “Oil” means any petroleum-based liquid fuel oil, including distillate and residual fuel oils.
- (f) “Regional haze” means “regional haze” as defined in 40 CFR 51.301, namely “visibility impairment that is caused by the emission of air pollutants from numerous sources located over a wide geographic area. Such sources include, but are not limited to, major and minor stationary sources, mobile sources, and area sources.”
- (g) “Stack test” means the sampling, analysis, and reporting of emissions from a stationary point source in accordance with testing procedures specified in Env-A 802.
- (h) “Total suspended particulate matter (TSP)” means particulate matter as measured by the high-volume method described in Appendix B of 40 CFR Part 50.
- (i) “Visibility impairment” means “visibility impairment” as defined in 40 CFR 51.301, namely “any humanly perceptible change in visibility (light extinction, visual range, contrast, coloration) from that which would have existed under natural conditions.”

PART Env-A 2302 EMISSION STANDARDS FOR MITIGATION OF REGIONAL HAZE

Env-A 2302.01 Emission Standards Applicable to Cyclone-Firing, Wet-Bottom Boilers.

- (a) For any cyclone-firing, wet-bottom boiler subject to this chapter whose maximum heat input rate is less than or equal to 3,000 million BTUs per hour, the following emission rates shall apply:
 - (1) SO₂ emissions shall not exceed limitations specified in permit conditions established in accordance with Env-A 600;
 - (2) NO_x emissions shall not exceed limitations specified in permit conditions established in accordance with Env-A 600; and
 - (3) Beginning on July 1, 2013, TSP emissions shall not exceed 0.08 lb per million BTUs, demonstrated by completion of periodic stack tests as specified in Env-A 2304.01(b) on the outlet side of the final emission control device.
- (b) For any cyclone-firing, wet-bottom boiler subject to this chapter whose maximum heat input rate is greater than 3,000 million BTUs per hour, the following emission rates shall apply:
 - (1) SO₂ emissions shall not exceed limitations specified in permit conditions established in accordance with Env-A 600;

(2) Beginning on July 1, 2013, NO_x emissions shall not exceed 0.30 lb per million BTUs on a 30-day rolling average basis as recorded by a continuous emissions monitoring system (CEMS) as specified in Env-A 2303; and

(3) Beginning on July 1, 2013, TSP emissions shall not exceed 0.08 lb per million BTUs, demonstrated by completion of periodic stack tests as specified in Env-A 2304.01(b) on the outlet side of the final emission control device.

Env-A 2302.02 Emission Standards Applicable to Tangential-Firing, Dry-Bottom Boilers. For any tangential-firing, dry-bottom boiler subject to this chapter, the following emission rates shall apply:

(a) Beginning on July 1, 2013, SO₂ emissions shall not exceed 0.50 pound (lb) per million BTUs on a 30-day rolling average basis as recorded by a CEMS as specified in Env-A 2303;

(b) NO_x emissions shall not exceed limitations specified in permit conditions established in accordance with Env-A 600; and

(c) TSP emissions shall not exceed 0.04 lb. per million BTUs, demonstrated by completion of stack tests as specified in Env-A 2304.02.

PART Env-A 2303 CONTINUOUS EMISSIONS MONITORING SYSTEMS

Env-A 2303.01 Requirements for Continuous Emissions Monitoring Systems. The owner or operator of a source whose emissions are required to be monitored and recorded by a CEMS as provided in Env-A 2302.01 or Env-A 2302.02 shall:

(a) Install, calibrate, operate, maintain, and perform quality assurance testing of the CEMS in accordance with Env-A 808; and

(b) Comply with recordkeeping requirements for CEMS specified in Env-A 903.04.

PART Env-A 2304 PERFORMANCE TESTING

Env-A 2304.01 Performance Testing Requirements Applicable to Cyclone-Firing, Wet-Bottom Boilers. For any cyclone-firing, wet-bottom boiler subject to this chapter, performance tests shall be conducted as follows:

(a) Performance testing for SO₂ emissions and NO_x emissions shall meet the requirements specified in permit conditions established in accordance with Env-A 600; and

(b) Periodic stack tests for TSP emissions shall be conducted in accordance with Env-A 802, subject to the following:

- (1) For an initial period of 3 years, stack tests shall be conducted annually, with the first stack test to be completed by June 30, 2013;
- (2) Beginning on July 1, 2015, stack tests shall be conducted every other year, with the fourth stack test to be completed by June 30, 2017; and
- (3) At any facility where an affected unit shares a common stack with a second affected unit, the stack emissions shall be tested as from one source, by either of the following methods:
 - a. With both units operating simultaneously, a stack test on the combined emissions from both units, or
 - b. With one unit operating at a time, separate stack tests on the emissions from each unit.

Env-A 2304.02 Performance Testing Requirements Applicable to Tangential-Firing, Dry-Bottom Boilers. For any tangential-firing, dry-bottom boiler subject to this chapter, performance tests shall be conducted as follows:

- (a) Performance testing for SO₂ emissions, NO_x emissions, and TSP emissions shall meet the requirements specified in permit conditions established in accordance with Env-A 600; and
- (b) Any stack test required to demonstrate compliance with this part shall be conducted in accordance with Env-A 802.