

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

TABLE OF CONTENTS

CHAPTER Env-A 1300 NITROGEN OXIDES (NO<sub>x</sub>) REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT)

PART Env-A 1301 PURPOSE, APPLICABILITY, EXEMPTIONS, AND REFERENCES

- Env-A 1301.01 Purpose
- Env-A 1301.02 Applicability
- Env-A 1301.03 Exemptions

PART Env-A 1302 DEFINITIONS

- Env-A 1302.01 Actual Mole Ratio
- Env-A 1302.02 Add-On Control
- Env-A 1302.03 Asphalt
- Env-A 1302.04 Auxiliary Boiler
- Env-A 1302.05 Auxiliary Fuel
- Env-A 1302.06 Classifiable Process or Device
- Env-A 1302.07 Coal
- Env-A 1302.08 Cogeneration Facility
- Env-A 1302.09 Coke
- Env-A 1302.10 Combined Cycle Combustion Turbine
- Env-A 1302.11 Commercial Fuel
- Env-A 1302.12 Compression Ignition
- Env-A 1302.13 Cyclone Firing
- Env-A 1302.14 Dry Bottom
- Env-A 1302.15 Electric Generating Utility
- Env-A 1302.16 Emergency Generator
- Env-A 1302.17 Emergency
- Env-A 1302.18 Face Firing
- Env-A 1302.19 Fuel-Bound Nitrogen
- Env-A 1302.20 Gas or Gaseous Fuel
- Env-A 1302.21 Industrial Boiler
- Env-A 1302.22 Internal Combustion Engine
- Env-A 1302.23 Lean Burn Engine
- Env-A 1302.24 Limited At All Times
- Env-A 1302.25 Liquid Petroleum Gas
- Env-A 1302.26 Load Shaving Unit
- Env-A 1302.27 Low-NO<sub>x</sub> Emitting Process
- Env-A 1302.28 Manufacturing Process
- Env-A 1302.29 Maximum Allowable Emission Rate
- Env-A 1302.30 Maximum Heat Input Rate
- Env-A 1302.31 Miscellaneous Stationary Source
- Env-A 1302.32 Mole
- Env-A 1302.33 Natural Gas
- Env-A 1302.34 Nitrogen Oxides (NO<sub>x</sub>)
- Env-A 1302.35 Normalized Stoichiometric Ratio (NSR)
- Env-A 1302.36 NO<sub>x</sub> Control Technique
- Env-A 1302.37 Ozone Season
- Env-A 1302.38 RACT Order
- Env-A 1302.39 Rated Brake Horsepower (bhp)
- Env-A 1302.40 Regenerative Cycle Combustion Turbine
- Env-A 1302.41 Repowering
- Env-A 1302.42 Rich Burn Engine
- Env-A 1302.43 Simple Cycle Combustion Turbine

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- Env-A 1302.44 Shaker Grate
- Env-A 1302.45 Small Power Production Facility
- Env-A 1302.46 Spark Ignition
- Env-A 1302.47 Stationary Combustion Engine
- Env-A 1302.48 Stationary Grate
- Env-A 1302.49 Stationary Internal Combustion Engine
- Env-A 1302.50 Steam Electric Boiler
- Env-A 1302.51 Steam Generating Unit
- Env-A 1302.52 Stoker
- Env-A 1302.53 Tangential Firing
- Env-A 1302.54 Temporary Boiler
- Env-A 1302.55 Theoretical Potential Emissions
- Env-A 1302.56 Traveling Grate
- Env-A 1302.57 Unclassifiable Process or Device
- Env-A 1302.58 Utility Boiler
- Env-A 1302.59 Wet Bottom

### PART Env-A 1303 UTILITY BOILERS

- Env-A 1303.01 Applicability
- Env-A 1303.02 Definitions: Startup, Shutdown, and Low-Load Operation Periods
- Env-A 1303.03 Work Practice Standard; Performance Tune-Ups
- Env-A 1303.04 Recordkeeping for Performance Tune-Ups
- Env-A 1303.05 RACT Requirements
- Env-A 1303.06 RACT Requirements: Wet-Bottom Utility Boilers Firing Coal
- Env-A 1303.07 RACT Requirements: Dry-Bottom Utility Boilers Firing Coal and/or Oil
- Env-A 1303.08 RACT Requirements: Utility Boilers Firing Oil, Gas, and/or Wood
- Env-A 1303.09 Retiring or Repowering Utility Boilers

### PART Env-A 1304 STEAM ELECTRIC BOILERS

- Env-A 1304.01 Applicability
- Env-A 1304.02 Work Practice Standard; Performance Tune-Ups
- Env-A 1304.03 RACT Requirements

### PART Env-A 1305 INDUSTRIAL BOILERS

- Env-A 1305.01 Applicability
- Env-A 1305.02 Work Practice Standard; Performance Tune-Ups
- Env-A 1305.03 RACT Requirements for Industrial Boilers with Heat Input Rates less than 100 Million Btu Per Hour
- Env-A 1305.04 RACT Requirements: Dry Bottom Industrial Boilers Firing Coal and/or Oil
- Env-A 1305.05 RACT Requirements: Boilers Firing Oil Exclusively
- Env-A 1305.06 RACT Requirements: Boilers Firing Oil and Gas
- Env-A 1305.07 RACT Requirements: Boilers Firing Gas Exclusively
- Env-A 1305.08 RACT Requirements: Boilers Firing Wood
- Env-A 1305.09 RACT Requirements for Industrial Boilers with Heat Input Rates of 100 Million Btu Per Hour or More
- Env-A 1305.10 RACT Requirements: Wet-Bottom Industrial Boilers Firing Coal
- Env-A 1305.11 RACT Requirements: Dry-Bottom Industrial Boilers Firing Coal and/or Oil
- Env-A 1305.12 RACT Requirements: Industrial Boilers Firing Oil and/or Gas
- Env-A 1305.13 RACT Requirements: Industrial Boilers Firing Gas Exclusively
- Env-A 1305.14 RACT Requirements: Boilers Firing Wood

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

### PART Env-A 1306 STATIONARY COMBUSTION TURBINES

- Env-A 1306.01 Applicability
- Env-A 1306.02 Emission Standards for Stationary Combustion Turbines Constructed After May 27, 1999
- Env-A 1306.03 Emission Standards for Stationary Combustion Turbines Constructed on or Before May 27, 1999
- Env-A 1306.04 Emission Standards for Stationary Combustion Turbines Used as Load Shaving Units

### PART Env-A 1307 STATIONARY INTERNAL COMBUSTION ENGINES

- Env-A 1307.01 Applicability
- Env-A 1307.02 Emission Standards for Stationary Internal Combustion Engines Not Subject to New Source Performance Standards
- Env-A 1307.03 Emission Standards for Stationary Internal Combustion Engines Subject to New Source Performance Standards

### PART Env-A 1308 ASPHALT PLANT ROTARY DRYERS

- Env-A 1308.01 Applicability
- Env-A 1308.02 Definitions
- Env-A 1308.03 Emission Standards for Asphalt Plant Dryers

### PART Env-A 1309 INCINERATORS

- Env-A 1309.01 Applicability
- Env-A 1309.02 Definitions
- Env-A 1309.03 Emission Standards for Incinerators

### PART Env-A 1310 WALLBOARD MANUFACTURING FACILITIES

- Env-A 1310.01 Applicability
- Env-A 1310.02 Emission Standards for Wallboard Manufacturing Facilities
- Env-A 1310.03 Emission Standards for Wallboard Manufacturing Facilities Firing Natural Gas
- Env-A 1310.04 Emission Standards for Wallboard Manufacturing Facilities Firing Oil

### PART Env-A 1311 EMERGENCY GENERATORS – STATIONARY INTERNAL COMBUSTION ENGINES AND STATIONARY COMBUSTION TURBINES

- Env-A 1311.01 Applicability
- Env-A 1311.02 Operating Hours: Limit, Consequences of Exceeding Limit
- Env-A 1311.03 Control Requirements for Stationary Combustion Turbines
- Env-A 1311.04 Control Requirements for Stationary Internal Combustion Engines Having Manual Adjustment Capabilities
- Env-A 1311.05 Control Requirements and Emission Limits for Stationary Internal Combustion Engines Not Having Manual Adjustment Capabilities
- Env-A 1311.06 Calculating Emissions

### PART Env-A 1312 AUXILIARY BOILERS

- Env-A 1312.01 Applicability
- Env-A 1312.02 Emission Standards for Auxiliary Boilers
- Env-A 1312.03 Calculating Emissions

### PART Env-A 1313 MISCELLANEOUS STATIONARY SOURCES

- Env-A 1313.01 Emission Standards and Control Options for Miscellaneous Stationary Sources

### PART Env-A 1314 RACT COMPLIANCE

- Env-A 1314.01 Testing, Recordkeeping, and Recording for NO<sub>x</sub> RACT Compliance
- Env-A 1314.02 CEM Requirements for NO<sub>x</sub>
- Env-A 1314.03 Alternatives to Meeting Specified RACT Emission Limits
- Env-A 1314.04 Emissions Averaging for Multiple Sources Under Common Ownership
- Env-A 1314.05 Emissions Averaging Equation
- Env-A 1314.06 Seasonal Control of NO<sub>x</sub> Emissions

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

### PART Env-A 1315 NO<sub>x</sub> RACT ORDERS

- Env-A 1315.01 Definitions
- Env-A 1315.02 Requests for NO<sub>x</sub> RACT Orders; Initial Determinations Regarding Sufficiency
- Env-A 1315.03 Final Determinations Regarding Sufficiency; Proposed NO<sub>x</sub> RACT Orders
- Env-A 1315.04 Information Required for NO<sub>x</sub> RACT Order Request
- Env-A 1315.05 Public Notice; Opportunity for Comment
- Env-A 1315.06 Issuance of NO<sub>x</sub> RACT Order

#### REVISION NOTE:

Document #9803, effective 10-31-10, readopted with amendments and renumbered rules in Env-A 1211 entitled “Nitrogen Oxides(NO<sub>x</sub>)” as rules in Env-A 1300, entitled “Nitrogen Oxides(NO<sub>x</sub>) Reasonably Available Control Technology (RACT)”.

Document #9803 supersedes all prior filings for rules in the former Env-A 1211. The filings prior to Document #9803 affecting rules in the former Env-A 1211 include the following documents:

- #5826, eff 5-20-94
- #6506-B, eff 5-1-97
- #7787, eff 10-31-02
- #8234, eff 12-22-04
- #9119-B, eff 4-3-08

The former Env-A 1211.01, Env-A 1211.12 through Env-A 1211.18, and Env-A 1211.20 had expired in their entirety on 5-20-00 until adopted again by Document #7787, eff 10-31-02.

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

CHAPTER Env-A 1300 NITROGEN OXIDES (NO<sub>x</sub>) REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT)

Statutory Authority: RSA 125-C:4

PART Env-A 1301 PURPOSE, APPLICABILITY, EXEMPTIONS, AND REFERENCES

Env-A 1301.01 Purpose. The purpose of this chapter is to establish reasonably available control technology (RACT) standards for certain NO<sub>x</sub>-emitting sources located in New Hampshire, to comply with sections 172(c)(1) and 182(f) of the Clean Air Act (Act).

Source. (See Revision Note (RN) at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1301.02 Applicability.

(a) The requirements in Env-A 1300, as effective on October 31, 2010, shall not relieve any source that was subject to any version of Env-A 1211 in effect from May 20, 1994 through October 30, 2010 from its obligation to have been in compliance with applicable rules then in effect.

(b) Utility boiler(s) shall be subject to the requirements of Env-A 1303 if the combined maximum heat input rate of such boiler(s) exceeds 50 million British Thermal units (Btu) per hour at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(c) Steam electric boiler(s) shall be subject to the requirements of Env-A 1304 if the combined maximum heat input rate of such boiler(s) exceeds 50 million Btu per hour at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(d) Industrial boiler(s) shall be subject to the requirements of Env-A 1305 if the combined maximum heat input rate of such boiler(s) exceeds 50 million Btu per hour at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(e) Stationary combustion turbine(s), except for stationary combustion turbines used as emergency generators, shall be subject to the requirements of Env-A 1306, if the combined theoretical potential emissions from all devices and processes located at the stationary source exceed 50 tons per calendar year of NO<sub>x</sub> at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(f) Stationary internal combustion engine(s), except for stationary internal combustion engines used as emergency generators, shall be subject to the requirements of Env-A 1307 if the combined maximum heat input rate of such engine(s) exceeds 4.5 million Btu per hour at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(g) Asphalt plant rotary dryer(s) shall be subject to the requirements of Env-A 1308 if the combined maximum heat input rate of such dryer(s) exceeds 26.2 million Btu per hour at any time after December 31, 1989.

(h) Incinerator(s), except for incinerators combusting sewage sludge, shall be subject to the requirements of Env-A 1309 if the combined processing capacity of such incinerator(s) exceeds 85 tons per day or more of waste at any time after December 31, 1989.

(i) Wallboard dryer(s), calcining mill(s), calciner(s), and gypsum rock dryer(s) shall be subject to the requirements of Env-A 1310 if the combined theoretical potential emissions of such wallboard dryer(s), calcining mill(s), calciner(s), and gypsum rock dryer(s) equal or exceed 50 tons per calendar year of NO<sub>x</sub> at any time after December 31, 1989 and the permitting applicability levels specified in Env-A 607.01 are met.

(j) If the combined theoretical potential emissions from all devices and processes located at a stationary source exceed 50 tons per calendar year of NO<sub>x</sub> at any time after December 31, 1989, all stationary internal combustion engines or stationary combustion turbines used as emergency generators at that source

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

which meet the permitting applicability levels specified in Env-A 607.01 shall be subject to the requirements of Env-A 1311 unless:

- (1) All such emergency generators are limited to less than 500 hours of operation during any consecutive 12-month period; and
- (2) The combined theoretical potential emissions of NO<sub>x</sub> from all such emergency generators are limited to less than 25 tons for any consecutive 12-month period by permit conditions.

(k) Auxiliary boiler(s) shall be subject to the requirements of Env-A 1312 if the combined theoretical potential emissions from all devices and processes located at the stationary source exceed 50 tons per calendar year of NO<sub>x</sub> at any time after December 31, 1989.

(l) Any miscellaneous stationary source at a stationary source having combined theoretical potential emissions from all devices and processes which equal or exceed 50 tons per calendar year of NO<sub>x</sub> at any time after December 31, 1989 shall be subject to the requirements of Env-A 1313, except for NO<sub>x</sub>-emitting devices that have implemented Best Available Control Technology (BACT) for NO<sub>x</sub>, or Lowest Achievable Emission Rate (LAER) for NO<sub>x</sub> at any time after December 31, 1989 pursuant to a federally enforceable permit. Any device or group of devices at a stationary source which meet the applicability criteria of (b) through (k), above, shall be subject to the requirements of the applicable parts.

(m) Any stationary source having combined theoretical potential emissions of 50 tons or more of NO<sub>x</sub> during any consecutive 12-month period but whose actual NO<sub>x</sub> emissions have not equaled or exceeded 50 tons during any consecutive 12-month period since January 1, 1989, shall be subject to the requirements of this chapter, unless the following requirements are met:

- (1) The combined actual NO<sub>x</sub> emissions from NO<sub>x</sub> emitting devices or processes are limited to less than 50 tons during any consecutive 12-month period by an enforceable permit or consent decree; and
- (2) The source has been and remains in compliance with the emission limit or operating conditions specified in a:
  - a. Permit issued by the department or by EPA;
  - b. Consent decree entered into with the department or EPA; or
  - c. Court order.

(n) Once a stationary source becomes subject to the requirements of this chapter, the source shall remain subject to these requirements even if emissions subsequently fall below the applicability levels specified in (b) through (l), above.

(o) If a stationary source fails to comply with the emission limit or operating conditions of a permit or consent decree, or court order referred to in (m), above, the source shall immediately become subject to the applicable requirements of this chapter.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1301.03 Exemptions. The following sources shall be exempt from this chapter:

(a) Any stationary source having combined theoretical potential emissions of less than 50 tons of NO<sub>x</sub> during any consecutive 12-month period since January 1, 1989;

(b) Temporary boilers that have theoretical potential emissions of less than 50 tons of NO<sub>x</sub> during any consecutive 12-month period; and

(c) Stationary combustion turbines mounted on aircraft.

Source. #12584, eff 8-15-18

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

### PART Env-A 1302 DEFINITIONS

Env-A 1302.01 “Actual mole ratio” means the measured number of moles of one chemical divided by the measured number of moles of a second chemical in the same chemical system.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.02 “Add-on control” means a device or process used to collect, remove, convert, or destroy gaseous NO<sub>x</sub> pollutants resulting from the combustion of fuel or waste before these pollutants are released into the ambient air.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.03 “Asphalt” means a dark-brown to black cementitious material that is solid, semi-solid, or liquid in consistency, in which the primary constituents are bitumens which occur in nature as such or are obtained as residue in refining petroleum.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.04 “Auxiliary boiler” means a boiler operated to provide steam and house heat only when the primary steam or power source for a facility is not available for use. The term does not include emergency generators or load shaving units.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.05 “Auxiliary fuel” means fuel, other than waste materials, used in an incinerator or resource recovery facility to attain temperatures sufficiently high enough to dry and ignite waste materials, to maintain ignition, or to drive the complete combustion of combustible solids, vapors, or gaseous substances, or any combination thereof.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.06 “Classifiable process or device” means any process or device that emits NO<sub>x</sub> and is included in one of the categories listed in Env-A 1301.02(b) through (k), but is not subject to the requirements of Env-A 1303 through Env-A 1312 because such process or device falls below the applicability threshold.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.07 “Coal” means all solid fuels classified as anthracite, bituminous, lignite, or subbituminous according to the ASTM Standard Classification of Coals by Rank, ASTM D 388, coal refuse, and petroleum coke. The term includes coal-derived synthetic fuels, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1302.08 “Cogeneration facility” means a facility that generates steam for the purpose of supplying heat or energy to a manufacturing process in the host facility, and power for sale to an electric utility.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1302.09 “Coke” means a fused, cellular, porous structure that remains after free moisture and the major portion of the volatile materials have been distilled from bituminous coal and other carbonaceous material by the application of heat in the absence of air or in the presence of a limited supply of air.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.10 “Combined cycle combustion turbine” means any stationary gas or oil-fired turbine which recovers heat from the turbine exhaust gases to heat water or generate steam.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.11 “Commercial fuel” means solid, liquid, or gaseous fuel normally produced or manufactured, and sold for the purpose of creating useful heat or mechanical energy.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.12 “Compression ignition” means an ignition process used in a stationary internal combustion engine that is not a spark ignition process, as defined in Env-A 1302.47, below.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.13 “Cyclone firing” means a fuel-firing process using one or more horizontal cylinders to burn fuel under conditions of high rates of heat release, low rates of heat absorption by the cylinder walls, with centrifugal action imparted to the fuel particles by air entering the cylinder. The combustion gases exiting from the cylinders turn 90 degrees to go up through the boiler. The horizontal cylinders are attached to the bottom of the furnace with one or more of the cylinders arranged on one furnace wall or on 2 opposed furnace walls.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.12)

Env-A 1302.14 “Dry bottom” means the boiler has a furnace bottom temperature below the ash melting point, and the bottom ash is removed as a solid.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.13)

Env-A 1302.15 “Electric generating utility” means a utility which is regulated by the public utilities commission and which generates electricity for sale.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.14)

Env-A 1302.16 “Emergency generator” means “emergency generator” as defined in Env-A 101.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.15)

Env-A 1302.17 “Emergency” means an unforeseeable condition that is beyond the control of the owner or operator of an emergency generator that:

- (a) Results in an interruption of electrical power from the electricity supplier to the premises;
- (b) Requires an interruption of electrical power from the electricity supplier to the premises in order to enable the owner or operator to repair damage from fire, flood, or any other catastrophic event, natural or man-made; or

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(c) Requires operation of an emergency generator to minimize damage from fire, flood, or any other catastrophic event, natural or man-made.

Source. #12584, eff 8-15-18

Env-A 1302.18 “Face firing” means a furnace firing design in which the burners are mounted in an array on one or more vertical walls, including:

- (a) Opposed firing, where the burners are mounted on 2 opposite walls; and
- (b) Single-wall firing, where the burners are mounted on only one wall.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.17)

Env-A 1302.19 “Fuel-bound nitrogen” means the nitrogen content, in weight fraction, of the fuel.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.18)

Env-A 1302.20 “Gas or gaseous fuel” means natural gas, liquid petroleum gas, or gaseous substances produced synthetically from coal or oil, or derived from the decomposition of organic matter, or derived as a by-product of a manufacturing process, and which can be used to create useful heat or mechanical energy, or a combination thereof.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.19)

Env-A 1302.21 “Industrial boiler” means a steam generating unit that generates steam to supply power or heat or both to an industrial, institutional, or commercial operation, excluding boilers used by electric utilities, small power producers, and cogenerators to generate electricity.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.20)

Env-A 1302.22 “Internal combustion engine” means any engine in which power, produced by heat or pressure or both, is developed in the engine cylinder(s) by burning a mixture of air and fuel and is subsequently converted to mechanical work by means of one or more pistons.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.21)

Env-A 1302.23 “Lean burn engine” means “lean burn engine” as defined in 40 CFR 60, Subpart JJJJ, as reprinted in Appendix B.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.22)

Env-A 1302.24 “Limited at all times” means that the NO<sub>x</sub> emissions of a source or device does not exceed the prescribed NO<sub>x</sub> emission limit over the averaging time specified in the applicable section of this part during the entire period of time that the source or device operates.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.23)

Env-A 1302.25 “Liquid petroleum gas” means a flammable mixture of hydrocarbon gases derived from petroleum refining or natural gas processing that meets the ASTM Standard Specification for Liquid Petroleum Gases, D1835-97.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.24)

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1302.26 “Load shaving unit” means a device that operates for other than an emergency to generate electricity for sale or use on-site, including but not limited to stationary combustion turbines or stationary internal combustion engines.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.25)

Env-A 1302.27 “Low-NOx emitting process” means a process that results in NOx emission reductions which constitute NOx RACT as approved by the division and EPA pursuant to Env-A 1314.05.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.26)

Env-A 1302.28 “Manufacturing process” means any process directly related to the manufacturing of intermediate or finished goods or supplies, or any combination thereof, whose operations result in pollutant emissions to the ambient air from process or manufacturing equipment or machinery directly or through exhaust or ventilating systems, including elevated stacks.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.27)

Env-A 1302.29 “Maximum allowable emission rate” means the maximum amount of an air contaminant which is allowed to be emitted into the ambient air during a prescribed interval of time.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.28)

Env-A 1302.30 “Maximum heat input rate” means the maximum steady state fuel firing rate, in Btu per hour of gross heat input, of fuel burning equipment as determined in the design rating of the equipment manufacturer and the characteristics of the fuel-burning devices.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.29)

Env-A 1302.31 “Miscellaneous stationary source” means that portion of a stationary source, as defined in Env-A 101.187, consisting of devices and processes that are:

- (a) Unclassifiable; or
- (b) Classifiable.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.30)

Env-A 1302.32 “Mole” means the specific amount of chemical substance in a system proportional to its number of molecules, calculated as the mass of the chemical divided by its molecular weight.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.31)

Env-A 1302.33 “Natural gas” means a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.32)

Env-A 1302.34 “Nitrogen oxides (NOx)” means all oxides of nitrogen, except nitrous oxide, as measured in accordance with test methods specified in Env-A 800 and approved by EPA.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.35)

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1302.35 “Normalized stoichiometric ratio (NSR)” means the actual mole ratio of urea to NO<sub>x</sub> divided by the theoretical stoichiometric ratio, which is 0.5 for the reaction between urea and NO<sub>x</sub>.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.33)

Env-A 1302.36 “NO<sub>x</sub> control technique” means a system, design modification, or use of equipment and technology to reduce NO<sub>x</sub> emissions to the ambient air from NO<sub>x</sub>-emitting devices or processes, including combustion modifications, low-NO<sub>x</sub> burners, overfire air systems, low excess air systems, flue gas recirculation, natural gas reburn, burners out of service, fuel switching, selective catalytic reduction, selective non-catalytic reduction, or other device or procedure approved pursuant to Env-A 1315.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1202.34)

Env-A 1302.37 “Ozone season” means the period between March 1 and September 30, inclusive.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.36)

Env-A 1302.38 “RACT order” means a written order, providing for inventories and emission limits for NO<sub>x</sub>-emitting devices or processes and RACT-compliance procedures and schedules, issued by the division to a miscellaneous stationary source or a stationary source seeking alternative RACT emission limits pursuant to Env-A 1314.04.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.39 “Rated brake horsepower (bhp)” means the brake horsepower rating specified by the manufacturer and listed on the nameplate.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.40 “Regenerative cycle combustion turbine” means any stationary gas or oil-fired turbine that recovers heat from the turbine exhaust gases to preheat inlet combustion air to the turbine.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.41 “Repowering” means the replacement or conversion of an existing emissions unit with a new or converted unit which results in lower emission rates of NO<sub>x</sub>.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.42 “Rich burn engine” means “rich burn engine” as defined in 40 CFR 60 subpart JJJJ, as reprinted in Appendix B.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.43 “Simple cycle combustion turbine” means any stationary gas or oil-fired turbine that does not recover heat from the turbine exhaust gases to preheat the inlet combustion air to the turbine, heat water, or generate steam.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1302.44 “Shaker grate” means a grate that mechanically oscillates or vibrates during loading of solid fuel to assist in the introduction of the fuel into the combustion zone, and in removing accumulation of fuel particle deposits on the grate surface. The term includes vibrating grate.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.45 “Small power production facility” means a power production facility that is designed for or capable of operating at a capacity of less than 30 megawatts and is not a cogeneration facility.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.46 “Spark ignition” means “spark ignition” as defined in 40 CFR 60, subpart IIII, as reprinted in Appendix B.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1302.47 “Stationary combustion turbine” means any simple cycle combustion turbine, regenerative cycle combustion turbine, or any combustion turbine portion of a combined cycle steam/ electric generating system that is not self-propelled, but which can be mounted on a vehicle for portability.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.46)

Env-A 1302.48 “Stationary grate” means a grate that is permanently affixed during normal boiler operation.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.47)

Env-A 1302.49 “Stationary internal combustion engine” means “stationary internal combustion engine” as defined in 40 CFR 60, subpart IIII, as reprinted in Appendix B.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.48)

Env-A 1302.50 “Steam electric boiler” means a steam generating unit, as defined in Env-A 1302, that is constructed and operated for the purpose of supplying more than one-third of its potential electrical output to any utility power distribution system for sale which is located at a cogeneration or small power production facility.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.49)

Env-A 1302.51 “Steam generating unit” means a device that combusts any fuel to produce steam or to heat water or any other heat transfer medium.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.50)

Env-A 1302.52 “Stoker” means a furnace design that incorporates a feeding mechanism, fuel distribution, and ash residue collection system for the purpose of introducing solid fuel into the combustion zone of the furnace by feeding the fuel onto a grate.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.51)

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1302.53 “Tangential firing” means a boiler firing design where the burners and air nozzles are mounted in each corner of the furnace chamber where the vertical furnace walls meet. Both the fuel and air are directed from the furnace corners along a line tangential to a circle lying in a horizontal plane of the furnace.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.52)

Env-A 1302.54 “Temporary boiler” means “temporary boiler” as defined in 40 CFR 63, subpart JJJJJ, as reprinted in Appendix B.

Source. #12584, eff 8-15-18

Env-A 1302.55 “Theoretical potential emissions” means the quantity of nitrogen oxides that could be emitted by a source, prior to the application of add-on controls, based on either of the following:

- (a) Continuous operation of 8760 hours per year at the maximum heat input rate of the source; or
- (b) Hours of operation, process conditions, or both that are limited by the conditions of a federally enforceable permit.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.53)

Env-A 1302.56 “Traveling grate” means a grate designed to move at a constant velocity during the loading of solid fuel to assist in the introduction of fuel into the combustion zone.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.54)

Env-A 1302.57 “Unclassifiable process or device” means any process or device that emits NO<sub>x</sub> but is not included in any of the categories listed in Env-A 1301.02(b) through (l).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.55)

Env-A 1302.58 “Utility boiler” means a steam generating unit that is constructed and operated for the purpose of supplying more than one-third of its potential electrical output capacity to any utility power distribution system for sale, except for steam electric boilers, as defined in Env-A 1302.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.56)

Env-A 1302.59 “Wet bottom” means the boiler has a furnace bottom temperature above the ash melting point and the bottom ash is removed as a liquid.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1302.57)

### PART Env-A 1303 UTILITY BOILERS

Env-A 1303.01 Applicability. All utility boilers meeting the applicability criteria of Env-A 1301.02(b) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1303.02 Definitions: Startup, Shutdown, and Low-Load Operation Periods. For purposes of this part, the following definitions shall apply:

- (1) “Startup” means the period beginning when fuel is first fired in a boiler and ending when the ammonia injection permissive temperature is met in the selective catalytic reduction (SCR);

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (2) “Shutdown” means the period beginning when the SCR temperature first drops below the ammonia injection permissive temperature and ending when fuel is no longer fired in the boiler; and
- (3) “Low-load operation” means the operation of a boiler at load levels that result in flue gas temperature at the SCR inlet below the SCR functioning temperature.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1303.03 Work Practice Standard; Performance Tune-Ups. The owner or operator of one or more utility boiler(s) having a heat input rate of at least 5 million Btu per hour but less than 50 million Btu per hour per boiler shall, at least once every 12 months:

- (a) Conduct a performance tune-up on each such boiler:
  - (1) Using the procedures specified in 40 CFR 63, Subpart JJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, or 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters;
  - (2) Burning the type of fuel, or fuels in the case of boilers that routinely burn two types of fuels at the same time, that provide the majority of the heat input to the boiler over the 12 months prior to the tune-up; and
  - (3) Within 30 days of startup, if the unit is not operating on the date by which a tune-up is required; and
- (b) Perform gaseous concentration measurements for each such boiler in accordance with NOx RACT testing, as specified in Env-A 800.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1303.04 Recordkeeping for Performance Tune-Ups.

- (a) The owner or operator of one or more utility boiler(s) with a heat input rate of at least 5 million Btu per hour but less than 50 million Btu per hour per boiler shall maintain, in a format that can be retained unaltered for the time period specified in Env-A 902, the following information for each performance tune-up:
  - (1) The identification of the boiler;
  - (2) The date(s) on which the tune-up was conducted;
  - (3) The name(s), title(s), and affiliation(s) of the individual(s) who conducted the tune-up;
  - (4) The concentrations of NOx in the effluent stream, in parts-per-million by volume, (ppmv), measured at high fire or typical operating load, before and after the tune-up of the boiler;
  - (5) The concentration of CO in the effluent stream, in ppmv, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler;
  - (6) A description of any corrective actions taken as a part of the tune-up of the boiler; and
  - (7) For boilers capable of using more than one type of fuel, the fuel burned in the boiler during the tune-up and the type and amount of fuel used over the 12 months prior to the tune-up, provided that for units sharing a fuel meter, the allocation of fuel between those units may be estimated.

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (b) Concentration measurements may be taken by either a dry or wet basis, provided that:
  - (1) The same basis is used before and after the tune-up; and
  - (2) All gases are measured using the same basis.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.03)

Env-A 1303.05 RACT Requirements. Each utility boiler having a heat input rate of at least 50 million Btu per hour shall comply with the applicable NOx RACT requirements specified in Env-A 1303.05 through Env-A 1303.07.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.04)

Env-A 1303.06 RACT Requirements: Wet-Bottom Utility Boilers Firing Coal. The NOx RACT requirements for wet-bottom utility boilers firing coal, whether by itself or in combination with any other fuel(s) shall be as follows:

(a) For tangential or face-fired boilers, an emission limit of 1.0 lb. per million Btu, based on a 24-hour calendar day average;

(b) For cyclone-fired boilers having a maximum nameplate capacity of less than 320 megawatts and equipped with a SCR system an emission limit of:

(1) 0.22 lb. per million Btu, based on a 24-hour calendar day average, except as provided in (2) below; or

(2) 4.0 tons per day on any calendar day during which a startup, shutdown or low-load operation occurs; and

(c) For cyclone-fired boilers having a maximum nameplate capacity of equal to or greater than 320 megawatts and equipped with a SCR system an emission limit of:

(1) 0.22 lb. per million Btu, based on a 24-hour calendar day average, except as provided in (2) below; or

(2) 11.5 tons per day on any calendar day during which a startup, shutdown or low-load operation occurs.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.05)

Env-A 1303.07 RACT Requirements: Dry-Bottom Utility Boilers Firing Coal and/or Oil. For dry-bottom utility boilers that fire, or that are capable of firing, coal or oil, or any combination thereof, the NOx RACT requirements shall be as follows:

(a) For tangential-fired boilers, an emission limit of 0.38 lb. per million Btu, based on a 24-hour calendar day average;

(b) For face-fired boilers, an emission limit of 0.50 lb. per million Btu, based on a 24-hour calendar day average; and

(c) For stoker-fired boilers, an emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.06)

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

### Env-A 1303.08 RACT Requirements: Utility Boilers Firing Oil, Gas, and/or Wood.

(a) For utility boilers that fire, or that are capable of firing, oil or gas, or any combination thereof, the NO<sub>x</sub> RACT requirements shall be as follows:

(1) For tangential or face-fired boilers when firing exclusively oil, an emission limit of 0.35 lb. per million Btu, based on a 24-hour calendar day average;

(2) For face-fired boilers when firing gas or any combination of oil and gas, an emission limit of 0.25 lb. per million Btu based on a 24-hour calendar day average; and

(3) For tangential-fired boilers when firing gas or any combination of oil and gas, an emission limit of 0.25 lb. per million Btu based on a 24-hour calendar day average.

(b) For boilers that fire gas exclusively, an emission limit of 0.20 lb. per million Btu, based on an hourly average, for tangential or face-fired boilers.

(c) For boilers that fire wood fuel or that are capable of firing a combination of wood fuel and oil:

(1) For boilers equipped with a traveling, shaker, or vibrating grate, an emission limit of 0.33 lb. per million Btu, based on a 24-hour calendar day average; and

(2) For boilers equipped with a stationary grate, an emission limit of 0.25 lb. per million Btu, based on a 24-hour calendar day average.

(d) Utility boilers that fire any fuel or combination of fuels excluding coal shall be limited at all times to the equivalent of 3.8 tons of NO<sub>x</sub> per 24-hour calendar day.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.07)

Env-A 1303.09 Retiring or Repowering Utility Boilers. Nothing in this chapter shall prohibit the retiring or repowering of a utility boiler at any time after the effective date of this chapter. Utility boilers shall remain subject to the applicable NO<sub>x</sub> RACT emission limits specified in this chapter, regardless of a decision to retire or repower the boiler.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1303.08)

### PART Env-A 1304 STEAM ELECTRIC BOILERS

Env-A 1304.01 Applicability. All steam electric boilers that meet the applicability criteria of Env-A 1301.02(c) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1304.02 Work Practice Standard; Performance Tune-Ups. The owner or operator of one or more steam electric boiler(s) having a heat input rate of at least 5 million Btu per hour but less than 50 million Btu per hour per boiler shall comply with Env-A 1303.02 and Env-A 1303.03.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

### Env-A 1304.03 RACT Requirements.

(a) Any steam electric boiler having a heat input rate of at least 50 million Btu per hour but less than 100 million Btu per hour shall comply with the applicable NO<sub>x</sub> RACT requirements specified in Env-A 1305.03, for the applicable fuel type and fuel-firing design.

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(b) Any steam electric boiler having a heat input rate of 100 million Btu per hour or more shall comply with the applicable NOx RACT requirements specified in Env-A 1305.09 for the applicable fuel type and fuel-firing design.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1304.04)

### PART Env-A 1305 INDUSTRIAL BOILERS

Env-A 1305.01 Applicability. All industrial boilers that meet the applicability criteria of Env-A 1301.02(d) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1305.02 Work Practice Standard; Performance Tune-Ups. The owner or operator of one or more industrial boiler(s) having a heat input rate of at least 5 million Btu per hour but less than 50 million Btu per hour per boiler shall comply with Env-A 1303.02 and Env-A 1303.03.

Source. #12584, eff 8-15-18

Env-A 1305.03 RACT Requirements for Industrial Boilers with Heat Input Rates Less than 100 Million Btu Per Hour.

(a) Any industrial boiler having a heat input rate of at least 50 million Btu per hour but less than 100 million Btu per hour shall comply with the applicable NOx RACT requirements specified in Env-A 1305.04 through Env-A 1305.08.

(b) For purposes of Env-A 1305.05 through Env-A 1305.07, NOx RACT control technology shall be:

- (1) The installation, operation, and maintenance of low NOx burners (LNB); or
- (2) The installation, operation, and maintenance of air pollution control equipment or an air pollution control process having equivalent or greater NOx removal efficiency as LNB, as approved by the department and EPA as described in Env-A 1315 relative to NOx RACT orders.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.04)

Env-A 1305.04 RACT Requirements: Dry Bottom Industrial Boilers Firing Coal and/or Oil. The NOx RACT requirements for dry-bottom industrial boilers that are subject to Env-A 1305.03(a) and fire, or are capable of firing, coal or oil, or any combination thereof, shall be as follows:

(a) For tangential-fired boilers, an emission limit of 0.38 lb. per million Btu, based on a 24-hour calendar day average;

(b) For face-fired boilers, an emission limit of 0.50 lb. per million Btu, based on a 24-hour calendar day average; and

(c) For stoker-fired boilers, an emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.05)

Env-A 1305.05 RACT Requirements: Boilers Firing Oil Exclusively. The NOx RACT requirements for tangential or face-fired boilers that are subject to Env-A 1305.03(a) and are only capable of firing oil shall be as follows:

(a) For boilers firing No. 2 fuel oil exclusively, an emission limit of 0.12 lb. per million Btu, based on an hourly average; and

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (b) For boilers firing No. 4, 5, or 6 fuel oil, or any combination thereof:
  - (1) An emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average; or
  - (2) Implement NOx RACT control technology as specified in Env-A 1305.03(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.06)

Env-A 1305.06 RACT Requirements: Boilers Firing Oil and Gas. The NOx RACT requirements for tangential or face-fired boilers that are subject to Env-A 1305.03(a) and fire, or are capable of firing, a combination of oil and gas, shall be as follows:

- (a) When firing gas exclusively:
  - (1) An emission limit of 0.10 lb. per million Btu, based on an hourly average; or
  - (2) Implement NOx RACT control technology as specified in Env-A 1305.03(b);
- (b) When firing oil exclusively:
  - (1) When firing No. 2 fuel oil exclusively, an emission limit of 0.12 lb. per million Btu, based on an hourly average; and
  - (2) When firing No. 4, 5, or 6 fuel oil, or any combination thereof:
    - a. An emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average; or
    - b. Implement NOx RACT control technology as specified in Env-A 1305.04(b); and
- (c) When firing a combination of oil and gas:
  - (1) When firing gas and No. 2 fuel oil, an emission limit of 0.12 lb. per million Btu, based on an hourly average; and
  - (2) When firing gas and No. 4, 5, or 6 fuel oil, or any combination thereof:
    - a. An emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average; or
    - b. Implement NOx RACT control technology as specified in Env-A 1305.03(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.07)

Env-A 1305.07 RACT Requirements: Boilers Firing Gas Exclusively. The NOx RACT requirements for boilers that are subject to Env-A 1305.03(a) and are only capable of firing gas shall be as follows:

- (a) An emission limit of 0.10 lb. per million Btu, based on an hourly average; or
- (b) Implement NOx RACT control technology as specified in Env-A 1305.03(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.08)

Env-A 1305.08 RACT Requirements: Boilers Firing Wood. The NOx RACT requirements for boilers that are subject to Env-A 1305.03(a) and fire wood fuel, or are capable of firing wood fuel, whether alone or in combination with oil, shall be as follows:

- (a) For boilers equipped with a traveling, shaker, or vibrating grate, an emission limit of 0.33 lb. per million Btu, based on a 24-hour calendar day average; and

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(b) For boilers equipped with a stationary grate, an emission limit of 0.25 lb. per million Btu based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.09)

Env-A 1305.09 RACT Requirements for Industrial Boilers with Heat Input Rates of 100 Million Btu Per Hour or More.

(a) Any industrial boiler having a heat input rate of 100 million Btu per hour or more shall comply with the applicable NOx RACT requirements specified in Env-A 1305.10 through Env-A 1305.14.

(b) For purposes of Env-A 1305.12 and Env-A 1305.13, NOx RACT control technology shall be:

(1) The installation, operation, and maintenance of low NOx burners (LNB); or

(2) The installation, operation, and maintenance of air pollution control equipment or an air pollution control process having equivalent or greater NOx removal efficiency as LNB, as approved by the department and EPA as described in Env-A 1315 relative to NOx RACT orders.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.10)

Env-A 1305.10 RACT Requirements: Wet-Bottom Industrial Boilers Firing Coal. For wet-bottom boilers that are subject to Env-A 1305.09(a) and fire coal or are capable of firing coal, whether by itself or in combination with any other fuel(s), the NOx RACT requirements shall be as follows:

(a) For tangential or face-fired boilers, an emission limit of 1.0 lb. per million Btu, based on a 24-hour calendar day average; and

(b) For cyclone-fired boilers, an emission limit of 0.92 lb. per million Btu, based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.11)

Env-A 1305.11 RACT Requirements: Dry-Bottom Industrial Boilers Firing Coal and/or Oil. For dry-bottom boilers that are subject to Env-A 1305.09(a) and fire, or are capable of firing, coal or oil, or any combination thereof, the NOx RACT requirements shall be as follows:

(a) For tangential-fired boilers, an emission limit of 0.38 lb. per million Btu, based on a 24-hour calendar day average;

(b) For face-fired boilers, an emission limit of 0.50 lb. per million Btu, based on a 24-hour calendar day average; and

(c) For stoker-fired boilers, an emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.12)

Env-A 1305.12 RACT Requirements: Industrial Boilers Firing Oil and/or Gas. For boilers that are subject to Env-A 1305.09(a) and fire, or are capable of firing, oil or gas, or any combination thereof, the NOx RACT requirements shall be as follows:

(a) For tangential or face-fired boilers when firing oil exclusively:

(1) An emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average; or

(2) Implement NOx RACT control technology as specified in Env-A 1305.09(b); and

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(b) For tangential or face-fired boilers when firing gas, or any combination of oil and gas, an emission limit of 0.25 lb. per million Btu based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.13)

Env-A 1305.13 RACT Requirements: Industrial Boilers Firing Gas Exclusively. For boilers that are subject to Env-A 1305.09(a) and are only capable of firing gas, the NOx RACT requirements shall be as follows:

(a) For tangential or face-fired boilers, an emission limit of 0.10 lb. per million Btu, based on an hourly average; or

(b) Implement NOx RACT control technology as specified in Env-A 1305.09(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.14)

Env-A 1305.14 RACT Requirements: Boilers Firing Wood. For boilers that are subject to Env-A 1305.09(a) and fire wood fuel, or are capable of firing wood fuel, whether alone or in combination with oil, the NOx RACT requirements shall be as follows:

(a) For boilers equipped with a traveling, shaker, or vibrating grate, an emission limit of 0.33 lb. per million Btu, based on a 24-hour calendar day average; and

(b) For boilers equipped with a stationary grate, an emission limit of 0.25 lb. per million Btu, based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1305.15)

PART Env-A 1306 STATIONARY COMBUSTION TURBINES

Env-A 1306.01 Applicability.

(a) All stationary combustion turbines meeting the applicability criteria of Env-A 1301.02(e) and not used as load shaving units, shall be subject to Env-A 1306.02 and Env-A 1306.03.

(b) Stationary combustion turbines excluded from Env-A 1301.02(e) because they are used as emergency generators shall be subject to Env-A 1311 in lieu of this part if they meet the applicability criteria of Env-A 1301.02(j).

(c) All stationary combustion turbines that meet the applicability criteria of Env-A 1301.02(e) and are used as load shaving units shall be subject to Env-A 1306.04.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1306.02 Emission Standards for Stationary Combustion Turbines Constructed After May 27, 1999. A gas-fired turbine constructed after May 27, 1999 shall not exceed an hourly average NOx RACT emission limit of 25 parts per million by volume, dry basis ( ppmvd), corrected to 15% O<sub>2</sub>, equivalent to 0.092 lb. per million Btu, when operating on gas.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1306.03 Emission Standards for Stationary Combustion Turbines Constructed on or Before May 27, 1999. Emissions from a stationary combustion turbine that was constructed prior to May 27, 1999 shall be limited at all times to the applicable hourly average NOx RACT emission limits specified below:

- (a) For combined and regenerative cycle combustion turbines:
  - (1) For gas-fired turbines without oil back-up, 42 ppmvd, corrected to 15% O<sub>2</sub>, or 0.155 lb. per million Btu;
  - (2) For gas-fired turbines with oil back-up, the more stringent of:
    - a. When operating on gas, 42 ppmvd, corrected to 15% O<sub>2</sub>, or 0.155 lb. per million Btu; or
    - b. When operating on oil, 65 ppmvd, corrected to 15% O<sub>2</sub>, or 0.253 lb. per million Btu; and
  - (3) For oil-fired turbines, 65 ppmvd, corrected to 15% O<sub>2</sub>, or 0.253 lb. per million Btu;
- (b) For simple cycle combustion turbines:
  - (1) For gas-fired turbines without oil back-up, 55 ppmvd, corrected to 15% O<sub>2</sub>, or 0.203 lb. per million Btu;
  - (2) For oil-fired turbines, 75 ppmvd, corrected to 15% O<sub>2</sub>, or 0.292 lb. per million Btu; and
  - (3) For gas-fired turbines with oil back-up:
    - a. When operating on gas, 55 ppmvd, corrected to 15% O<sub>2</sub>, or 0.203 lb. per million Btu; and
    - b. When operating on oil, 75 ppmvd, corrected to 15% O<sub>2</sub>, or 0.292 lb. per million Btu.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1306.04 Emission Standards for Stationary Combustion Turbines Used as Load Shaving Units. Stationary combustion turbines used as load shaving units shall not exceed a NOx RACT emission limit of 0.90 lbs per million Btu heat input based on an hourly average for any type of fuel.

Source. #12584, eff 8-15-18

### PART Env-A 1307 STATIONARY INTERNAL COMBUSTION ENGINES

#### Env-A 1307.01 Applicability.

- (a) All stationary internal combustion engines meeting the applicability criteria of Env-A 1301.02(f) and (l) shall be subject to this part.
- (b) Stationary internal combustion engines excluded from Env-A 1301.02(f) because they are used as emergency generators shall be subject to Env-A 1311 in lieu of this part if they meet the applicability criteria of Env-A 1301.02(j).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1307.02 Emission Standards for Stationary Internal Combustion Engines Not Subject to New Source Performance Standards. Stationary internal combustion engines that do not meet the applicability criteria of 40 CFR §60.4200 or §60.4230, shall be subject to the hourly average NOx RACT emission limits specified below:

- (a) For gas-fired units that are:

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (1) Rich burn stationary internal combustion engines, the standard shall be 1.5 grams per rated brake horsepower per hour (bhp-hr); and
  - (2) Lean burn stationary internal combustion engines, the standard shall be 2.5 grams per bhp-hr; and
- (b) For liquid fuel-fired units that are:
- (1) Stationary internal combustion engines with a maximum engine power of greater than 560 KW or 750 hp, the standard shall be 6.4 grams per kilowatt-hour (kW-hr); and
  - (2) Stationary internal combustion engines with a maximum engine power of less than or equal to 560 KW or 750 hp, the standard shall be 4.0 grams per kilowatt-hour (kW-hr).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1307.03 Emission Standards for Stationary Internal Combustion Engines Subject to New Source Performance Standards. Stationary internal combustion engines that meet the applicability criteria of 40 CFR §60.4200 or §60.4230, shall be subject to the following NOx RACT emission limits:

(a) For stationary compression ignition internal combustion engines, compliance with the NOx emission standards for non-emergency engines in 40 CFR §60.4204 and §60.4206 shall constitute compliance with Env-A 1307; and

(b) For stationary spark ignition internal combustion engines, compliance with the NOx emission standards listed for non-emergency engines in 40 CFR §60.4233 through §60.4234 shall constitute compliance with Env-A 1307.

Source. #12584, eff 8-15-18

PART Env-A 1308 ASPHALT PLANT ROTARY DRYERS

Env-A 1308.01 Applicability. Any asphalt plant rotary dryer meeting the applicability criteria of Env-A 1301.02(g) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1308.02 Definitions. For the purpose of this part, the following definitions shall apply:

(a) “Batch type asphalt plant” means an asphalt plant where equipment external to the rotary dryer is used to mix the aggregate and asphalt cement or other binder;

(b) “Drum mix type asphalt plant” means an asphalt plant where the asphalt cement or other binder is added to the aggregate while the aggregate is in the rotary dryer; and

(c) “Rotary dryer” means a cylinder which rotates about a fixed axis and through which hot gases are passed for the purpose of removing moisture from solid material.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1308.03 Emission Standards for Asphalt Plant Dryers. Any asphalt plant rotary dryer, whether a batch type asphalt plant or a drum mix type asphalt plant, shall not exceed an hourly average NOx RACT emission limit of 0.12 lb. per ton of asphalt produced, equivalent to 0.429 lb. per million Btu.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

PART Env-A 1309 INCINERATORS

Env-A 1309.01 Applicability. All incinerators meeting the applicability criteria of Env-A 1301.02(h) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1309.02 Definition. For purposes of this part, the following definitions shall apply:

(a) “Startup” means “startup period” as defined in 40 CFR Subpart BBBB, §60.1940, as reprinted in Appendix B.

(b) “Shutdown” means the period beginning when, in order to cease operation, municipal solid waste is no longer fed into the combustor and ending when all municipal solid waste in the combustor has been combusted.

Source. #12584, eff 8-15-18

Env-A 1309.03 Emission Standards for Incinerators.

(a) Subject to (b), below, an incinerator shall not exceed a 24-hour calendar day average NO<sub>x</sub> RACT emission limit of 0.53 lb. per million Btu.

(b) Beginning one year after the 2018 effective date of this rule, an incinerator:

(1) Shall not exceed a 24-hour calendar day average NO<sub>x</sub> RACT emission limit of 150 ppmvd at 7% oxygen, except during days with periods of startup or shutdown; and

(2) During calendar days with periods of startup or shutdown, shall not exceed a 24-hour calendar day average NO<sub>x</sub> mass emission rate (pounds per hour) calculated as the equivalent of 205 ppmvd at 7% oxygen and the maximum heat input rate for the incinerator (MMBtu per hour).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1309.02)

PART Env-A 1310 WALLBOARD MANUFACTURING FACILITIES

Env-A 1310.01 Applicability. Any wallboard dryer, calcining mill, calciner, or gypsum rock dryer meeting the applicability criteria of Env-A 1301.02(i) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1310.02 Emission Standards for Wallboard Manufacturing Facilities.

(a) Any wallboard dryer, calcining mill, calciner, or gypsum rock dryer shall comply with the applicable NO<sub>x</sub> RACT requirements specified in Env-A 1310.03 and Env-A 1310.04.

(b) For purposes of Env-A 1310.03 and Env-A 1310.04, NO<sub>x</sub> RACT control technology shall be:

(1) The installation, operation, and maintenance of low NO<sub>x</sub> burners (LNB); or

(2) The installation, operation, and maintenance of air pollution control equipment or an air pollution control process having equivalent or greater NO<sub>x</sub> removal efficiency as LNB, as approved by the department and EPA as described in Env-A 1315 relative to NO<sub>x</sub> RACT orders.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1310.03 Emission Standards for Wallboard Manufacturing Facilities Firing Natural Gas. For wallboard dryers, calcining mills, calciners, and gypsum rock dryers firing natural gas, the NOx RACT requirements shall be as follows:

- (a) An emission limit of 0.10 lb. per million Btu, based on an hourly average; or
- (b) Implement NOx RACT control technology as specified in Env-A 1310.02(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1310.04 Emission Standards for Wallboard Manufacturing Facilities Firing Oil. For wallboard dryers, calcining mills, calciners, and gypsum rock dryers firing fuel oil, the NOx RACT requirements shall be as follows:

- (a) When firing No. 2 fuel oil:
  - (1) An emission limit of 0.10 lb. per million Btu, based on an hourly average; or
  - (2) Implement NOx RACT control technology as specified in Env-A 1310.02(b); and
- (b) When firing No. 4, No. 5, or No. 6 fuel oil:
  - (1) An emission limit of 0.30 lb. per million Btu, based on a 24-hour calendar day average; or
  - (2) Implement NOx RACT control technology as specified in Env-A 1310.02(b).

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

PART Env-A 1311 EMERGENCY GENERATORS – STATIONARY INTERNAL COMBUSTION ENGINES AND STATIONARY COMBUSTION TURBINES

Env-A 1311.01 Applicability. Emergency generators meeting the applicability criteria of Env-A 1301.02(j) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1311.02 Operating Hours: Limit, Consequences of Exceeding Limit.

- (a) Each emergency generator subject to this part shall be limited to less than 500 hours of operation per year during any consecutive 12-month period by an enforceable permit issued by the department.
- (b) If the hours of operation of any emergency generator exceed 500 hours for any consecutive 12-month period, then:
  - (1) The owner or operator of the emergency generator shall notify the department in writing within 10 days of the exceedance; and
  - (2) The emergency generator shall immediately become subject to the requirements of Env-A 1306 or Env-A 1307, as applicable to the device type and fuel type.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1311.03 Control Requirements for Stationary Combustion Turbines. The owner or operator of a stationary combustion turbine used as an emergency generator shall:

- (a) Adjust the combustion process of the combustion turbine, at least once every 12 months, in accordance with the following:

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (1) Inspect the burner, the flame pattern from the burner, and the systems which control the air-to-fuel ratio;
  - (2) Adjust the air-to-fuel ratio in accordance with the results of the inspections performed;
  - (3) Determine the effect of the adjustment upon NO<sub>x</sub> emissions by performing gaseous concentration measurements in accordance with NO<sub>x</sub> RACT testing, as specified in Env-A 800;
  - (4) Re-adjust the air-to-fuel ratio based on results of the previous adjustment performed to minimize total NO<sub>x</sub> emissions; and
  - (5) Confirm that NO<sub>x</sub> emissions from the equipment or source operation do not cause an exceedance of any maximum allowable emission rate for NO<sub>x</sub> or any other state and federally regulated air pollutant;
- (b) Maintain, in a format that can be retained unaltered for the time period specified in Env-A 902, the following information:
- (1) The date on which the combustion process was last adjusted;
  - (2) The name, title, and affiliation of the individual who made the adjustments;
  - (3) The concentration of NO<sub>x</sub> in the effluent stream, in ppmv measured at high fire or typical operating load, before and after the adjustments are made; and
  - (4) The concentration of CO in the effluent stream, in ppmv and oxygen in volume percent, measured at high fire or typical operating load, before and after the adjustments are made;
- (c) Concentration measurements may be taken by either a dry or wet basis, provided that the following:
- (1) The same basis is used before and after the adjustments are made; and
  - (2) All gases are measured using the same basis;
- (d) Install, operate, and maintain an elapsed time meter for each emergency generator to indicate, in cumulative hours, the elapsed operating time for the previous 12 months; and
- (e) Determine the hours of operation for each emergency generator for the previous 12-month period on a monthly basis.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10;  
ss by #12584, eff 8-15-18

Env-A 1311.04 Control Requirements for Stationary Internal Combustion Engines Having Manual Adjustment Capabilities. The owner or operator of a stationary internal combustion engine that is used as an emergency generator and that allows for manual adjustment of the air-to-fuel ratio or ignition timing in order to affect the combustion process, shall:

- (a) Set and maintain the ignition timing of the engine 4 degrees retarded relative to standard timing, provided that the ignition timing shall not be retarded beyond the point that:
  - (1) The CO emission concentration increases beyond 100 ppmv;
  - (2) The turbocharger speed is increased beyond the maximum operating speed recommended by the manufacturer;
  - (3) The exhaust port temperature increases beyond the manufacturer's recommended maximum operating temperature; or
  - (4) The opacity of the emissions from the engine exhaust is equal to or greater than 20% opacity;

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(b) Install, operate, and maintain an elapsed time meter for each engine to indicate, in cumulative hours, the elapsed engine operating time for the previous 12 months;

(c) Determine the hours of operation for each engine for the previous 12-month period on a monthly basis; and

(d) Maintain records to certify that the ignition timing of the engine has been inspected and adjusted at least once every 3 years.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1311.05 Control Requirements and Emission Limits for Stationary Internal Combustion Engines Not Having Manual Adjustment Capabilities. The owner or operator of a stationary internal combustion engine that is used as an emergency generator and that does not allow for manual adjustment of the air-to-fuel ratio or ignition timing in order to affect the combustion process, shall:

(a) Install, operate, and maintain an elapsed time meter for each engine to indicate, in cumulative hours, the elapsed operating time for the previous 12 months;

(b) Determine the hours of operation for each engine for the previous 12-month period on a monthly basis;

(c) Operate the engine in conformance with the engine manufacturer's instructions, such as following maintenance and operating requirements to help minimize emissions; and

(d) For engines subject to 40 CFR Part 60, maintain the engine manufacturer's instructions at the facility so that they are available for review.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1311.06 Calculating Emissions. The emissions from emergency generators shall be included in the calculation of both the actual and theoretical potential emissions from a stationary source.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

PART Env-A 1312 AUXILIARY BOILERS

Env-A 1312.01 Applicability. An auxiliary boiler meeting the applicability criteria of Env-A 1301.02(k) shall be subject to this part.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

Env-A 1312.02 Emission Standards for Auxiliary Boilers.

(a) An auxiliary boiler with a heat input rate of at least 5 million Btu per hour but less than 50 million Btu per hour shall comply with Env-A 1305.02 and Env-A 1305.03.

(b) An auxiliary boiler with a heat input rate of at least 50 million Btu per hour, shall not exceed a NO<sub>x</sub> RACT emission limit of 0.20 lb. per million Btu based on a 24-hour calendar day average, regardless of the type of fuel burned.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1312.03 Calculating Emissions. The emissions from all auxiliary boilers shall be included in the calculation of both the actual and theoretical potential emissions from the stationary source.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18

PART Env-A 1313 MISCELLANEOUS STATIONARY SOURCES

Env-A 1313.01 Emission Standards and Control Options for Miscellaneous Stationary Sources. Owners or operators of any miscellaneous stationary sources meeting the applicability criteria of Env-A 1301.02(l) shall:

(a) Initiate and implement a study of RACT control options, consisting of a detailed examination of technological and economic feasibility of available NO<sub>x</sub> control techniques for all classifiable and unclassifiable NO<sub>x</sub>-emitting sources, devices, or processes; and

(b) Apply for and obtain from the department a RACT order in accordance with Env-A 1315.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1314.01)

PART Env-A 1314 RACT COMPLIANCE

Env-A 1314.01 Testing, Recordkeeping, and Recording for NO<sub>x</sub> RACT Compliance.

(a) Stationary sources subject to this chapter shall comply with the testing requirements specified in Env-A 800.

(b) Except when a source is subject to (d) or (e), below, compliance with the NO<sub>x</sub> RACT emission standards specified in this chapter shall be determined:

(1) In accordance with Env-A 803; or

(2) By a continuous emission monitoring (CEM) system for NO<sub>x</sub>, if a CEM system is required by a permit issued pursuant to Env-A 600 or by Env-A 1314.02.

(c) Except when purchasing NO<sub>x</sub> allowances pursuant to Env-A 3100, recordkeeping and reporting shall be in accordance with Env-A 900.

(d) The owner or operator of a source subject to Env-A 2900, Multiple Pollutant Annual Budget Trading and Banking Program, shall comply with the testing and monitoring requirements specified in Env-A 800 and in Env-A 2900 and the recordkeeping and reporting requirements of Env-A 900 and Env-A 2900. In the event of a conflict between Env-A 2900 and Env-A 800 or Env-A 900, the requirements of Env-A 2900 shall apply.

(e) The owner or operator of a source subject to Env-A 3200, NO<sub>x</sub> Budget Trading Program, shall comply with the testing and monitoring requirements specified in Env-A 800 and in Env-A 3200 and the recordkeeping and reporting requirements of Env-A 900 and Env-A 3200. In the event of a conflict between Env-A 3200 and Env-A 800 or Env-A 900, the requirements of Env-A 3200 shall apply.

(f) Unless otherwise specified by the department in a permit or order, for a source that operates a CEM system that satisfies the requirements of Env-A 800, compliance with the emission limitations in this part shall be determined based on a 24-hour calendar day average.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.01)

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-A 1314.02 CEM Requirements for NO<sub>x</sub>. The department shall require installation, operation, maintenance, and quality assurance testing of a CEM system for NO<sub>x</sub> which meets all applicable requirements specified in Env-A 800 if any of the following conditions exist:

(a) A source uses air pollution control equipment in order to maintain compliance with a NO<sub>x</sub> emission limit, and continuous emission monitoring is necessary to ensure that the emission limit is not exceeded and that the control equipment is performing correctly;

(b) A stationary source is otherwise subject to the CEM provisions of Env-A 800;

(c) A stationary source or device generates emissions credits for the purpose of emission averaging pursuant to Env-A 1314.04; or

(d) A stationary source or device uses seasonal emission control techniques, in accordance with Env-A 1314.06, in order to comply with NO<sub>x</sub> RACT.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.02)

### Env-A 1314.03 Alternatives to Meeting Specified RACT Emission Limits.

(a) Compliance with the NO<sub>x</sub> RACT emission limits specified in this chapter may be achieved through the purchase of NO<sub>x</sub> allowances that are converted to and used as discrete emission reductions (DERs) in accordance with Env-A 3100.

(b) NO<sub>x</sub> RACT emission limits other than those specified in Env-A 1303 through Env-A 1312 shall be allowable as an alternative to the specified limits for all NO<sub>x</sub> emitting processes and devices regulated under this chapter, except for wet-bottom cyclone fired utility boilers subject to the NO<sub>x</sub> RACT requirements specified in Env-A 1303.06.

(c) To obtain alternative NO<sub>x</sub> RACT emission limits for a source, the owner or operator of the source shall request a NO<sub>x</sub> RACT order from the department in accordance with Env-A 1315.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.03)

### Env-A 1314.04 Emissions Averaging for Multiple Sources Under Common Ownership.

(a) For the purposes of this section, "bubble" means an option taken by the owner of 2 or more stationary sources to use emissions averaging so as to impose controls that are more stringent than RACT level on one or more emissions units at one or more of the owner's stationary sources while simultaneously imposing controls that are less stringent than RACT level on other emissions units at the same or other of the owner's stationary sources, including the option of no controls on such units, in order to achieve the same overall amount of emission reduction required by the state implementation plan (SIP) in a more cost effective manner.

(b) Emissions averaging shall be allowed for NO<sub>x</sub> emissions from 2 or more stationary sources only if all of the requirements of this section are met.

(c) All of the stationary sources to be included in the emissions averaging shall be:

(1) Located in New Hampshire; and

(2) Under the control of a single owner.

(d) Emissions averaging, including identifying allowable emission averaging periods, shall be done in accordance with EPA's emissions trading policy, as described at 51 FR 43814 and 51 FR 43850.

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(e) Emission reduction credits generated for the purpose of emission averaging shall:

(1) Be real, surplus, permanent, quantifiable, federally-enforceable, and transferable within the bubble within a given calendar year; and

(2) Conform to 40 CFR 51.165, as revised June 28, 1989, RSA 125-J, Env-A 3000, and Env-A 3100.

(f) Emissions averaging shall be enforced by means of federally-enforceable conditions contained in the permits for the stationary sources issued by the department as a source-specific SIP revision, or by federally-enforceable permits issued by the department or EPA, for all stationary sources to be included in the averaging.

(g) The recordkeeping and reporting requirements for emission averaging shall:

(1) Be in accordance with Env-A 900; and

(2) Include a summary of the emissions, emissions reduction credit transfers, applicable transfer ratios, and adjusted emissions, after transfer, of each affected stationary source.

(h) Each stationary source to be included in the emissions averaging shall calculate the total allowable NO<sub>x</sub> emissions using the equation specified in Env-A 1314.05 for each 24-hour calendar day. Compliance with the NO<sub>x</sub> RACT weighted average allowable emission rate so calculated shall be based on the weighted average actual NO<sub>x</sub> emissions from the emissions unit(s) that are operating on a given day.

(i) Emission reduction credits generated from reductions at any stationary source included in emissions averaging may be used for compliance with the total allowable NO<sub>x</sub> emissions calculated pursuant to (h), above, by any other stationary source(s) within the bubble.

(j) The owner or operator of each stationary source to be included in the emissions averaging shall:

(1) Calculate daily emissions:

a. For those emissions units generating credits for the purpose of emissions averaging, based on the installation of CEMs in accordance with Env-A 1314.02; or

b. For those emissions units for which CEMs are not required under Env-A 1314.02, based on:

1. The worst case emission rate(s) for the device(s) or source(s) established through stack testing performed in accordance with Env-A 800 and approved by EPA; and

2. The hours of operation measured in accordance with a method approved by EPA; and

(2) Comply with the recordkeeping and reporting requirements specified in Env-A 900.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.04)

Env-A 1314.05 Emissions Averaging Equation.

(a) “E” means the total allowable emissions from all stationary sources included in the emissions averaging, in pounds per day.

(b) “A<sub>1</sub>, A<sub>2</sub>, ..., A<sub>n</sub>” means the applicable emission limit for each unit of production, such as lb/MMBtu, as specified in this chapter.

(c) “B<sub>1</sub>, B<sub>2</sub>, ..., B<sub>n</sub>” means the maximum number of units of production per day, such as MMBtu/day, based on the maximum gross heat input rate of each emissions unit included in the emissions averaging.

## NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

(d) To calculate the total allowable emissions from all stationary sources included in the emissions averaging in pounds per day, the owner or operator shall multiply A1 times B1, A2 times B2, and so forth, and then sum the products, as shown in the formula below:

$$E = (A1 \times B1) + (A2 \times B2) + \dots + (An \times Bn)$$

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.05)

### Env-A 1314.06 Seasonal Control of NO<sub>x</sub> Emissions.

(a) A stationary source that is subject to this chapter may use seasonal emission control techniques in order to comply with NO<sub>x</sub> RACT, as specified in (b) through (f), below.

(b) Any stationary source using post-combustion NO<sub>x</sub> air pollution control equipment to comply with NO<sub>x</sub> RACT during the ozone season shall continue to operate said equipment during the remainder of the calendar year.

(c) The allowable annual NO<sub>x</sub> mass emission rate, in tons per year, shall be less than or equal to the annual NO<sub>x</sub> mass emission rate that would be calculated by multiplying the actual annual production rate, for example Btu per year, by the applicable emission limit, for example lbs. NO<sub>x</sub> per million Btu, as specified in Env-A 1303 through Env-A 1312 for all emissions units and fuels in use prior to December 31, 1990.

(d) Annual NO<sub>x</sub> emissions limits shall be based on the lower of the actual or allowable NO<sub>x</sub> emissions for calendar year 1990, unless NO<sub>x</sub> emissions and operational data submitted by the owner or operator, and approved by the department in accordance with (e), below, demonstrate that NO<sub>x</sub> emissions from the source for calendar year 1990 are not representative of normal operations. In no case shall NO<sub>x</sub> emissions data for years prior to calendar year 1989 be used to represent normal operations for the purpose of emissions averaging.

(e) The department shall use EPA-approved methods and procedures as specified in 40 CFR §51.165 for determining whether the NO<sub>x</sub> and operational data submitted by the owner or operator is adequate to demonstrate that NO<sub>x</sub> emissions for calendar year 1990 are not representative of normal operations.

(f) Emissions averaging to meet NO<sub>x</sub> RACT requirements on a seasonal basis shall be allowable in accordance with the following requirements:

(1) A 24-hour calendar day average NO<sub>x</sub> mass emission limit shall be established for the ozone season based on the applicable limit specified in Env-A 1303 through Env-A 1312 for all emissions units and fuels in use prior to December 31, 1992;

(2) A 24-hour calendar day average NO<sub>x</sub> mass emission limit shall be established for the remainder of the year based on the uncontrolled emission rate of the emissions unit determined by CEM data or stack test data;

(3) An allowable average annual NO<sub>x</sub> mass emission limit shall be established in accordance with (c), above;

(4) The sum of the NO<sub>x</sub> mass emissions during the ozone season and the NO<sub>x</sub> mass emissions during the remainder of the calendar year shall be less than or equal to the lesser of the annual NO<sub>x</sub> mass emissions that would have been allowed under Env-A 1303 through Env-A 1312 or the annual NO<sub>x</sub> mass emissions otherwise allowed under Env-A 611, Env-A 618, Env-A 619, Env-A 1313, Env-A 1314.03, Env-A 1314.04, Env-A 2900 through Env-A 3300, Env-A 3500, Env-A 3700, and Env-A 4300;

(5) Emissions from replacement power sources shall be calculated by multiplying the actual production rate for the device, for example Btu per hour, by the allowable NO<sub>x</sub> mass emission rate for the device, for example lb. NO<sub>x</sub> per million Btu;

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (6) For multiple sources under common ownership using the bubble specified in Env-A 1314.04, the applicable emission limit for each unit of production referred to in the formula in Env-A 1314.05 shall be established in accordance with the applicable provisions of this part; and
- (7) All stationary sources using seasonal controls shall:
- a. Install CEMs to the extent required by Env-A 1314.02 and Env-A 800;
  - b. Calculate daily emissions in accordance with Env-A 1314.02 and Env-A 800;
  - c. Calculate annual emissions in accordance with this part; and
  - d. Comply with the applicable recordkeeping and reporting requirements specified in Env-A 900.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1315.06)

PART Env-A 1315 NO<sub>x</sub> RACT ORDERS

Env-A 1315.01 Definitions. For the purpose of this part, the following definitions shall apply:

(a) “Determination of insufficiency” means a written determination by the department that the documentation submitted by an applicant pursuant to Env-A 1315.02(a), is inadequate for the department to issue a NO<sub>x</sub> RACT order; and

(b) “Determination of sufficiency” means a written determination by the department that the documentation submitted by an applicant pursuant to Env-A 1315.02(a), is adequate for the department to issue a NO<sub>x</sub> RACT order.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.01)

Env-A 1315.02 Requests for NO<sub>x</sub> RACT Orders; Initial Determinations Regarding Sufficiency.

(a) To request a NO<sub>x</sub> RACT order, the owner or operator of any miscellaneous stationary source subject to the provisions of Env-A 1313 or any source, device or process seeking alternative RACT emission limits pursuant to Env-A 1314.03 shall submit the information, including a feasibility study, as specified in Env-A 1315.04 to the department within 120 days of the date when the source becomes subject to this chapter.

(b) Within 60 days of receipt of information submitted pursuant to (a), above, the department shall review all information submitted and notify the person requesting the alternative emissions limits (requestor) in writing of its initial determination of sufficiency or initial determination of insufficiency.

(c) If the department makes an initial determination of insufficiency, the notice sent pursuant to (b), above, shall include:

(1) A request for the additional information that is necessary for the department to make a determination of sufficiency; and

(2) A statement that if a complete response to the request for additional information is not received by the department within 60 days of the date of the notice sent pursuant to (b), above, a final determination of insufficiency will be made.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.02)

Env-A 1315.03 Final Determinations Regarding Sufficiency; Proposed NO<sub>x</sub> RACT Orders.

(a) If an initial determination of sufficiency is made, then within 60 days of the initial determination of sufficiency the department shall:

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (1) Make a final determination of sufficiency and present to EPA and the requestor a proposed RACT order that contains the information specified in (c), below; and
  - (2) Proceed as specified in Env-A 1315.05 relative to public notice.
- (b) If an initial determination of insufficiency is made, then within 60 days of the initial determination of insufficiency the department shall:
- (1) If the requestor files a response within the specified time period which contains information that is sufficient to allow a determination of sufficiency to be made, make a final determination of sufficiency and:
    - a. Present to EPA and the requestor a proposed NO<sub>x</sub> RACT order that contains the information specified in (c), below; and
    - b. Proceed as specified in Env-A 1315.05 relative to public notice; or
  - (2) If the requestor does not file a response within the specified time period which contains information that is sufficient to allow a determination of sufficiency to be made, terminate the permit process and issue a final determination of insufficiency.
- (c) A proposed NO<sub>x</sub> RACT order issued pursuant to (a)(1) or (b)(1) shall contain the following:
- (1) An inventory of all NO<sub>x</sub>-emitting sources, devices, or processes;
  - (2) Emission limits for all NO<sub>x</sub>-emitting sources, devices, or processes;
  - (3) A schedule requiring compliance with the RACT emission limits that contains the elements described in Env-A 1315.04(g);
  - (4) Procedures for determining initial compliance with the emission limits;
  - (5) Procedures for assessing continuous compliance with the emission limits; and
  - (6) Recordkeeping and reporting requirements in accordance with Env-A 900.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.03)

Env-A 1315.04 Information Required for NO<sub>x</sub> RACT Order Request. The information required by Env-A 1315.02(a) shall be as follows:

- (a) An inventory of all NO<sub>x</sub>-emitting sources, devices, or processes at the facility;
- (b) The maximum NO<sub>x</sub>-emitting capacity of each NO<sub>x</sub>-emitting source, device, or process;
- (c) The actual amount of NO<sub>x</sub> emitted based on heat input, fuel consumption, or equivalent method acceptable to the department, for each day during the previous calendar year, from each affected NO<sub>x</sub>-emitting source, device or process at the facility;
- (d) A feasibility study of RACT options, comprising:
  - (1) Identification of all available NO<sub>x</sub> control techniques and other options for all applicable NO<sub>x</sub> emitting sources, devices, or processes for which alternative RACT emission limits are sought, including but not limited to using emission reduction credits (ERCs) or discrete emission reductions (DERs), changing to low-NO<sub>x</sub> emitting processes, and, for utility boilers, the following:
    - a. Low-NO<sub>x</sub> burners;
    - b. Overfire air;

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- c. Flue gas recirculation;
  - d. Natural gas reburn;
  - e. Burners out of service;
  - f. Use of alternative fuels;
  - g. Selective catalytic reduction (SCR); and
  - h. Selective non-catalytic reduction (SNCR); and
- (2) An examination of the technical and economic feasibility of each option identified;
- (e) The control option selected, stating emission limits, monitoring, recordkeeping and reporting procedures, and test methods to demonstrate compliance;
- (f) The amount of NO<sub>x</sub> that is proposed to be controlled from each NO<sub>x</sub>-emitting source, device or process identified in the inventory required by (a), above; and
- (g) A schedule for implementation, which identifies the commitment dates for the major increments of progress toward compliance, including:
- (1) Completion of engineering;
  - (2) Submission of air pollution permit application;
  - (3) Awarding of contract;
  - (4) Initiation of construction;
  - (5) Completion of construction;
  - (6) Initial compliance testing;
  - (7) Submission of compliance tests reports; and
  - (8) Final compliance with emission or control requirements of this chapter.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.04)

Env-A 1315.05 Public Notice; Opportunity for Comment.

- (a) Within 30 days of issuing a proposed NO<sub>x</sub> RACT order, the department shall cause a public notice of the proposed NO<sub>x</sub> RACT order to be published once in a newspaper of daily statewide circulation and once in a newspaper in the general locality of the source for which the alternative NO<sub>x</sub> compliance is being sought.
- (b) The notice published pursuant to (a), above, shall:
- (1) Briefly describe the proposed NO<sub>x</sub> RACT order;
  - (2) Offer the opportunity for a hearing;
  - (3) State where the full proposal is available for inspection, including whether the proposal can be accessed electronically;
  - (4) Identify the name and contact information for the individual at the department to whom a request for a hearing and written comments should be directed; and
  - (5) Specify that comments are due to the department within 30 days of publication of the notice or 10 days after the public hearing, if one is requested.

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

- (c) If a public hearing on the proposal is requested, the department shall:
  - (1) At least 30 days prior to conducting the hearing, publish a notice in a newspaper of daily statewide circulation, stating the place, date, and time of the hearing;
  - (2) Conduct the hearing on the proposed NOx RACT order as specified in the published notice in accordance with the non-adjudicative hearing procedures specified in Env-C 200; and
  - (3) Accept written comments on the proposal until 10 days after the public hearing.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.05)

Env-A 1315.06 Issuance of NOx RACT Order.

(a) After considering all public comment received and within 60 days of the date of the public hearing on the proposed NOx RACT order, the department shall issue a final NOx RACT order to the owner or operator of the affected source, device, or process.

(b) Within 60 days of the issuance of a final NOx RACT order, the department shall submit to EPA a revision to the SIP to reflect the NOx RACT order.

(c) Upon issuance of the final NOx RACT order, the department shall issue a permit to the owner or operator of the affected source, device, or process which incorporates all of the terms and conditions of the final NOx RACT order.

(d) The owner or operator of any source, device, or process for which a final NOx RACT order has been issued shall comply with all of the terms and conditions of the final NOx RACT order immediately upon the issuance of such order by the department.

Source. (See Revision Note at p. iv) #9803, eff 10-31-10; ss by #12584, eff 8-15-18 (formerly Env-A 1316.06)

**APPENDIX A: STATE AND FEDERAL STATUTES IMPLEMENTED**

<b>Rule Section(s)</b>	<b>State Statute(s) Implemented</b>	<b>Federal Statutes Implemented</b>
Env-A 1300	RSA 125-C:6, II and XI	42 U.S.C. Sections 7410, 7502(c) & 7511c

**APPENDIX B: FEDERAL DEFINITIONS**

**40 CFR 60, subpart BBBB:**

**Section 60.1940:**

“Startup period” means the period when a municipal waste combustion unit begins the continuous combustion of municipal solid waste. It does not include any warmup period during which the municipal waste combustion unit combusts fossil fuel or other solid waste fuel but receives no municipal solid waste..

**40 CFR 60, subpart III:**

All terms that are used in this subpart and are not defined below are given the same meaning as in the Act and in subpart A of this part.

**Section 60.4219:**

“Spark ignition” means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel

(typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

“Stationary internal combustion engine” means any internal combustion engine (ICE), except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle, aircraft, or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

**40 CFR 60, subpart JJJJ:**

**Section 60.4248:**

“Lean burn engine” means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

“Rich burn engine” means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to June 12, 2006, with passive emission control technology for NOX (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

**40 CFR 63, subpart JJJJJ:**

**Section 63.11237:**

“Temporary boiler” means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler is not a temporary boiler if any one of the following conditions exists:

- (1) The equipment is attached to a foundation.
- (2) The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location within the facility and performs the same or similar function will be included in calculating the consecutive time period unless there is a gap in operation of 12 months or more.
- (3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- (4) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.