

10 CSR 10-4.080 Incinerators

(1) General Provisions

(A) This regulation shall apply to all incinerators except those situated on residential premises in the area zoned A-1 Agricultural District and used exclusively to dispose of refuse originating on that same premises.

(B) The burning capacity of an incinerator shall be the manufacturer's or designer's guaranteed maximum rate or such other rate as may be determined by the Executive Secretary in accordance with good engineering practice. In case of conflict, the findings of the Executive Secretary shall govern.

(C) No incinerator shall be used for the burning of refuse unless such incinerator is a multiple chamber incinerator. Existing incinerators which are not multiple chamber incinerators may be altered, modified or rebuilt as may be necessary to meet this requirement. The Executive Secretary may approve any other alteration or modification to an existing incinerator if such be found by him to be equally effective for the purpose of air pollution control as a modification or alteration which would result in a multiple chamber incinerator. All new incinerators shall be multiple chamber incinerators, provided that the Executive Secretary shall approve any other kind of incinerator if it can be shown in advance of construction or installation that such other kind of incinerator is equally effective for purposes of air pollution control as an approved multiple chamber incinerator.

(D) Within thirty (30) days after the date on which construction of an incinerator is completed, the operator shall file a request with the Executive Secretary to schedule the performance tests provided in section (3) of this regulation. If the results of the performance tests indicate that the incinerator is not operating in compliance with section (2) of this regulation, no person may cause or permit further operation of the incinerator, except for additional tests as outlined in section (3) of this regulation, until approval is received from the Executive Secretary.

(2) Restriction of Emissions from Incinerators

(A) No person may cause or permit the emission of particulate matter from the chimney, stack or vent of any incinerator in excess of the following:

1. Incinerators with a refuse burning capacity of two-hundred (200) or more pounds per hour: 0.2 grains of particulate matter per standard dry cubic foot of exhaust gas, corrected to twelve percent (12%) carbon dioxide.

2. All other incinerators: 0.3 grains of particulate matter per standard dry cubic foot of exhaust gas, corrected to twelve percent (12%) carbon dioxide.

(B) All incinerators shall be designed and operated so that all gases, vapors and entrained effluents shall, while passing through the final combustion chamber, be maintained at a temperature adequate to prevent the emission of objectionable odors. Provided, however, that the Executive Secretary shall approve any other method of odor control which is equally effective.

(3) Performance Testing

(A) Refuse burned in conjunction with the performance tests specified in this regulation shall be a representative sample of the refuse normally generated by the operation which the incinerator is intended to serve.

(B) The amount of particulate matter emitted from any incinerator shall be determined according to the American Society of Mechanical Engineers Power Test Codes-PTC 27 dated 1957 and entitled "Determining Dust Concentration in a Gas Stream". This publication is hereby made a part of this regulation by reference. Any other method which is in accordance with good professional practice may be used by mutual consent of the source operator and the Executive Secretary. In calculating the amount of particulate matter in stack gas, the loading shall be adjusted to twelve percent (12%) carbon dioxide in the stack gas. The carbon dioxide produced by burning of the liquid or gaseous fuel in the incinerator shall be excluded from the calculation to twelve percent (12%) carbon dioxide. Emissions shall be measured when the incinerator is operating at the burning capacity as defined in subsection (1)(B) of this regulation, or at any greater operating rate requested by the source operator.

(C) A performance test to determine compliance with the Ringelmann requirements specified in 10 CSR 10-4.060 shall be performed by the Executive Secretary or his designated

representative on each new incinerator, and each existing incinerator modified or rebuilt according to the schedule outlined in section (4) of this regulation.

(D) The performance test specified in subsection (3)(B) of this regulation may be required on any incinerator, and shall be required for each new incinerator having a burning capacity of 1,000 pounds per hour or greater. The initial performance test shall be performed at the expense of the vendor or operator by an independent testing organization or by any other qualified person subject to the approval of the Executive Secretary. The performance test may be observed by the Executive Secretary or his designated representative.

(4) Compliance Schedule for Existing Incinerators. Existing incinerators which are not multiple chamber incinerators and do not otherwise meet the requirements of section (2) of this regulation shall be modified or rebuilt in compliance with this section in accordance with the following schedule: Rated capacity one thousand (1,000) lbs/hr or above)) latest date for compliance, eighteen (18) months from the effective date of this regulation. Rated capacity nine hundred ninety nine (999) lbs/hr or less)) latest date for compliance, thirty (30) months from the effective date of this regulation.

