

Title 26 DEPARTMENT OF THE ENVIRONMENT

Subtitle 11 AIR QUALITY

Chapter 08 Control of Incinerators

Authority: Environment Article, §§1-404, 2-103, 2-301—2-303, 2-406, Annotated Code of Maryland

.01 Definitions.

A. (text unchanged)

B. Terms Defined.

(1) — (45) (text unchanged)

(46) "Operating day" means a 24-hour period *beginning* [between 12] *midnight of one day and ending* the following *midnight, or an alternate 24-hour period approved by the Department, during which time an installation operates, consumes-fuel, or causes emissions.*[any amount of hospital waste or medical/infectious waste is combusted at any time in the HMIWI].

(47) — (53) (text unchanged)

(54) Shutdown.

(a) — (d) (text unchanged)

(e) "*Shutdown*" for a *Large MWC commences thirty minutes after the chute to the loading hopper of the combustion train is closed, and continues for a period of time not to exceed three hours.*

(55) (text unchanged)

(55-1) "*Small MWC*" means a *municipal waste combustor which has a capacity of at least 35 tons and less than or equal to 250 tons per day.*

(56) — (59) (text unchanged)

(60) Startup.

(a) — (b) (text unchanged)

(c) "*Startup*" for a *Large MWC commences when the unit begins the continuous burning of municipal solid waste and continues for a period of time not to exceed three hours, but does not include any warm-up period when the particular unit is combusting fossil fuel or other non-municipal solid waste fuel, and no municipal solid waste is being fed to the combustor.*

(61) "*30-day rolling average emission rate*" means a value of NO_x emissions in ppmv, corrected to 7 percent oxygen, calculated by:

(a) *Summing the total hourly ppmv of NO_x emitted from the unit during the current operating day and the previous 29 operating days, excluding periods of startup and shutdown; and*

(b) *Dividing the total hourly ppmv of NO_x emitted from the unit during the 30 operating days summed in Regulation .01B(61)(a) of this Chapter by 30.*

(62) "*24-hour block average emission rate*" means a value of NO_x emissions in ppmv, corrected to 7 percent oxygen, calculated by:

(a) *Summing the hourly average ppmv of NO_x emitted from the unit during 24 hours between midnight of one day and ending the following midnight, excluding periods of startup and shutdown; and*

(b) *Dividing the total sum of hourly NO_x ppmv values emitted during 24 hours between midnight of one day and ending the following midnight by the 24 hours between midnight of one day and ending the following midnight.*

[(61)] (63) "*Wet scrubber*" means an add-on air pollution control device that utilizes an alkaline scrubbing liquor to collect particulate matter (including nonvaporous metals and condensed organics) or to absorb and neutralize acid gases, or both.

.02 Applicability.

A. (text unchanged)

B. Regulation .07 of this chapter applies to [an] *a Small MWC* that was constructed on or before August 30, 1999 [and has a capacity of at least 35 tons and less than or equal to 250 tons per day].

C. — F.

G. *For federal regulations that are specifically cited and applicable to this chapter, if [If] there is any discrepancy between the terms defined in this chapter and any federal definition in the Clean Air Act, 42 U.S.C. §§7401—7671 (CAA), and 40 CFR Part 60 Subparts A, B, Ea, Eb, and Ec, the federal definition applies.*

H. *Repealed.* [The requirements in Regulation .08-1 of this chapter apply to a person who owns or operates an HMIWI for which construction was commenced on or before June 20, 1996, except as provided in 40 CFR §60.50c(b)—(i).]

I. All provisions of Regulation [.08-1] .08-2 of this chapter and the related HMIWI 111(d)/129 plan approval, 40 CFR Part 62, Subpart V, are applicable[, except as amended or revised under Regulation .08-2 of this chapter and approved by EPA as part of the Maryland HMIWI 111(d)/129 plan].

J. *Regulation .10 of this chapter applies to Large MWCs.*

.03 (text unchanged)

.04 Visible Emissions.

A. In Areas I, II, V, and VI, the following apply:

(1) Except as provided in Regulations .08 and [.08-1] .08-2 of this chapter, a person may not cause or permit the discharge of emissions from any incinerator, other than water in an uncombined form, which is greater than 20 percent opacity;

(2) (text unchanged)

B. — D. (text unchanged)

.05 Particulate Matter.

A. Requirements for Areas I, II, V, and VI.

(1) Calculations. Except as provided in Regulations .08 and [.08-1] .08-2 of this chapter, incinerator or hazardous waste incinerator emissions shall be adjusted to 12 percent carbon dioxide.

(2) Incinerators Constructed Before January 17, 1972. Except as provided in Regulations .08 and [.08-1] .08-2 of this chapter, a person may not cause or permit the discharge into the outdoor atmosphere from any incinerator constructed before January 17, 1972, particulate matter to exceed the following limitations:

(a) — (b) (text unchanged)

(3) Incinerators Constructed on or After January 17, 1972. Except as provided in Regulations .07, .08, and [.08-1] .08-2 of this chapter, a person may not cause or permit the discharge of particulate matter into the outdoor atmosphere from any incinerator or crematory constructed on or after January 17, 1972, to exceed 0.10 grains per standard cubic foot dry 0.10 gr/SCFD (229 mg/dscm).

(4) (text unchanged)

B. Requirements for Areas III and IV.

(1) Calculations. Except as provided in Regulations .08 and [.08-1] .08-2 of this chapter, incinerator or hazardous waste incinerator emissions shall be adjusted to 12 percent carbon dioxide.

(2) Except as provided in Regulations .07, .08, and [.08-1] .08-2 of this chapter, a person may not cause or permit the discharge of particulate matter into the outdoor atmosphere from any incinerator, hazardous waste incinerator, or crematory to exceed the following limitations:

(a) — (b) (text unchanged)

.06 (text unchanged)

.07 Requirements for *Small Municipal Waste Combustors* [with a Capacity of 35 tons or greater per day and less than or equal to 250 Tons Per Day].

A person may not operate a *Small MWC* [municipal waste combustor that has a burning capacity of 35 tons or more per day and less than or equal to 250 tons per day] that was constructed on or before August 30, 1999 which results in violation of the provisions of 40 CFR 62 Subpart JJJ.

.08 (text unchanged)

.08-1 Emission Standards and Requirements for HMIWIs. *Repealed.*

.08-2 Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009.

A. Applicability and Emission Standards. [Notwithstanding the requirements of Regulation .08-1 of this chapter, the] *The* emission standards and requirements of §B(1)—(7) and §C(1)—(6) of this regulation apply to a person who owns or operates an HMIWI subject to 40 CFR Part 60, Subpart Ce, as revised, October 6, 2009.

B. — H. (text unchanged).

.09 (text unchanged)

.10 *NO_x* Requirements for Large Municipal Waste Combustors.

A. *The owner and operator of a Large MWC shall minimize NO_x emissions by operating and optimizing the use of all installed pollution control technology and combustion controls consistent with the technological limitations, manufacturers' specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions (as defined in 40 CFR §60.11(d)) for such equipment and the unit at all times the unit is in operation, including periods of startup and shutdown.*

B. *As of May 1, 2019, the owner or operator of a Large MWC shall meet the following applicable NO_x emission rates:*

<i>Affected Sources</i>	<i>NO_x 24-hour block average emission rate</i>
<i>Montgomery County Resource Recovery Facility</i>	<i>140 ppmv</i>
<i>Wheelabrator Baltimore Inc.</i>	<i>150 ppmv</i>

C. As of May 1, 2020, the owner or operator of a Large MWC shall meet the requirements of §B of this Regulation and the following applicable NO_x emission rates:

Affected Sources	NO _x 30-day rolling average emission rate
Montgomery County Resource Recovery Facility	105 ppmv
Wheelabrator Baltimore Inc.	145 ppmv

D. Startup and Shutdown NO_x Emission Limitations.

(1) As of May 1, 2019, the requirements of §B of this Regulation shall be met at all times, except for periods of startup and shutdown.

(2) As of May 1, 2020, the requirements of §§B and C of this Regulation shall be met at all times, except for periods of startup and shutdown.

(3) During periods of startup and shutdown the following emission limitations shall apply:

(a) For Montgomery County Resource Recovery Facility, a facility wide NO_x emission limit of 202 lbs/hr timed average mass loading over a 24-hour block period.

(b) For Wheelabrator Baltimore Inc., a facility wide NO_x emission limit of 252 lbs/hr timed average mass loading over a 24-hour block period.

E. UNDER CONSIDERATION

F. UNDER CONSIDERATION

G. The owner or operator of a Large MWC shall continuously monitor NO_x emissions with a continuous emission monitoring system in accordance with COMAR 26.11.01.11.

H. Not later than 45 days after the effective date of this Regulation, the owner or operator of a Large MWC shall submit a plan to the Department for approval that demonstrates how the Large MWC will operate installed pollution control technology and combustion controls to meet the requirements of §A of this Regulation. The plan shall summarize the data that will be collected to demonstrate compliance with §A of this Regulation. The plan shall cover all modes of operation, including but not limited to normal operations, startup, and shutdown.

I. Beginning July 1, 2019, the owner or operator of a Large MWC shall submit a quarterly report to the Department containing:

(1) Data, information, and calculations which demonstrate compliance with the NO_x 24-hour block average emission rate as required in §§B and F(2)(f) of this Regulation, as applicable; and

(2) Documented actions taken during periods of startup and shutdown in signed, contemporaneous operating logs.

I. Beginning July 1, 2020, the owner or operator of a Large MWC shall submit a quarterly report to the Department containing data, information, and calculations which demonstrate compliance with the NO_x 30-day rolling average emission rate as required in §§C and F(2)(f) of this Regulation, as applicable.

J. No less than two weeks notice and the opportunity to monitor activities shall be provided to the Department in advance of any optimization procedure, including installation or operation of NO_x emission control technology, for the express purpose of complying with the requirements of §F(2) of this Regulation.

K. Compliance with the NO_x emission standards in §§ B, C, D, E and F of this Regulation shall be demonstrated with a continuous emission monitoring system.

L. Compliance with the NO_x mass loading emission limitation for periods of startup and shutdown in §§D E(2) and F(2)(f) of this Regulation shall be demonstrated by calculating the 24-hr block averages of all hourly average NO_x emission concentrations for all the hours during the 24-hour period that the affected facility is operating, including periods of startup and shutdown.

Title 26 DEPARTMENT OF THE ENVIRONMENT

Subtitle 11 AIR QUALITY

Chapter 09 Control of Fuel-Burning Equipment, Stationary Internal Combustion Engines, and Certain Fuel-Burning Installations

Authority: Environment Article, §§1-101, 1-404, 2-101—2-103, 2-301—2-303, 10-102, and 10-103, Annotated Code of Maryland

.01 — .07 (text unchanged)

.08 Control of NO_x Emissions for Major Stationary Sources.

A. — G. (text unchanged)

H. *Repealed.* [Requirements for Municipal Waste Combustors, and Hospital, Medical, and Infectious Waste Incinerators.]

(1) A person who owns or operates a municipal waste combustor shall install, operate, and maintain a CEM for NO_x emissions.

(2) NO_x emissions from municipal waste combustors may not exceed the NO_x emissions standards in COMAR 26.11.08.07 and COMAR 26.11.08.08 or applicable Prevention of Significant Deterioration limits, whichever is more restrictive.

(3) NO_x emissions from hospital, medical, and infectious waste incinerators as defined in COMAR 26.11.08.01B(18) may not exceed the NO_x emission standards in COMAR 26.11.08.08-1A(2) (250 ppm 24-hour average) as applicable.]

I.— K. (text unchanged)

.09 — .12 (text unchanged)