

## 15A NCAC 02D .1208 OTHER INCINERATORS

### (a) Applicability.

- (1) This Rule applies to any incinerator not covered under Rules .1203 through .1207, or .1210 through .1212 of this Section.
- (2) If any incinerator subject to this Rule:
  - (A) is used solely to cremate pets; or
  - (B) if the emissions of all toxic air pollutants from an incinerator subject to this Rule and associated waste handling and storage are less than the levels listed in 15A NCAC 02Q .0711; the incinerator is exempt from Subparagraphs (b)(6) through (b)(9) and Paragraph (c) of this Rule.

### (b) Emission Standards.

- (1) The emission standards in this Rule apply to any incinerator subject to this Rule except where Rules .0524, 1110, or .1111 of this Subchapter apply. However, when Subparagraphs (8) or (9) of this Paragraph and Rules .0524, .1110, or .1111 of this Subchapter regulate the same pollutant, the more restrictive provision for each pollutant applies notwithstanding provisions of Rules .0524, .1110, or .1111 of this Subchapter to the contrary.
- (2) Particulate Matter. Any incinerator subject to this Rule shall comply with one of the following emission standards for particulate matter:
  - (A) For refuse charge rates between 100 and 2000 pounds per hour, the allowable emissions rate for particulate matter from any stack or chimney of any incinerator subject to this Rule shall not exceed the level calculated with the equation  $E=0.002P$  calculated to two significant figures, where "E" equals the allowable emission rate for particulate matter in pounds per hour and "P" equals the refuse charge rate in pounds per hour. For refuse charge rates of 0 to 100 pounds per hour the allowable emission rate is 0.2 pounds per hour. For refuse charge rates of 2000 pounds per hour or greater the allowable emission rate shall be 4.0 pounds per hour. Compliance with this Part shall be determined by averaging emissions over a three-hour block period.
  - (B) Instead of meeting the standards in Part (A) of this Subparagraph, the owner or operator of any incinerator subject to this Rule may choose to limit particulate emissions from the incinerator to 0.08 grains per dry standard cubic foot corrected to 12 percent carbon dioxide. In order to choose this option, the owner or operator of the incinerator shall demonstrate that the particulate ambient air quality standards will not be violated. To correct to 12 percent carbon dioxide, the measured concentration of particulate matter is multiplied by 12 and divided by the measured percent carbon dioxide. Compliance with this Part shall be determined by averaging emissions over a three-hour block period.
- (3) Visible Emissions. Any incinerator subject to this Rule shall comply with Rule .0521 of this Subchapter for the control of visible emissions.
- (4) Sulfur Dioxide. Any incinerator subject to this Rule shall comply with Rule .0516 of this Subchapter for the control of sulfur dioxide emissions.
- (5) Odorous Emissions. Any incinerator subject to this Rule shall comply with Rule .1806 of this Subchapter for the control of odorous emissions.
- (6) Hydrogen Chloride. Any incinerator subject to this Rule shall control emissions of hydrogen chloride such that they do not exceed four pounds per hour unless they are reduced by at least 90 percent by weight or to no more than 50 parts per million by volume corrected to seven percent oxygen (dry basis). Compliance with this Subparagraph shall be determined by averaging emissions over a one-hour period.
- (7) Mercury Emissions. Emissions of mercury and mercury compounds from the stack or chimney of any incinerator subject to this Rule shall not exceed 0.032 pounds per hour. Compliance with this Subparagraph shall be determined by averaging emissions over a one-hour period.
- (8) Toxic Emissions. The owner or operator of any incinerator subject to this Rule shall demonstrate compliance with Section .1100 of this Subchapter according to 15A NCAC 02Q .0700.
- (9) Ambient Standards.
  - (A) In addition to the ambient air quality standards in Section .0400 of this Subchapter, the following ambient air quality standards, which are an annual average, in milligrams per cubic meter at 77 degrees F (25 degrees C) and 29.92 inches (760 mm) of mercury pressure, and

which are increments above background concentrations, apply aggregately to all incinerators at a facility subject to this Rule:

(i)	arsenic and its compounds	$2.3 \times 10^{-7}$
(ii)	beryllium and its compounds	$4.1 \times 10^{-6}$
(iii)	cadmium and its compounds	$5.5 \times 10^{-6}$
(iv)	chromium (VI) and its compounds	$8.3 \times 10^{-8}$

- (B) The owner or operator of a facility with incinerators subject to this Rule shall demonstrate compliance with the ambient standards in Subparts (i) through (iv) of Part (A) of this Subparagraph by following the procedures set out in Rule .1106 of this Subchapter. Modeling demonstrations shall comply with the requirements of Rule .0533 of this Subchapter.
- (C) The emission rates computed or used under Part (B) of this Subparagraph that demonstrate compliance with the ambient standards under Part (A) of this Subparagraph shall be specified as a permit condition for the facility with incinerators subject to this Rule as their allowable emission limits unless Rule .0524, .1110 or .1111 of this Subchapter requires more restrictive rates.

(c) Operational Standards.

- (1) The operational standards in this Rule do not apply to any incinerator subject to this Rule when applicable operational standards in Rule .0524, .1110, or .1111 of this Subchapter apply.
- (2) Crematory Incinerators. Gases generated by the combustion shall be subjected to a minimum temperature of 1600 degrees F for a period of not less than one second.
- (3) Other Incinerators. All incinerators not subject to any other rule in this Section shall meet the following requirement: Gases generated by the combustion shall be subjected to a minimum temperature of 1800 degrees F for a period of not less than one second. The temperature of 1800 degrees F shall be maintained at least 55 minutes out of each 60-minute period, but at no time shall the temperature go below 1600 degrees F.
- (4) Except during start-up where the procedure has been approved according to Rule .0535(g) of this Subchapter, waste material shall not be loaded into any incinerator subject to this Rule when the temperature is below the minimum required temperature. Start-up procedures may be determined on a case-by-case basis according to Rule .0535(g) of this Subchapter. Any incinerator subject to this Rule shall have automatic auxiliary burners that are capable of maintaining the required minimum temperature in the secondary chamber excluding the heat content of the wastes.

(d) Test Methods and Procedures.

- (1) The test methods and procedures described in Section .2600 of this Subchapter and in 40 CFR Part 60 Appendix A and 40 CFR Part 61 Appendix B shall be used to determine compliance with emission rates. Method 29 of 40 CFR Part 60 shall be used to determine emission rates for metals. However, Method 29 shall be used to sample for chromium (VI), and SW 846 Method 0060 shall be used for the analysis.
- (2) The Director shall require the owner or operator to test his incinerator to demonstrate compliance with the emission standards listed in Paragraph (b) of this Rule if necessary to determine compliance with the emission standards of Paragraph (b) of this Rule.

(e) Monitoring, Recordkeeping, and Reporting.

- (1) The owner or operator of an incinerator subject to the requirements of this Rule shall comply with the monitoring, recordkeeping, and reporting requirements in Section .0600 of this Subchapter.
- (2) The owner or operator of an incinerator, except an incinerator meeting the requirements of Parts .1201(c)(4)(A) through (D) of this Section, shall maintain and operate a continuous temperature monitoring and recording device for the primary chamber and, where there is a secondary chamber, for the secondary chamber. The Director shall require a temperature monitoring device for incinerators meeting the requirements of Parts .1201(c)(4)(A) through (D) of this Section if the incinerator is in violation of the requirements of Part .1201(c)(4)(D) of this Section. The owner or operator of an incinerator that has installed air pollution abatement equipment to reduce emissions of hydrogen chloride shall install, operate, and maintain continuous monitoring equipment to measure pH for wet scrubber systems and rate of alkaline injection for dry scrubber systems. The Director shall require the owner or operator of an incinerator with a permitted charge rate of 750 pounds per hour or more to install, operate, and maintain continuous monitors for oxygen or for carbon monoxide or both as

necessary to determine proper operation of the incinerator. The Director shall require the owner or operator of an incinerator with a permitted charge rate of less than 750 pounds per hour to install, operate, and maintain monitors for oxygen or for carbon monoxide or both if necessary to determine proper operation of the incinerator.

(f) Excess Emissions and Start-up and Shut-down. Any incinerator subject to this Rule shall comply with Rule .0535, Excess Emissions Reporting and Malfunctions, of this Subchapter.

*History Note:* Authority G.S. 143-215.3(a)(1); 143-215.107(a)(10);  
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