

1 15A NCAC 02D .1205 is proposed for amendment as follows:
2

3 **15A NCAC 02D .1205 LARGE MUNICIPAL WASTE COMBUSTORS**

4 (a) Applicability. This Rule applies ~~to:~~ to

5 (1) ~~Class I municipal waste combustors, as defined in Rule .1202 of this Section; and~~

6 (2) ~~Large large municipal waste combustors, as defined in Rule .1202 of this Section.~~

7 (b) Definitions. For the purpose of this Rule, the definitions contained in 40 CFR ~~60.31b 60.51b and 40~~
8 ~~CFR 60.1940~~ (except ~~administration~~ administrator means the Director of the Division of Air Quality) shall
9 apply in addition to the definitions in Rule .1202 of this Section.

10 (c) Emission Standards.

11 (1) The emission standards in this Paragraph apply to any municipal waste combustor subject
12 to the requirements of this Rule except where Rule .0524, .1110, or .1111 of this
13 Subchapter applies. However, when Subparagraphs (13) or (14) of this Paragraph and
14 Rule .0524, .1110, or .1111 of this Subchapter regulate the same pollutant, the more
15 restrictive provision for each pollutant shall apply, notwithstanding provisions of Rules
16 .0524, .1110, or .1111 of this Subchapter to the contrary.

17 (2) Particulate Matter. Emissions of particulate matter from each municipal waste combustor
18 shall not ~~exceed 27 milligrams per dry standard cubic meter corrected to seven percent~~
19 ~~oxygen.~~ exceed:

20 (A) before April 28, 2009, 27 milligrams per dry standard cubic meter corrected to
21 seven percent oxygen, and

22 (B) on or after April 28, 2009, 25 milligrams per dry standard cubic meter corrected to
23 seven percent oxygen.

24 (3) Visible Emissions. The emission limit for opacity from ~~any~~ each municipal waste
25 combustor shall not exceed 10 percent (6-minute average) (~~average of 30 6-minute~~
26 ~~averages~~).

27 (4) ~~Sulfur Dioxide.~~

28 (A) ~~Emissions of sulfur dioxide from each class I municipal waste combustor shall be~~
29 ~~reduced by at least 75 percent by weight or volume of potential sulfur dioxide~~
30 ~~emissions or to no more than 31 parts per million by volume corrected to seven~~
31 ~~percent oxygen (dry basis), whichever is less stringent. Compliance with this~~
32 ~~emission limit is based on a 24-hour daily block geometric average concentration~~
33 ~~percent reduction.~~

34 (B) ~~Emissions of sulfur dioxide from each large municipal waste combustor shall be:~~
35 (i) ~~reduced by at least 75 percent by weight or volume, or to no more than 31~~
36 ~~parts per million by volume corrected to seven percent oxygen (dry~~

1 basis), whichever is less stringent, by August 1, 2000. Compliance with
2 this emission limit is based on a 24-hour daily geometric mean; and
3 (ii) reduced by at least 75 percent by weight or volume, or to no more than
4 29 parts per million by volume corrected to seven percent oxygen (dry
5 basis), whichever is less stringent, by August 1, 2002. Compliance with
6 this emission limit is based on a 24-hour daily geometric mean.

7 (4) Sulfur Dioxide. Emissions of sulfur dioxide from each municipal waste combustor shall be
8 reduced by at least 75 percent reduction or to no more than:

- 9 (A) before April 28, 2009, 31 parts per million dry volume, and
- 10 (B) on or after April 28, 2009, 29 parts per million dry volume.

11 Percent reduction shall be determined from continuous emissions monitoring data and
12 according to Reference Method 19, Section 12.5.4 of 40 CFR Part 60 Appendix A-7.
13 Compliance with either standard, whichever is less stringent, is based on a 24-hour daily
14 block geometric average of concentration data corrected to seven percent oxygen (dry
15 basis).

16 (5) Nitrogen Oxides. Oxide.

17 (A) Emissions of nitrogen oxide from each class I municipal waste combustor shall
18 not exceed the emission limits in Table 3 40 CFR 60, Subpart BBBB.

19 (B) Emissions of nitrogen oxides from each large municipal waste combustor shall
20 not exceed the emission limits in Table 1 of Paragraph (d) of 40 CFR 60.33b. to
21 Subpart Cb of Part 60 "Nitrogen Oxide Guidelines for Designated Facilities."

22 Nitrogen oxide emissions averaging is allowed as specified in 40 CFR
23 60.33b(d)(1)(i) through (d)(1)(v). Nitrogen oxide emissions averaging shall not
24 exceed Table 2 to Subpart Cb of Part 60 "Nitrogen Oxides Limits for Existing
25 Designated Facilities Included in an Emission Averaging Plan at a Municipal
26 Waste Combustor Plant."

27 (C) In addition to the requirements of Part (B) of this Subparagraph, emissions of
28 nitrogen oxide from fluidized bed combustors located at a large municipal waste
29 combustor shall not exceed 180 parts per million by volume, corrected to seven
30 percent oxygen, by August 1, 2002. If nitrogen oxide emissions averaging is used
31 as specified in 40 CFR 60.33b(d)(1)(i) through (d)(1)(V), emissions of nitrogen
32 oxide from fluidized bed combustors located at a large municipal waste
33 combustor shall not exceed 165 parts per million by volume, corrected to seven
34 percent oxygen, by August 1, 2002.

35 (6) Odorous Emissions. Each Any incinerator subject to this Rule shall comply with Rule
36 .1806 of this Subchapter for the control of odorous emissions.

- 1 (7) ~~Hydrogen Chloride.~~
- 2 (A) ~~Emissions of hydrogen chloride from each class I municipal waste combustor~~
- 3 ~~shall be reduced by at least 95 percent by weight or volume of potential hydrogen~~
- 4 ~~chloride emissions or to no more than 31 parts per million by volume corrected to~~
- 5 ~~seven percent oxygen (dry basis), whichever is less stringent. Compliance with~~
- 6 ~~this Part shall be determined by averaging emissions over a one-hour period.~~
- 7 (B) ~~Emissions of hydrogen chloride from each large municipal waste combustor shall~~
- 8 ~~be:~~
- 9 (i) ~~reduced by at least 95 percent by weight or volume, or to no more than~~
- 10 ~~31 parts per million by volume, corrected to seven percent oxygen (dry basis),~~
- 11 ~~whichever is less stringent, by August 1, 2000. Compliance with this emission~~
- 12 ~~limit shall be determined by averaging emissions over a one-hour period; and~~
- 13 (ii) ~~reduced by at least 95 percent by weight or volume, or to no more than~~
- 14 ~~29 parts per million by volume, corrected to seven percent oxygen (dry~~
- 15 ~~basis), whichever is less stringent, by August 1, 2002. Compliance with~~
- 16 ~~this Part emission limit shall be determined by averaging emissions over~~
- 17 ~~a one-hour period.~~
- 18 (7) Hydrogen Chloride. Emissions of hydrogen chloride from each municipal waste
- 19 combustor shall be reduced by at least 95 percent, or shall not exceed, as determined by
- 20 Reference Method 26 or 26A of 40 CFR Part 60 Appendix A-8, more than:
- 21 (A) before April 28, 2009, 31 parts per million dry volume, and
- 22 (B) on or after April 28, 2009, 29 parts per million dry volume.
- 23 Compliance with this Subparagraph shall be determined by averaging emissions over
- 24 three one-hour test runs, with paired data sets for percent reduction and correction to
- 25 seven percent oxygen.
- 26 (8) Mercury Emissions. Emissions of mercury from each municipal waste combustor shall be
- 27 reduced by at least 85 percent by weight of potential mercury emissions or shall not
- 28 exceed, as determined by Reference Method 26 or 26A of 40 CFR Part 60 Appendix A-8,
- 29 more than 0.08 milligrams per dry standard cubic, corrected to seven percent oxygen,
- 30 whichever is less stringent. than:
- 31 (A) before April 28, 2009, 31 parts per million, and
- 32 (B) on or after April 28, 2009, 29 parts per million.
- 33 Compliance with this Subparagraph shall be determined by averaging emissions over a
- 34 one-hour period three one hour test runs, with paired data set for percent reduction and
- 35 correction to seven percent oxygen.
- 36 (9) Lead Emissions.

- 1 (A) ~~Emissions of lead from each class I municipal waste combustor shall not exceed~~
2 ~~0.49 milligrams per dry standard cubic meter, corrected to seven percent oxygen.~~
- 3 (B) ~~Emissions of lead from each large municipal waste combustor shall not exceed~~
4 ~~0.49 milligrams per dry standard cubic meter, corrected to seven percent oxygen,~~
5 ~~by August 1, 2000 and shall not exceed 0.44 milligrams per dry standard cubic~~
6 ~~meter, and corrected to seven percent oxygen by August 1, 2002. exceed, as~~
7 ~~determined by Reference Method 29 of 40 CFR Part 60 Appendix A-8:~~
- 8 (A) before April 28, 2009, 440 micrograms, per dry standard cubic meter and
9 corrected to seven percent oxygen, and
- 10 (B) on or after April 28, 2009, 400 micrograms per dry standard cubic meter and
11 corrected to seven percent oxygen.
- 12 (10) Cadmium Emissions. Emissions of cadmium from each municipal waste combustor shall
13 not exceed, as determined by Reference Method 29 of 40 CFR Part 60 Appendix A-8,
14 ~~0.040 milligrams per dry standard cubic meter, corrected to seven percent oxygen.~~
- 15 (A) before April 28, 2009, 40 micrograms per dry standard cubic meter and corrected
16 to seven percent oxygen, and
- 17 (B) on or after April 28, 2009, 35 micrograms per dry standard cubic meter and
18 corrected to seven percent oxygen.
- 19 (11) Dioxins and Furans. Emissions of dioxins and furans from each municipal waste
20 ~~combustor: shall not exceed:~~
- 21 (A) that employ electrostatic precipitator-based emission control system, shall not
22 exceed before April 28, 2009, 60 nanograms and shall not exceed on or after
23 April 28, 2009, 35 nanograms per dry standard cubic meter (total mass) (total
24 mass dioxins and furans) per dry standard cubic meter (total mass dioxins and
25 furans) corrected to seven percent oxygen for facilities that employ an
26 electrostatic precipitator-based emission control system, or
- 27 (B) that does not employ an electrostatic precipitator-based emission control system,
28 shall not exceed 30 nanograms per dry standard cubic meter (total mass) (total
29 mass dioxins and furans) corrected to seven percent oxygen for facilities that do
30 not employ an electrostatic precipitator-based emission control system.
- 31 Compliance with this Subparagraph shall be determined by averaging emissions over
32 three test runs with a minimum four hour run duration, performed in accordance with
33 Reference Method 23 of 40 CFR Part 60 Appendix A-7, and corrected to seven percent
34 oxygen.
- 35 (12) Fugitive Ash.

1 (A) On or after the date on which the initial performance test is completed, no owner
2 or operator of a municipal waste combustor shall cause to be discharged to the
3 atmosphere visible emissions of combustion ash from an ash conveying system
4 (including conveyor transfer points) in excess of five percent of the observation
5 period (i.e., nine minutes per three-hour block period), as determined by visible
6 emission observations using EPA Reference Method Reference Method 22 of 40
7 CFR 60 Appendix A-7, observations as specified in 40 CFR 60.58b(k), except as
8 provided in Part (B) of this Subparagraph. Compliance with this Part shall be
9 determined from at least three 1-hour observation periods when the facility
10 transfers fugitive ash from the municipal waste combustion unit to the area where
11 the fugitive ash is stored or loaded into containers or trucks.

12 (B) The emission limit specified in Part (A) of this Subparagraph covers visible
13 emissions discharged to the atmosphere from buildings or enclosures, not the
14 visible emissions discharged inside of the building or enclosures, of ash
15 conveying systems.

16 (13) Toxic Emissions. The owner or operator of a municipal waste combustor shall
17 demonstrate compliance with Section .1100 of this Subchapter according to 15A NCAC
18 02Q .0700.

19 (14) Ambient Standards.

20 (A) In addition to the ambient air quality standards in Section .0400 of this
21 Subchapter, the following are annual average ambient air quality standards ~~;~~
22 ~~which are an annual average,~~ in milligrams per cubic meter at 77 degrees F (25
23 degrees C) and 29.92 inches (760 mm) of mercury ~~pressure; pressure, and which~~
24 ~~are increments above background concentrations, shall apply aggregately to all~~
25 ~~incinerators at a facility subject to this Rule:~~

- 26 (i) arsenic and its compounds ~~2.3x10⁻⁷~~ 2.3x10⁻⁷.
- 27 (ii) beryllium and its compounds ~~4.1x10⁻⁶~~ 4.1x10⁻⁶.
- 28 (iii) cadmium and its compounds ~~5.5x10⁻⁶~~ 5.5x10⁻⁶, and
- 29 (iv) chromium (VI) and its compounds ~~8.3x10⁻⁸~~ 8.3x10⁻⁸.

30 These are increments above background concentrations and shall apply
31 aggregately to all incinerators at a facility subject to this Rule.

32 (B) The owner or operator of a facility with incinerators subject to this Rule shall
33 demonstrate compliance with the ambient standards of ~~Subparts (i) through (iv)~~
34 ~~of Part (A) of this Subparagraph~~ by following the procedures set out in Rule .1106
35 of this Subchapter. Modeling demonstrations shall comply with the good
36 engineering practice stack height requirements of Rule .0533 of this Subchapter.

1 (C) The emission rates computed or used under Part (B) of this Subparagraph that
2 demonstrate compliance with the ambient standards under Part (A) of this
3 Subparagraph shall be specified as a permit condition for the facility with
4 incinerators as their allowable emission limits unless Rule .0524, .1110, or .1111
5 of this Subchapter requires more restrictive rates.

6 (15) The emission standards of Subparagraphs (1) through ~~(12)~~ (14) of this Paragraph shall
7 apply at all times except during periods of municipal waste combustion unit startup,
8 shutdown, or malfunction that last no more than three hours.

9 (d) Operational Standards.

10 (1) The operational standards in this Rule do not apply to any incinerator subject to this Rule
11 when applicable operational standards in Rule .0524, .1110, or .1111 of this Subchapter
12 ~~applies~~ apply.

13 (2) Each municipal waste combustor shall meet the following operational standards:

14 (A) The concentration of carbon monoxide at the municipal waste combustor outlet
15 shall not exceed the applicable emissions level contained in ~~concentration in:~~

16 (i) ~~table Table 3 of 40 CFR 60.34b(a) for large municipal waste combustors.~~
17 to Subpart Cb of Part 60 "Municipal Waste Combustor Operating
18 Guidelines." ~~The municipal waste combustor technology named in this~~
19 ~~table is defined in 40 CFR 60.51b; and~~

20 (ii) ~~table 5 of 40 CFR 60 Subpart BBBB. The municipal waste combustor~~
21 ~~technology named in this table is defined in 40 CFR 60.1940.~~

22 (B) The load level shall not exceed 110 percent of the maximum demonstrated
23 municipal waste combustor unit load ~~(four-hour block average).~~ determined from
24 the highest 4-hour block arithmetic average achieved during four consecutive
25 hours in the course of the most recent dioxins and furans stack test that
26 demonstrates compliance with the emission limits of Paragraph (c) of this rule.

27 (C) The combustor operating temperature at which the combustor operates
28 measured at each ~~the~~ particulate matter control device inlet shall not exceed 63
29 degrees F above the maximum demonstrated particulate matter control device
30 temperature ~~(four-hour block average).~~ from the highest 4-hour block arithmetic
31 average measured at the inlet of the particulate matter control device during four
32 consecutive hours in the course of the most recent dioxins and furans stack test
33 that demonstrates compliance with the emission limits of Paragraph (c) of this
34 rule.

35 (D) The owner or operator of a municipal waste combustor with activated carbon
36 control system to control dioxins and furans or mercury emissions shall maintain

1 an eight-hour block average carbon feed rate at or above the highest average
2 level established during the most recent dioxins and furans or mercury ~~test~~. ~~test~~
3 ~~and shall evaluate total carbon usage for each calendar quarter. The total amount~~
4 ~~of carbon purchased and delivered to the municipal waste combustor shall be at~~
5 ~~or above the required quarterly usage of carbon and shall be calculated as~~
6 ~~specified in equation four or five in 40 CFR 60.1935(f).~~

7 (E) The owner or operator of a municipal waste combustor shall be exempted from
8 limits on load level, temperature at the inlet of the particular matter control device,
9 and carbon feed rate during:

- 10 (i) the annual tests for dioxins and furans;
11 (ii) the annual mercury tests for carbon feed requirements only;
12 (iii) the two weeks preceding the annual tests for dioxins and furans; and
13 (iv) the two weeks preceding the annual mercury tests (for carbon feed rate
14 requirements only). ~~only~~; and
15 (v) ~~any activities to improve the performance of the municipal waste~~
16 ~~combustor or its emission control including performance evaluations and~~
17 ~~diagnostic or new technology testing.~~

18 (F) The Director shall exempt the owner or operator of a municipal waste combustor
19 from limits on load level, temperature at the inlet of the particular matter control
20 device, and carbon feed rate when the Director approves test activities to:

- 21 (i) evaluate system performance.
22 (ii) test new technology or control technology.
23 (iii) perform diagnostic testing;
24 (iv) perform other activities to improve the performance; or
25 (v) perform other activities to advance the state of the art for emissions
26 controls.

27 (3) ~~Except during start-up where the procedure has been approved according to Rule~~
28 ~~.0535(g) of this Subchapter, waste material shall not be loaded into any incinerator~~
29 ~~subject to this Rule when the temperature is below the minimum required temperature.~~
30 ~~Start-up procedures may be determined on a case-by-case basis according to Rule~~
31 ~~.0535(g) of this Subchapter and Subparagraph (4) of this Paragraph. Incinerators subject~~
32 ~~to this Rule shall have automatic auxiliary burners that are capable of maintaining the~~
33 ~~required minimum temperature in the secondary chamber excluding the heat content of~~
34 ~~the wastes.~~

1 (3) (4) The operational standards of this Paragraph apply at all times except during periods of
2 municipal waste combustor startup, shutdown, or malfunction that last no more than ~~than~~:
3 ~~(A) three hours for Class I combustors; or~~
4 (B) three hours, hours except as specified in 60.58b(a)(1)(iii) for large municipal
5 waste combustors with the following exception: For the purpose of compliance
6 with the carbon monoxide emission limits in Subparagraph (2) of this Paragraph,
7 if a loss of boiler water level control (e.g., boiler waterwall tube failure) or a loss of
8 combustion air control (e.g., loss of combustion air fan, induced draft fan,
9 combustion grate bar failure) is determined to be a malfunction according to 15A
10 NCAC 2D .0536, the duration of the malfunction period is limited to 15 hours per
11 occurrence. During such periods of malfunction, monitoring data shall be
12 dismissed or excluded from compliance calculations, but shall be recorded and
13 reported in accordance with the provisions of Paragraph (f) of this Rule.

14 (e) Test Methods and Procedures.

15 (1) The test methods and procedures described in 15A NCAC 02D .0501 and in Parts (A)
16 through (K) of this Subparagraph shall be used to show compliance:

17 (A) 40 CFR 60.58b(b) for continuous emissions monitoring of oxygen or carbon
18 monoxide at each location where carbon monoxide, sulfur dioxide, or nitrogen
19 oxides are monitored;

20 (B) 40 CFR 60.58b(c) for determination of compliance with particulate emission
21 limits;

22 (C) 40 CFR 60.58b(d) for determination of compliance with emission limits for
23 cadmium, lead and mercury;

24 (D) 40 CFR 60.58b(e) for determination of compliance with sulfur dioxide emission
25 limits from continuous emissions monitoring data;

26 (E) 40 CFR 60.58b(f) for determination of compliance with hydrogen chloride
27 emission limits;

28 (F) 40 CFR 60.58b(g) for determination of compliance with dioxin/furan emission
29 limits;

30 (G) 40 CFR 60.58b(h) for determination of compliance with nitrogen oxides limits
31 from continuous emission monitoring data;

32 (H) 40 CFR 60.58b(i) for determination of compliance with operating requirements
33 under Paragraph (d);

34 (I) 40 CFR 60.58b(j) for determination of municipal waste combustor unit capacity;

35 (J) 40 CFR 60.58b(k) for determination of compliance with the fugitive ash emission
36 limit; and

1 (K) 40 CFR 60.58b(m)(1) to determine parametric monitoring for carbon injection
2 control systems.

3 (2) ~~Rule .0501 of this Subchapter and in Method 29 of 40 CFR Part 60 Appendix A-8 A and~~
4 ~~40 CFR Part 61 Appendix B shall be used to determine compliance with emission rates.~~
5 Method 29 of 40 CFR Part 60 shall be used to determine emission rates for metals.
6 However, Method 29 shall be used only to collect sample for chromium (VI), and SW 846
7 Method 0060 shall be used for the analysis.

8 (3) The owner or operator will conduct initial and annual stack tests to measure the emission
9 levels of dioxins and furans, cadmium, lead, mercury, beryllium, arsenic, chromium (VI),
10 particulate matter, opacity, hydrogen chloride, and fugitive ash. Annual stack tests for the
11 same pollutants will be conducted no later than 12 months after the previous stack test.

12 ~~(2) The owner or operator of a large municipal waste combustor shall do compliance and~~
13 ~~performance testing according to 40 CFR 60.58b.~~

14 ~~(3) For large municipal waste combustors that achieve a dioxin and furan emission level less~~
15 ~~than or equal to 15 nanograms per dry standard cubic meter total mass, corrected to~~
16 ~~seven percent oxygen, the performance testing shall be performed according to the~~
17 ~~testing schedule specified in 40 CFR 60.58b(g)(5)(iii).~~

18 For class I municipal waste combustors the performance testing shall be performed
19 according to the testing schedule specified in 40 CFR 60.1785 to demonstrate
20 compliance with the applicable emission standards in Paragraph (c) of this Rule.

21 (4) The testing frequency for dioxin and furan may be reduced if the conditions under 40 CFR
22 60.58b(g)(5)(iii) are met and the owner or operator notifies the Director of the intent to
23 begin the reduced dioxin and furan performance testing schedule during the following
24 calendar year.

25 (5) The owner or operator of an affected facility may request that compliance with the dioxin
26 and furan emission limit be determined using carbon dioxide measurements corrected to
27 an equivalent of 7 percent oxygen. The relationship between oxygen and carbon dioxide
28 levels for the affected facility shall be established as specified in 40 CFR 60.58b(b)(6).

29 ~~(6)~~(4) The Director may require the owner or operator of any incinerator subject to this Rule to
30 test his incinerator to demonstrate compliance with the emission standards in Paragraph
31 (c) of this Rule.

32 (f) Monitoring, Recordkeeping, and Reporting.

33 (1) ~~The owner or operator of an incinerator subject to the requirements of this Rule a~~
34 ~~municipal waste combustor shall comply with the monitoring, recordkeeping, and~~
35 reporting requirements established pursuant to Section .0600 of this Subchapter.

- 1 (2) The owner or operator of ~~an incinerator~~ a municipal waste combustor that has installed
2 air pollution abatement equipment to reduce emissions of hydrogen chloride shall install,
3 operate, and maintain continuous monitoring equipment to measure pH for wet scrubber
4 systems and rate of alkaline injection for dry scrubber systems.
- 5 (3) The owner or operator of a municipal waste combustor shall:
- 6 (A) install, calibrate, operate, and maintain, for each municipal waste combustor,
7 continuous emission monitors to determine; ~~determine the following~~:
- 8 (i) ~~opacity according to 40 CFR 60.58b(c); 60.58b for large municipal waste~~
9 ~~combustors and 40 CFR 60.1720 for class I municipal waste combustors;~~
- 10 (ii)(i) sulfur dioxide emissions, ~~according to 40 CFR 60.58b(e); 60.58b for large~~
11 ~~municipal waste combustors and 40 CFR 60.1720 for class I municipal~~
12 ~~waste combustors;~~
- 13 (iii)(ii) nitrogen oxides emissions, ~~s~~~~according to 40 CFR 60.58b(h); 60.58b for~~
14 ~~large municipal waste combustors and 40 CFR 60.1720 for class I~~
15 ~~municipal waste combustors; and~~
- 16 (iv) oxygen or carbon dioxide emissions; ~~according to 40 CFR 60.58b(b)~~
17 ~~60.58b for large municipal waste combustors and 40 CFR 60.1720 for~~
18 ~~class I municipal waste combustors; and~~
- 19 (v) ~~temperature level in the primary chamber and, where there is a~~
20 ~~secondary chamber, in the secondary chamber;~~
- 21 (B) monitor the load level of each municipal waste combustor according to 40 CFR
22 60.58b(i)(6); ~~each class I municipal waste combustor according to 40 CFR~~
23 ~~60.1810;~~
- 24 (C) monitor the temperature of each municipal waste combustor ~~the gases~~ flue gases
25 at the inlet of the particulate matter air pollution control device according to 40
26 CFR 60.58b(i)(7); ~~60.1815;~~
- 27 (D) monitor carbon feed rate of each municipal waste combustor carbon delivery
28 system and total plant predicted quarterly usage if activated carbon is used to
29 abate dioxins and furans or mercury emissions according to 40 CFR
30 60.58b(m)(2) and (m)(3); ~~60.1820;~~
- 31 (E) maintain records of the information listed in 40 CFR 60.59b(d)(1) through (d)(15)
32 ~~for large municipal waste combustors and in 40 CFR 60.1840 through 1855 for~~
33 ~~class I municipal waste combustors for a period of at least five years;~~
- 34 (F) ~~following the initial compliance tests as required under Paragraph (e) of this Rule,~~
35 ~~submit the information specified in 40 CFR 60.59b(f)(1) through (f)(6) for large~~

1 ~~municipal waste combustors and in 40 CFR 60.1875 for class I municipal waste~~
2 ~~combustors, in the initial performance test report;~~

3 ~~(F)(G)~~ following the first year of municipal combustor operation, submit an annual report
4 specified in 40 CFR 60.59b(g) for ~~large~~ municipal waste combustors ~~and in 40~~
5 ~~CFR 60.1885 for class I municipal waste combustors, as applicable,~~ no later than
6 February 1 of each year following the calendar year in which the data were
7 collected. Once the unit is subject to permitting requirements under 15A NCAC
8 02Q .0500, Title V Procedures, the owner or operator of an affected facility shall
9 submit these reports semiannually; and

10 ~~(H)(G)~~ submit a semiannual report specified in 40 CFR 60.59b(h) for ~~large~~ municipal
11 ~~waste combustors and in 40 CFR 60.1900 for class I municipal waste~~
12 ~~combustors,~~ for any recorded pollutant or parameter that does not comply with
13 the pollutant or parameter limit specified in this Section, according to the
14 schedule specified in 40 CFR 60.59b(h)(6).

15 (g) Excess Emissions and Start-up and Shut-down. All municipal waste combustors subject to this Rule
16 shall comply with Rule .0535, Excess Emissions Reporting and Malfunctions, of this Subchapter.

17 (h) Operator Training and Certification.

18 ~~(1) — By January 1, 2000, or six months after the date of start up of a class I municipal waste~~
19 ~~combustor, whichever is later, and by July 1, 1999 or six months after the date of start up~~
20 ~~of a large municipal waste combusto, whichever is later:~~

21 ~~(1)(A) — Each chief facility operator and shift supervisor of a municipal waste combustor shall~~
22 ~~obtain and maintain a current provisional operator certification within six months after he~~
23 ~~transfers to the municipal waste combustion unit or six months after he is hired to work at~~
24 ~~the municipal waste combustor unit. from the American Society of Mechanical Engineers~~
25 ~~(ASME QRO-1-1994).~~

26 ~~(2) — Each chief facility operator and shift supervisor shall obtain a full certification or be~~
27 ~~scheduled to take the certification exam within six months after he transfers to the~~
28 ~~municipal waste combustion unit or six months after he is hired to work at the municipal~~
29 ~~waste combustor unit.~~

30 ~~(3)(B) — Each facility operator and shift supervisor of a municipal waste combustor shall have~~
31 ~~completed full certification exam or ~~shall have~~ scheduled a full certification exam with the~~
32 ~~American Society of Mechanical Engineers (ASME QRO-1-1994).~~

33 ~~(4)(C) — The owner or operator of a municipal waste combustor plant shall not allow the facility to~~
34 ~~be operated at any time unless one of the following persons is on duty at the affected~~
35 ~~facility:~~

36 ~~(A)(i)~~ a fully certified chief facility operator;

1 (B)(ii) a provisionally certified chief facility operator who is scheduled to take the full
2 certification exam; ~~exam according to the schedule specified in Part (B) of this~~
3 ~~Subparagraph;~~

4 (C)(iii) a fully certified shift supervisor; or

5 (D)(iv) a provisionally certified shift supervisor who is scheduled to take the full
6 certification exam. ~~exam according to the schedule specified in Part (B) of this~~
7 ~~Subparagraph.~~

8 (5)(D) ~~If one of the persons listed in this Subparagraph leaves~~ the certified chief facility operator
9 and certified shift supervisor are both unavailable, the large municipal waste combustor
10 during his operating shift, a provisionally certified control room operator who is scheduled
11 to take the full certification exam, who is onsite at the affected facility may fulfill the
12 requirements of this Subparagraph. Part.

13 (E) ~~If one of the persons listed in this Subparagraph leaves the class I municipal~~
14 ~~waste combustor during his operating shift, a provisionally certified control room~~
15 ~~operator who is onsite at the affected facility may fulfill the requirements specified~~
16 ~~in 40 CFR 60.1685.~~

17 (6) All chief facility operators, shift supervisors, and control room operators shall complete the
18 EPA municipal waste combustor training course. This requirement does not apply to chief
19 facility operators, shift supervisors, and control room operators who have obtained full
20 certification from the American Society of Mechanical Engineers on or before July 1,
21 1998. Furthermore, the owner or operator may request that the Director waive the
22 requirement for chief facility operators, shift supervisors, and control room operators who
23 have obtained provisional certification from the American Society of Mechanical
24 Engineers on or before July 1, 1998.

25 (i) Training

26 (1)(2) The owner or operator of each municipal waste combustor shall develop and update on a
27 yearly basis a site-specific operating manual that shall at the minimum address the
28 elements of municipal waste combustor unit operation specified in 40 CFR 60.54b(e)(1)
29 through (e)(11). The operating manual shall be kept in a readily accessible location for
30 all persons required to undergo training under Subparagraph (2) of this Paragraph. The
31 operating manual and records of training shall be available for inspection by the personnel
32 of the Division on request.

33 (2)(3) ~~By July 1, 1999, or six~~ Six months after the date of start-up of a municipal waste
34 ~~combustor, whichever is later, the~~ The owner or operator of the municipal waste
35 combustor plant shall establish a training program to review the operating manual
36 according to the schedule specified in Parts (A) and (B) of this Subparagraph with each

1 person who has responsibilities affecting the operation of the facility including chief facility
2 operators, shift supervisors, control room operators, ash handlers, maintenance
3 personnel, and crane and load handlers; comply with the following requirements:

4 (A) A date prior to the day when the person assumes responsibilities affecting
5 municipal waste combustor unit operation; and

6 (B) Annually, following the initial training required by Part (A) of this Subparagraph.

7 ~~(A) All chief facility operators, shift supervisors, and control room operators shall~~
8 ~~complete the EPA municipal waste combustor training course.~~

9 ~~(i) The requirements specified in Part (A) of this Subparagraph shall not~~
10 ~~apply to chief facility operators, shift supervisors and control room~~
11 ~~operators who have obtained full certification from the American Society~~
12 ~~of Mechanical Engineers on or before July 1, 1998.~~

13 ~~(ii) As provided under 40 CFR 60.39b(c)(4)(iii)(B), the owner or operator may~~
14 ~~request that the Administrator waive the requirement specified in Part (A)~~
15 ~~of this Subparagraph for the chief facility operators, shift supervisors, and~~
16 ~~control room operators who have obtained provisional certification from~~
17 ~~the American Society of Mechanical Engineers on or before July 1, 1998.~~

18 ~~(B) The owner or operator of each municipal waste combustor shall establish a~~
19 ~~training program to review the operating manual, according to the schedule~~
20 ~~specified in Subparts (i) and (ii) of this Part, with each person who has~~
21 ~~responsibilities affecting the operation of an affected facility, including the chief~~
22 ~~facility operators, shift supervisors, control room operators, ash handlers,~~
23 ~~maintenance personnel, and crane-load handlers.~~

24 ~~(i) Each person specified in Part (B) of this Subparagraph shall undergo~~
25 ~~initial training no later than the date specified in Items (I) through (III)(II)~~
26 ~~of this Subpart, whichever is later.~~

27 ~~(I) The date six months after the date of start-up of the affected~~
28 ~~facility; or~~

29 ~~(II) July 1, 1999; or~~

30 ~~(III)(II) A date prior to the day when the person assumes~~
31 ~~responsibilities affecting municipal waste combustor unit~~
32 ~~operation.~~

33 ~~(ii) Annually, following the initial training required by Subpart (i) of this Part.~~

34 ~~(C) The operating manual required by Subparagraph (2) of this Paragraph shall be~~
35 ~~updated continually and be kept in a readily accessible location for all persons~~
36 ~~required to undergo training under Part (B) of this Subparagraph. The operating~~

1 manual and records of training shall be available for inspection by the personnel
2 of the Division on request.

3 (D) — The operating manual of class I municipal waste combustors shall contain
4 requirements specified in 40 CFR 60.1665 in addition to requirements of Part (C)
5 of this Subparagraph.

6 (4) — The referenced ASME exam in this Paragraph is hereby incorporated by reference and
7 includes subsequent amendments and editions. Copies of the referenced ASME exam
8 may be obtained from the American Society of Mechanical Engineers (ASME), 22 Law
9 Drive, Fairfield, NJ 07007, at a cost of forty nine dollars (\$49.00).

10 (i) ~~Compliance Schedules.~~

11 (1) — The owner or operator of a large municipal waste combustor shall choose one of the
12 following three compliance schedule options:

13 (A) — comply with all the requirements or close before August 1, 2000;

14 (B) — comply with all the requirements before three years following the date of
15 issuance of a revised construction and operation permit, if permit modification is
16 required, or after August 1, 2000, but before August 1, 2002, if a permit
17 modification is not required. If this option is chosen, then the owner or operator of
18 the facility shall submit to the Director measurable and enforceable incremental
19 steps of progress towards compliance which include:

20 (i) — a date by which contracts for the emission control system or equipment
21 shall be awarded or orders issued for purchase of component parts;

22 (ii) — a date by which on-site construction, installation, or modification of
23 emission control equipment shall begin;

24 (iii) — a date by which on-site construction, installation, or modification of
25 emission control equipment shall be completed;

26 (iv) — a date for initial start-up of emissions control equipment;

27 (v) — a date for initial performance test(s) of emission control equipment; and

28 (vi) — a date by which the municipal waste combustor shall be in compliance
29 with this Rule, which shall be no later than three years from the issuance
30 of the permit; or

31 (C) — close between August 1, 2000, and August 1, 2002. If this option is chosen then
32 the owner or operator of the facility shall submit to the Director a closure
33 agreement which includes the date of the plant closure.

34 (2) — All large municipal waste combustors for which construction, modification, or
35 reconstruction commenced after June 26, 1987, but before September 19, 1994, shall
36 comply with the emission limit for mercury specified in Subparagraph (c)(8) of this Rule

1 and the emission limit for dioxin and furan specified in Subparagraph (c)(11) of this Rule
2 within one year following issuance of a revised construction and operation permit, if a
3 permit modification is required, or by August 1, 2000, whichever is later.

4 ~~(3) The owner or operator of a class I municipal waste combustor shall choose one of the~~
5 ~~following four compliance schedule options:~~

6 ~~(A) comply with all requirements of this Rule beginning July 1, 2002;~~

7 ~~(B) comply with all requirements of this Rule by July 1, 2002 whether a permit~~
8 ~~modification is required or not. If this option is chosen, then the owner or operator~~
9 ~~shall submit to the Director along with the permit application if a permit application~~
10 ~~is needed or by September 1, 2002 if a permit application is not needed a~~
11 ~~compliance schedule that contains the following increments of progress:~~

12 ~~(i) a final control plan as specified in 40 CFR 60.1610;~~

13 ~~(ii) a date by which contracts for the emission control system or equipment~~
14 ~~shall be awarded or orders issued for purchase of component parts;~~

15 ~~(iii) a date by which onsite construction, installation, or modernization of~~
16 ~~emission control system or equipment shall begin;~~

17 ~~(iv) a date by which onsite construction, installation, or modernization of~~
18 ~~emission control system or equipment shall be completed; and~~

19 ~~(v) a date by which the municipal waste combustor shall be in compliance~~
20 ~~with this Rule, which shall be no later no later than December 1, 2004;~~

21 ~~(C) comply with all requirements of this Rule by closing the combustor by July 1, 2002~~
22 ~~and then reopening it. If this option is chosen the owner or operator shall:~~

23 ~~(i) meet increments of progress specified in 40 CFR 60.1585, if the class I~~
24 ~~combustor is closed and then reopened prior to the final compliance date;~~
25 ~~and~~

26 ~~(ii) complete emissions control retrofit and meet the emission limits and~~
27 ~~good combustion practices on the date that the class I combustor~~
28 ~~reopens operation if the class I combustor is closed and then reopened~~
29 ~~after the final compliance date; or~~

30 ~~(D) comply by permanently closing the combustor. If this option is chosen the owner~~
31 ~~or operator shall:~~

32 ~~(i) submit a closure notification, including the date of closure, to the Director~~
33 ~~by July 1, 2002 if the class I combustor is to be closed on or before~~
34 ~~September 1, 2002; or~~

