



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

**BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT**

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

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|--|--------------------------|
| Title V Permit Number | 075-0245-TV |
| Client/ Sequence /Town/Premises Numbers | 5497/002/075/0158 |
| Date Issued | August 22, 2018 |
| Permit Revision Issue Date | March 1, 2019 |
| Expiration Date | August 22, 2023 |

Corporation:

Materials Innovation and Recycling Authority

Premises Location:

*Connecticut Solid Waste System Resources Recovery Facility
Reserve Road, Gate 20
Hartford, Connecticut 06114*

Name of Responsible Official and Title:

Thomas D. Kirk, President

All the following attached pages, 2 through 51, are hereby incorporated by reference into this Title V Operating Permit.

/s/ Tracy Babbidge for
Katherine S. Dykes
Commissioner

March 1, 2019
Date

TABLE OF CONTENTS

| | PAGE |
|--|------|
| List of Abbreviations/Acronyms | 4 |
| Section I. Premises Information/Description | |
| A. Premises Information | 6 |
| B. Premises Description | 6 |
| Section II. Emissions Units Information | |
| A. Emissions Units Description - Table II.A.1 | 8 |
| B. Operating Scenario Identification - Table II.B | 8 |
| Section III. Applicable Requirements and Compliance Demonstration | |
| A. Emissions Units 1, 2, and 3 – Three CE Power Systems VU-40 MWCs | 10 |
| B. Emissions Unit 4 – Ash Handling System | 39 |
| C. Grouped Emissions Unit 5 (GEU-5) – Natural Gas Fired Boilers | 41 |
| D. Premises-Wide General Requirements | 42 |
| Section IV. Compliance Schedule - Table IV | 44 |
| Section V. State Enforceable Terms and Conditions | 45 |
| Section VI. Title V Requirements | |
| A. Submittals to the Commissioner & Administrator | 46 |
| B. Certifications [RCSA §22a-174-33(b)] | 46 |
| C. Signatory Responsibility [RCSA §22a-174-2a(a)] | 46 |
| D. Additional Information [RCSA §22a-174-33(j)(1)(X)] | 47 |
| E. Monitoring Reports [RCSA §22a-174-33(o)(1)] | 47 |
| F. Premises Records [RCSA §22a-174-33(o)(2)] | 47 |
| G. Progress Reports [RCSA §22a-174-33(q)(1)] | 48 |
| H. Compliance Certifications [RCSA §22a-174-33(q)(2)] | 48 |
| I. Permit Deviation Notifications [RCSA §22a-174-33(p)] | 49 |
| J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)] | 49 |
| K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)] | 48 |
| L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)] | 48 |
| M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)] | 49 |
| N. Permit Availability | 50 |
| O. Severability Clause [RCSA §22a-174-33(j)(1)(R)] | 50 |
| P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)] | 50 |
| Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)] | 50 |
| R. Property Rights [RCSA §22a-174-33(j)(1)(W)] | 50 |
| S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)] | 50 |
| T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)] | 50 |
| U. Information for Notification [RCSA §22a-174-33(r)(2)(A)] | 51 |
| V. Transfers [RCSA §22a-174-2a(g)] | 51 |
| W. Revocation [RCSA §22a-174-2a(h)] | 51 |
| X. Reopening for Cause [RCSA §22a-174-33(s)] | 51 |
| Y. Credible Evidence | 51 |

Title V Operating Permit

All conditions in Sections III, IV, and VI of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, and VI of this Title V permit in accordance with the Clean Air Act, as amended.

LIST OF ABBREVIATIONS/ACRONYMS

| <i>Abbreviation/Acronym</i> | <i>Description</i> |
|--------------------------------|--|
| acfm | Actual cubic feet per minute |
| Btu | British Thermal Unit |
| Cd | Cadmium |
| CEM | Continuous Emission Monitor |
| CFR | Code of Federal Regulations |
| CGS | Connecticut General Statutes |
| CO | Carbon Monoxide |
| CO ₂ | Carbon Dioxide |
| °C | Degrees Celsius |
| °F | Degrees Fahrenheit |
| dscm | Dry standard cubic meters |
| EPA | Environmental Protection Agency |
| EU | Emissions Unit |
| ft | Feet |
| GEU | Grouped Emissions Units |
| H ₂ SO ₄ | Sulfuric Acid |
| HAP | Hazardous Air Pollutant |
| HCl | Hydrogen Chloride |
| Hg | Mercury |
| hr | Hour |
| lb | Pound |
| m ³ | Cubic meters |
| mg | Milligram |
| MMBtu | Million British Thermal Units |
| MIRA | Materials Innovation and Recycling Authority |
| MSW | Municipal Solid Waste |
| MWC | Municipal Waste Combustor |
| ng | Nanograms |
| NO _x | Nitrogen Oxides |
| NSR | New Source Review |
| O ₂ | Oxygen |
| O&M | Operations and Maintenance |
| Pb | Lead |
| PM | Particulate Matter |
| ppmvd | Parts per million, volumetric basis dry |
| RCSA | Regulations of Connecticut State Agencies |
| RDF | Refuse Derived Fuel |
| SDA | Spray Dryer Absorber |

LIST OF ABBREVIATIONS/ACRONYMS, continued

| <i>Abbreviation/Acronym</i> | <i>Description</i> |
|-----------------------------|---|
| SIC | Standard Industrial Classification Code |
| SNCR | Selective Non-Catalytic Reduction |
| SO ₂ | Sulfur Dioxide |
| TPM | Tons Per Month |
| TPY | Tons Per Year |
| TV | Title V |
| VOC | Volatile Organic Compound |
| WPF | Waste Processing Facility |

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Resource Recovery Facility
Primary SIC: 4953

Facility Mailing Address: Materials Innovation and Recycling Authority
200 Corporate Place, Suite 202
Rocky Hill, Connecticut 06067

Telephone Number: (860) 757-7700

B. PREMISES DESCRIPTION

The Materials Innovation and Recycling Authority (MIRA) owns the Connecticut Solid Waste System Resource Recovery Facility in Hartford, Connecticut. The facility is a major source for PM, NO_x, CO and HAPs and is located in a serious ozone non-attainment area defined in RCSA §22a-174-1(103). Refuse Derived Fuel (RDF) and coal is combusted to produce steam, which in turn is used to produce electricity.

Municipal Waste Combustors:

Three 326 MMBtu/hr CE Power Systems VU-40 waterwall municipal waste combustors, with spreader stoker and traveling grates, (EU-1, 2 & 3) combust RDF and coal to produce steam, which is in turn is used to produce electricity. The auxiliary burner system is natural gas fired. Each municipal waste combustor (MWC) is equipped with a spray dryer absorber (SDA) for acid gas control, a fabric filter for particulate matter control, and a selective non-catalytic reduction (SNCR) system for nitrogen oxide control. Each municipal waste combustor is also equipped with continuous emission monitors (CEM) to monitor opacity, SO₂, NO_x and CO. Permits to construct (Permit Nos. 075-0044, 075-0045 and 075-0046) were issued on April 18, 1985, and permits to operate were issued August 27, 1993. These three permits were modified on April 27, 2007 to add requirements for the addition of the SNCR system as well as to incorporate the rules of RCSA §22a-174-38. Permit No. 075-0044 (EU-1) was modified again on March 28, 2018 to change the monitoring requirements for ammonia from the use of CEM to yearly stack testing. EU-1, 2, and 3 are subject to 40 CFR Part 60 Subpart Cb.

Ash Handling System:

The ash handling system (EU-4) takes the bottom ash from the municipal waste combustors and combines it with water and fly ash, lime and spent lime from the fabric filters. The combined ash is then discharged to an enclosed structure, where it remains until being loaded into truck for disposal. This unit does not require a permit, however, any ash emissions that occur from the transfer of ash from the MWC units to the ash handling system are regulated under RCSA §22a-174-38.

Natural Gas Fired Boilers:

There are two natural gas fired boilers (GEU-5) operating at the waste processing facility (WPF). GEU-5 is comprised of a 2.1 MMBtu/hr (EU-29) and a 1.73 MMBtu/hr (EU-30) Weil Mclain boiler. These boilers do not require permits, however, since they are boilers as defined by 40 CFR §63.7575 they are subject to 40 CFR Part 63 Subpart DDDDD (Boiler MACT).

The following units do not require a permit and do not have any unit specific applicable requirements. The applicable requirements for these units are listed in Section III.C. - Premises-Wide Requirements of this Title V permit.

Section I: Premises Information/Description

Dolomitic Lime Silo:

A silo (EU-5) stores the dolomitic lime used in the ash amendment system. It is equipped with a fabric filter for particulate matter control during deliveries. The standard operation of the lime silo is to store dolomitic lime used in the ash conditioning system.

Pebble Lime Silo:

A silo (EU-6) stores the pebble lime used in the spray dryer absorbers. It is equipped with a fabric filter for particulate matter control. The standard operation of the pebble lime silo is to store pebble lime used in the spray dryer absorbers.

Coal Processing System:

The coal processing system (GEU-1) is as follows: Coal is delivered to the facility by barge or truck as needed. Coal delivered by barge is lifted by crane and dumped in the coal hopper (EU-8) and onto Coal Conveyor 1 (EU-9), which conveys it to the coal pile (EU-7). Coal delivered by truck is dumped directly onto the coal pile (EU-7). A bulldozer moves the coal around the pile and onto the conveyors (EU-10, 11 and 12), which transport the coal to the municipal waste combustors. The standard operation of the coal processing system is to transport coal from the barge to the MWCs.

Waste Processing Facility:

Municipal solid waste (MSW) is received at the WPF's (GEU-2) tipping floor, where it is processed by 2 RDF processing lines to remove ferrous material, large bulky waste, sand/dirt and glass and to produce a uniform size material, approximately three to four inch nominal size. Each processing line consists of a primary and secondary shredder (EU-13 to 16). RDF is stored on the RDF floor. RDF is loaded onto the RDF Conveyance system as needed. The standard operation of the WPF is to reduce the MSW to a uniform size and to remove ferrous material, large bulky waste, sand/dirt and glass.

RDF Conveyance System:

The RDF conveyance system (GEU-3) consists of 10 conveyors (EU-17 to 26), which transport RDF from the processed waste floor to the MWCs. All conveyors are fully enclosed. The standard operation of the RDF conveyance system is to transport RDF from the processed waste floor to the MWCs.

Natural Gas Fired Heaters

There are four small natural gas fired heaters (GEU-4) operated at the WPF. GEU-4 is comprised of two Aerovent 5 MMBtu/hr Make-up Air Heaters (EU-27 and EU-28), an Aerovent 0.6 MMBtu/hr Make-up Air Heater (EU-31), and a Rezner 0.3 MMBtu/hr Make-up Air Heater (EU-32). The standard operation of the natural gas-fired heaters and boilers is to provide make-up air and heat for the waste processing facility.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

Emissions units are set forth in Table II.A.1. It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V permit.

| TABLE II.A.1: EMISSIONS UNITS DESCRIPTION | | | |
|--|--|--|--|
| Emissions Unit/ Grouped Emission Unit | Emissions Unit Description | Control Unit Description | Permit or Regulation Number |
| EU-1 | 326 MMBTU/hr CE Power Systems VU-40 Municipal Waste Combustor No. 11 (Unit Load – 231,000 lb/hr) | Each MWC has a Spray Dryer Absorber (SDA), Fabric Filter and Selective Noncatalytic Reduction (SNCR) system. | Permit No. 075-0044 |
| EU-2 | 326 MMBTU/hr CE Power Systems VU-40 Municipal Waste Combustor No. 12 (Unit Load – 231,000 lb/hr) | | Permit No. 075-0045 |
| EU-3 | 326 MMBTU/hr CE Power Systems VU-40 Municipal Waste Combustor No. 13 (Unit Load – 231,000 lb/hr) | | Permit No. 075-0046 RCSA §22a-174-38 40 CFR Part 60 Subpart Cb |
| EU-4 | Ash Handling System | None | RCSA §22a-174-38 Collateral Condition in Permit Nos: 075-0044 through 075- 0046 |
| GEU-5 | Natural Gas Fired Boilers 2.1 MMBtu/hr Weil Mclain Boiler (EU-29) 1.73 MMBtu/hr Weil Mclain Boiler (EU-30) | None | 40 CFR Part 63 Subpart DDDDD |

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenario without notifying the commissioner, provided that such operations are explicitly provided for and described in the Table II.B below. There are no Alternate Operating Scenarios for the premises.

| TABLE II.B: OPERATING SCENARIO IDENTIFICATION | |
|--|---|
| Emissions Units Associated with the Scenario | Description of Scenario |
| EU-1, 2, & 3 | The standard operation of the three municipal waste combustors is the combustion of RDF and coal to produce steam, which in turn is used to generate electricity. The auxiliary burner system is natural gas fired. |

Section II: Emissions Units Information

| TABLE II.B: OPERATING SCENARIO IDENTIFICATION | |
|--|--|
| Emissions Units Associated with the Scenario | Description of Scenario |
| EU-4 | The standard operation of the ash handling system is to remove the ash from the combustor grates and load the ash onto trucks for removal from the facility. |
| GEU-5 (EU-29 – EU-30) | The standard operation of the natural gas-fired boilers is to provide make-up air and heat for the Waste Processing Facility. |

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

A. EMISSIONS UNITS 1, 2, & 3 (EU-1, EU-2, & EU 3) – CE POWER SYSTEMS VU-40 MUNICIPAL WASTE COMBUSTOR NOS. 11, 12, & 13

Subject to: Permit Nos. 075-0044, 075-0045, and 075-0046; 40 CFR Part 60 Subpart Cb; RCSA §22a-174-38

1. Allowable Fuels/Materials & Charging Rate

a. Limitation or Restriction

- i. The Permittee shall allow only the following fuels to be combusted in each Municipal Waste Combustor (MWC) [NSR Permit Nos. 075-0044, -0045, and -0046]:
 - (A) Refuse Derived Fuel (RDF). RDF shall consist only of Municipal Solid Waste (MSW) as defined and restricted under CGS §22a-207 et seq. and any applicable Bureau of Materials Management and Compliance Assurance permit. RDF shall not consist, in part, or in whole, of any of the following: commercial hazardous waste, industrial hazardous waste, biomedical waste, “beryllium containing waste” as defined by 40 CFR Part 61 Subpart C.
 - (B) Bituminous Coal
 - (C) Natural Gas
 - (D) Special Waste upon prior authorization by the commissioner
- ii. The Permittee shall combust no more than 739,855 tons of RDF per calendar year on a facility-wide basis. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. When RDF, bituminous coal and natural gas are combusted simultaneously in a MWC, at no time shall the coal or natural gas contribution to the total BTU input exceed 249.9 MMBtu/hr for that MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. The Permittee shall determine the calendar year quantity of RDF by summing the scale house weight data for the calendar year minus the estimated tipping floor inventory on the last day of the year, less the scale house weight data for separated pre- and post-combustion scrap metal, oversized MSW, bulky waste and rejected wastes. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall use a non-resettable totalizing fuel meter to continuously monitor the weight of coal combusted in each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall use a common non-resettable totalizing fuel meter to continuously monitor total natural gas combusted in the three MWCs. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iv. The Permittee shall determine the calendar year quantity of Special Waste for the facility by summing the truck scale house weight data. [NSR Permit Nos. 075-0044, -0045, and -0046]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records summarizing the calendar year quantity of RDF and Special Waste

Section III: Applicable Requirements and Compliance Demonstration

Combusted for the facility. [NSR Permit Nos. 075-0044, -0045, and -0046]

- ii. The Permittee shall make and keep records of hourly amounts of coal and natural gas combusted for each MWC. The Permittee shall total these amounts to create records of fuel combusted for the calendar year. Calendar year natural gas usage for each MWC shall be allocated based on records of the calendar year operating hours for each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall record total natural gas usage combusted in the three MWCs on an hourly basis. [NSR Permit Nos. 075-0044, -0045, and -0046]

d. Reporting Requirements

The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the calendar year quantity of RDF and Special Waste combusted by the facility, the hourly amounts of coal and natural gas combusted by each MWC, and the calendar year amounts of coal and natural gas combusted by each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046, and RCSA §22a-174-38(1)(3)]

2. Operating Hours

a. Limitation or Restriction

There is no operating limit for operating hours for the three MWCs. However, there are Record Keeping and Reporting requirements for each of the three MWCs.

b. Monitoring and Testing Requirements

Record keeping in Section III.A.2.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)].

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of daily operating hours of each MWC. The Permittee shall total these records to create records of operating hours for the calendar year. Records of operating hours shall be made to distinguish periods of start-up and shutdown for each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall make and keep records of the dates and time periods of start-up, shutdown, and malfunction. [NSR Permit Nos. 075-0044, -0045, and -0046]

d. Reporting Requirements

The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the calendar year operating hours for each MWC and the dates and time periods of start-up, shutdown, and malfunction for each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046, and RCSA §22a-174-38(1)(3)]

3. Stack Parameters

a. Limitation or Restriction

The Permittee shall comply with the following stack parameters [NSR Permit Nos. 075-0044, -0045, -0046]:

- i. Minimum Stack Height: 218 ft above grade

Section III: Applicable Requirements and Compliance Demonstration

- ii. Typical Stack Exhaust Temperature: 150-210°F
- iii. Design Exhaust Gas Flow Rate: 70,000 acfm
- iv. Minimum Distance to Nearest Property Line: 500 ft

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.3.b of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(10(K)(ii))]

c. Record Keeping Requirements

The Permittee shall make and keep records indicating compliance with the parameters specified in Section III.A.3.a of this Title V permit. [RCSA §22a-174-33(o)(2)]

d. Reporting Requirements

The Permittee shall maintain records on site for the lifetime of the equipment and shall make them available to the commissioner upon request. [RCSA §22a-174-33(o)(2)]

4. Unit Load

a. Limitation or Restriction

- i. In no event shall each MWC unit load (steam production) exceed 254,100 lb/hr, based on a 4-hour block average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall not cause or allow each MWC to operate at a unit load greater than 110% of the maximum demonstrated unit load, based on a 4-hour block average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [RCSA §22a-174-38(g)(2)]
- iii. The Permittee may, notwithstanding Section III.A.4.a.ii of this Title V permit, during the annual dioxin/furan emissions performance test and for two weeks prior to such test allow unit load in excess of Section III.A.4.ii. of this Title V permit. However, should the Permittee operate the unit at such excess load, the Permittee shall not again be allowed to operate at such excess load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]
- iv. The MWC unit load limit may be waived temporarily by the commissioner to allow evaluation of system performance, testing of new technology or control technologies or diagnostic testing, provided that any such temporary waiver is authorized through a permit or order issued prior to an evaluation of system performance, testing of new technology or control technologies or diagnostic testing. [RCSA §22a-174-38(g)(4)]

b. Monitoring and Testing Requirements

- i. The Permittee shall operate a steam flow meter to continuously monitor each MWC unit load (steam production). [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(g)(2)]
- ii. The Permittee shall install, operate, calibrate and maintain continuous monitoring systems for measuring MWC unit load. Continuous monitoring systems for MWC unit load shall meet the requirements of 40 CFR §60.1810(a). [RCSA §22a-174-38(j)(1)(F)]
- iii. The Permittee shall comply with the following minimum data requirements:

Section III: Applicable Requirements and Compliance Demonstration

[RCSA §§22a-174-38(j)(2)(A), (C), (D), and F]

- (A) Data available for MWC unit load CEMs shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
- (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts any MSW.
- (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
- (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §§22a-174-38(j)(2)(A) and (B) are obtained.

c. Record Keeping Requirements

- i. The Permittee shall continuously record each MWC unit load (steam production) using a one-hour average for MWC unit load. The Permittee shall use a 4-hour block averaging time.
[RCSA §§22a-174-38(k)(3) & (4) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall make and keep records of the maximum demonstrated unit load, based on a 4-hour block average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [RCSA §§22a-174-38(k)(10) and 22a-174-33(o)(2)]
- iii. The Permittee shall identify and record the calendar dates when any MWC unit load recorded under RCSA §22a-174-38(k)(3) or (4) are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall identify and record the calendar dates for which the minimum number of hours of any data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data.
[RCSA §22a-174-38(k)(6)]
- v. The Permittee shall identify and record when a MWC unit load has been excluded from the calculation of average MWC unit load, as well as the reason(s) for excluding the data. [RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall maintain records of the information specified in Sections III.A.4.c.i.-v. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created.
[RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from the allowable load limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures no later than 10 days after such deviation commenced.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average.
[NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year

Section III: Applicable Requirements and Compliance Demonstration

following the calendar year in which the data were collected. Each annual report shall include the information as set forth in RCSA §22a-174-38(1)(3). [NSR Permit Nos. 075-0044, -0045, and -0046]

- iv. The Permittee shall notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §§22a-174-38(j)(2)(A) and (B). [RCSA §22a-174(38)(1)(3)(A)(v)]

5. Inlet Gas Temperature of Fabric Filter

a. Limitation or Restriction

- i. The Permittee shall not cause or allow such unit to operate at a temperature, measured at each particulate control device inlet more than 17°C, based on a 4-hour block average, above the maximum demonstrated fabric filter inlet temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [RCSA §22a-174-38(g)(1)]
- ii. The Permittee may, notwithstanding RCSA §22a-174-38(g)(1) and (2), during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow temperatures in excess of that specified in RCSA §22a-174-38(g)(1). However, should the Permittee operate the unit at such excess temperatures, the owner or operator shall not again be allowed to operate at such excess temperatures during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]

b. Monitoring and Testing Requirements

- i. The Permittee shall continuously monitor the fabric filter inlet temperature, based on a 4-hour block average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall use redundant thermocouples for measuring the inlet gas temperature of the fabric filter. Defective thermocouples shall be replaced as soon as practicable. The fabric filter thermocouple signal transmitter shall be calibrated annually. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall comply with the following minimum data requirements: [RCSA §§22a-174-38(j)(2)(A), (C), (D), and (F)]
 - (A) Data available for gaseous and process CEMs shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
 - (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts any municipal solid waste.
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
 - (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §§22a-174-38(j)(2)(A) and (B) are obtained.

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the maximum allowable inlet temperature of the fabric filter, based on the requirements of Section III.A.5.a.i. of this Title V permit. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall continuously record the fabric filter inlet temperature. The Permittee shall record one-

Section III: Applicable Requirements and Compliance Demonstration

hour and 4-hour block averaging time.

[RCSA §§22a-174-38(k)(3) & (4) and NSR Permit Nos. 075-0044, -0045, and -0046]

- iii. The Permittee shall identify and record the calendar dates when the fabric filter inlet temperatures are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded.
[RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall identify and record the calendar dates for which the minimum number of hours of fabric filter inlet temperature data has not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data.
[RCSA §22a-174-38(k)(6)]
- v. The Permittee shall identify and record when a fabric filter inlet temperature has been excluded from the calculation of average fabric filter inlet temperature, as well as the reason(s) for excluding the data.
[RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall maintain records of the information specified in Sections III.A.5.c.i-v. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created.
[RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation above the maximum allowable fabric filter inlet temperature limit, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures no later than 10 days after such deviation commenced.
[NSR Permit Nos. 075-0044, -0045, and -0046, and RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis within 30 days following the end of each calendar quarter using a one-hour average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the highest fabric filter inlet temperature recorded based on 4-hour block averages, the number of days that the minimum number of hours of data for fabric filter inlet temperature were not obtained, and the total number of hours that data for fabric filter inlet temperature were excluded from the calculation of average fabric filter inlet temperature. [RCSA §22a-174-38(l)(3) and NSR Permit Nos. 075-0044, -0045, and -0046]
- iv. The Permittee shall notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §22a-174-38(j)(2). [RCSA §22a-174(38)(l)(3)]

6. Particulate Matter

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of PM in excess of 25 mg/dscm of exhaust gas corrected to 7% O₂. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[RCSA §22a-174-38(c)(1) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Each MWC shall not emit greater than 51.3 tons of PM per calendar year.
[NSR Permit Nos. 075-0044, -0045, and -0046]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

- i. Compliance with the 25 mg/dscm @ 7% O₂ emission limit shall be determined based on an annual performance test. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(c)(3) and 38(i)(2)]
- ii. Testing for PM levels shall be conducted in accordance with the following procedures [RCSA §22a-174-38(i)(4)(A)]:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 1 shall be used to select the sampling site and number of traverse points for particulate matter testing
 - (B) 40 CFR Part 60, Appendix A, Reference Method 3 shall be used for flue gas analysis for PM testing
 - (C) 40 CFR Part 60, Appendix A, Reference Method 5 or 29 shall be used for determining compliance with the particulate matter emission limit. For each Method 5 or Method 29 test run: the minimum sample volume shall be 1.7 m³; the probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 +/- 14°C; and an O₂ or CO₂ measurement shall be obtained simultaneously. For each Method 29 test run, the minimum sample time shall be two hours.
 - (D) The compliance determination for particulate matter shall be based on an arithmetic average determined using all data generated in three test runs as required by RCSA §22a-174-38.

c. Record Keeping Requirements

- i. The Permittee shall calculate and record calendar year emissions for PM in units of TPY for each MWC. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of each calendar year. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for particulate matter. [RCSA §22a-174-38(k)(10)]
- iii. The Permittee shall maintain records of the information specified Section III.A.6.c.ii. of this Title V permit, labeling each record with the calendar time and date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall submit reports to the commissioner of all required performance tests.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(3)(A)(i)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each calendar year in which the data was collected. Each annual report shall include the calendar year emissions for PM in units of TPY for each MWC and a list of the PM emission levels achieved during all initial and annual performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(3)(A)(i)]
- iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any PM emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]

7. Opacity

a. Limitation or Restriction

Section III: Applicable Requirements and Compliance Demonstration

- i. The Permittee shall not allow the MWCs to exceed an opacity emission limit of 10%, using a 6-minute arithmetic average. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(c)(1) & (5)]

b. Monitoring and Testing Requirements

- i. Continuous compliance with the emission limits for opacity shall be determined based on CEM system data. The Permittee shall install, operate and calibrate such CEM system in a manner acceptable to the commissioner and certify to the commissioner, in writing, that the equipment specifications for the CEM system have been and are being met. Opacity monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 1; RCSA §22a-174-4; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(A)]
- ii. The Permittee shall comply with the following minimum data requirements:
[RCSA §§22a-174-38(j)(2)(B) & (F)]
 - (A) Data available for opacity CEMs shall not be less than 95% of the total operating hours in any one calendar quarter.
 - (B) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §22a-174-38(j)(2)(B) are obtained.
- iii. Testing opacity levels shall be conducted in accordance with the procedures described in 40 CFR Part 60, Appendix A, Reference Method 9, except as provided under 40 CFR §60.11(e).
[RCSA §22a-174-38(i)(4)(A)(iv)]

c. Record Keeping Requirements

- i. The Permittee shall operate a CEM system to continuously record opacity using a 6-minute arithmetic average. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(k)(3)(A)]
- ii. The Permittee shall identify and record the calendar dates when any opacity levels recorded are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded.
[RCSA §22a-174-38(k)(5)]
- iii. The Permittee shall identify and record the calendar dates for which the minimum number of hours of opacity data have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- iv. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for opacity CEM systems. [RCSA §22a-174-38(k)(8)]
- v. The Permittee shall maintain records of the information specified in Sections III.A.7.c.i-iv., labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on

Section III: Applicable Requirements and Compliance Demonstration

forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures, no later than 10 days after such deviation commenced. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]

- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a 6-minute arithmetic average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the opacity emission levels achieved during all initial and annual performance tests and the highest 6-minute average opacity level measured.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(l)(3)(A)(i) & (iii)]
- iv. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any opacity emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]

8. SO₂

a. Limitation or Restriction

- i. The Permittee shall not allow each MWC to exceed an SO₂ emission limit of 29 ppmvd @ 7% O₂, using a 24-hour geometric average, or achieve 75% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. CEM system outlet data shall be used for compliance based on emission concentration and CEM system inlet and outlet data shall be used if compliance is based on a percent reduction. These emission limits as set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[RCSA §§22a-174-38(c)(1), (38)(c)(4) and (38)(c)(6); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The SO₂ emission limit for each MWC when combusting only coal is 0.55 lb/MMBtu based on a 24-hour block average. The SO₂ emission limit for each MWC when combusting only RDF is 0.32 lb/MMBtu based on a 24-hour block average. When a mixture of coal and RDF is combusted, the SO₂ emission limit for each MWC shall be calculated as follows:
$$((0.55 * C) + (0.32 * R)) \text{ lb/MMBtu based on a 24-hour block average,}$$
where: C is the fraction of Btu input from the coal and R is the fraction of Btu input from RDF over the 24-hour period. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. Each MWC shall not emit greater than 457.0 tons of SO₂ over any 12 consecutive months.
[NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Continuous compliance with the emission limits for SO₂ and SO₂ reduction efficiency shall be determined based on CEM system data. The Permittee shall install, operate and calibrate such CEM system in a manner acceptable to the commissioner and certify to the commissioner, in writing, that the equipment specifications for the CEM system have been and are being met. SO₂ monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 2; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(C)]
- ii. The Permittee shall comply with the following minimum data requirements [RCSA §§22a-174-38(j)(2)(A), (C), (D), and (F)]:

Section III: Applicable Requirements and Compliance Demonstration

- (A) Data available for sulfur dioxide CEMs shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
 - (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts any municipal solid waste.
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
 - (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §§22a-174-38(j)(2)(A), and (B) are obtained.
- ii. During a loss of boiler water level control or a loss of combustion air control malfunction period, a diluents cap of 14% for oxygen and 5% for carbon dioxide may be used in the emissions calculations for sulfur dioxide. [RCSA §22a-174-38(j)(3)]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record monthly and consecutive 12-month emissions for SO₂ for each MWC in units of TPM and TPY for the preceding month. The consecutive 12-month emissions shall be determined by adding the current month's emission to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of each month. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall record SO₂ emission concentrations, measured using a CEM system, as one-hour average SO₂ emission concentrations and one-hour average SO₂ reduction efficiency levels; and 24-hour daily geometric average SO₂ emission concentrations and 24-hour daily geometric average percent reductions in SO₂ emissions. [RCSA §§22a-174-38(k)(3) & (4)]
- iii. The Permittee shall identify and record calendar dates when any of the average SO₂ emission concentrations or percent reductions are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall identify and record the calendar dates for which the minimum number of hours of any SO₂ emissions concentrations or percent reductions have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- v. The Permittee shall identify and record when SO₂ emissions data has been excluded from the calculation of average SO₂ emission concentration, as well as the reason(s) for excluding the data. [RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for SO₂ CEM systems. [RCSA §22a-174-38(k)(8)]
- vii. The Permittee shall maintain records of the information specified in Sections III.A.8.c.ii.-vi. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures, no later than 10 days after such deviation commenced. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the monthly and consecutive 12-month emissions for SO₂ in units of TPM and TPY for each MWC, a list of the highest emission levels recorded for SO₂ based on the data recorded for 24-hour daily geometric averages, the number of days that the minimum number of hours of data required for SO₂ emissions were not obtained, and the total number of hours for which the SO₂ emissions were excluded from the calculation of average emissions. [NSR Permit Nos. 075-0044, -0045 and -0046; RCSA §22a-174-38(l)(3)]
- iv. The Permittee shall notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §22a-174-38(j)(2)(A). [RCSA §22a-174(38)(l)(3)(A)(v)]

9. NO_x

a. Limitation or Restriction

- i. The Permittee shall not allow each MWC to exceed a NO_x emission limit of 146 ppmvd @ 7% O₂, using a 24-hour daily average. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [RCSA §§22a-174-38(c)(8) & (9); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Each MWC shall not emit greater than 420.0 tons of nitrogen oxides over any 12 consecutive months. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Continuous compliance with the emission limits shall be determined based on CEM system data. The Permittee shall install, operate and calibrate such CEM system in a manner acceptable to the commissioner and certify to the commissioner, in writing, that the equipment specifications for the CEM system have been and are being met. NO_x monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 2; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(D)]
- ii. The Permittee shall comply with the following minimum data requirements [RCSA §§22a-174-38(j)(2)(A), (C), (D), and (F)]:
 - (A) Data available for NO_x CEMs shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
 - (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts any municipal solid waste.

Section III: Applicable Requirements and Compliance Demonstration

- (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
 - (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §22a-174-38(j)(2)(A) and (B) are obtained.
- iii. During a loss of boiler water level control or a loss of combustion air control malfunction period, a diluents cap of 14% for oxygen and 5% for carbon dioxide may be used in the emissions calculations for nitrogen oxides. [RCSA §22a-174-38(j)(3)]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record monthly and consecutive 12-month emissions for NO_x for each MWC in units of TPM and TPY for the preceding month. The consecutive 12-month emissions shall be determined by adding the current month's emission to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of each month. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall operate a CEM system to continuously record NO_x emissions. NO_x emissions concentrations shall be recorded as one-hour averages and 24-hour daily averages. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(k)(3)(D) & (4)(B)]
- iii. The Permittee shall identify and record the calendar dates when any average NO_x concentrations are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall identify and record calendar dates for which the minimum number of hours of NO_x concentration data has not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- v. The Permittee shall identify and record when NO_x emissions data has been excluded from the calculation of average NO_x emission concentration, as the reason(s) for excluding the data. [RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for NO_x CEM systems. [RCSA §22a-174-38(k)(8)]
- vii. The Permittee shall maintain records of the information specified in Sections III.A.9.c.ii.-vi. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures, no later than 10 days after such deviation commenced. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average.

Section III: Applicable Requirements and Compliance Demonstration

[NSR Permit Nos. 075-0044, -0045, and -0046]

- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the monthly and consecutive 12-month emissions for NO_x in units of TPM and TPY for each MWC, a list of the highest emission level recorded for NO_x based on the data recorded for the 24-hour daily average, the number of days that the minimum number of hours of data required for NO_x emissions were not obtained, and the total number of hours for which the NO_x emissions were excluded from the calculation of average emissions. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(l)(3)(A)(ii), (v), & (vi)]
- iv. The Permittee shall notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §§22a-174-38(j)(2)(A) and (B). [RCSA §22a-174(38)(l)(3)(A)(v)]

10. CO

a. Limitation or Restriction

- i. The Permittee shall not allow each MWC to exceed a CO emission limit of 200 ppmvd @ 7% O₂, using a 24-hour daily average. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction. For determining compliance with an applicable CO emissions limit, if a loss of boiler water level control or a loss of combustion air control is determined to be a malfunction, the duration of the malfunction period shall be limited to 15 hours per occurrence. Otherwise, the duration of each start-up, shutdown, or malfunction period shall be limited to three hours per occurrence. [RCSA §22a-174-38(c)(10), RCSA §22a-174-38(c)(11)(A), and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Each MWC shall not emit greater than 389.0 tons of CO over any 12 consecutive months. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Continuous compliance with the emission limits shall be determined based on CEM system data. The Permittee shall install, operate and calibrate such CEM system in a manner acceptable to the commissioner and certify to the commissioner, in writing, that the equipment specifications for the CEM system have been and are being met. CO monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 4 or 4A (as applicable); 40 CFR Part 60, Appendix F, Procedure 1 and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(E)(i) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall comply with the following minimum data requirements [RCSA §22a-174-38(j)(2)(A), (C), (D), and (F)]:
 - (A) Data available for CO shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
 - (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts any municipal solid waste.
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
 - (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38

Section III: Applicable Requirements and Compliance Demonstration

regardless of whether the minimum data availability requirements of RCSA §§22a-174-38(j)(2)(A) and (B) are obtained.

c. Record Keeping Requirements

- i. The Permittee shall calculate and record monthly and consecutive 12-month emissions for CO for each MWC in units of TPM and TPY for the preceding month. The consecutive 12-month emissions shall be determined by adding the current month's emission to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of each month. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall operate a CEM system to continuously record CO emissions. CO emissions shall be recorded as one-hour average emissions concentrations and 24-hour daily average CO emissions concentrations. [RCSA §§22a-174-38(k)(3)(E) & (4)(C) and NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall identify and record the calendar dates when any average CO emissions are above the applicable limit. The reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall identify and record the calendar dates for which the minimum number of hours of CO measurements have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- v. The Permittee shall identify and record when CO emissions have been excluded from the calculation of average emission concentrations or parameters, as well as the reason(s) for excluding the data. [RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for CO CEM systems. [RCSA §22a-174-38(k)(8)]
- vii. The Permittee shall maintain records of the information specified in Sections III.A.10.c.ii.-vi. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures, no later than 10 days after such deviation commenced. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the monthly and consecutive 12-month emissions for CO in units of TPM and TPY for each MWC, a list of the highest emission level recorded for CO based on the data recorded for the 24-hour daily average, the number of days that the minimum number of hours of data required for CO emissions were not obtained, and the total number of hours for which the CO emissions were excluded from the calculation of average emissions.

Section III: Applicable Requirements and Compliance Demonstration

[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(l)(3)(A)(ii), (v), & (iv)]

- iv. The Permittee shall notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §§22a-174-38(j)(2)(A) and (B).
[RCSA §22a-174-38(l)(3)(A)(v)]

11. VOC/ Hydrocarbons

a. *Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of greater than 70 ppmvd of VOC (expressed as methane) corrected to 12% CO₂ from each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Each MWC shall not emit greater than 130.0 tons of hydrocarbons per calendar year.
[NSR Permit Nos. 075-0044, -0045, and -0046]

b. *Monitoring and Testing Requirements*

Record keeping specified in Section III.a.11.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

The Permittee shall calculate and record calendar year emissions for hydrocarbons in units of TPY. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [NSR Permit Nos. 075-0044, -0045, and -0046]

d. *Reporting Requirements*

The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the calendar year emissions for VOC in units of TPY for each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]

12. Hydrogen Chloride

a. *Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of HCl in excess of 29 ppmvd corrected to 7% O₂, or achieve 95% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[RCSA §§22a-174-38(c)(1) and 38(c)(6); NSR Permit Nos. 075-0044, -0045, and -0046]

b. *Monitoring Requirements*

- i. Compliance with this emission limit shall be determined based on an annual performance test. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test for HCl. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(c)(3) and -38(i)(2)]
- ii. Testing for HCl levels shall be conducted in accordance with the following procedures
[RCSA §22a-174-38(i)(4)(G)]:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 26 or 26A, as applicable, shall be used to determine the HCl emission concentration. The minimum sampling time for Method 26 shall be one hour.

Section III: Applicable Requirements and Compliance Demonstration

(B) An O₂ or CO₂ measurement shall be obtained simultaneously with each Method 26 test run for HCl required by RCSA §22a-174-38.

(C) The percent reduction in potential HCl emissions (% PHCl) shall be computed using the following equation:

$$(\% PHCl) = ((E_i - E_o) / E_i) \times 100,$$

where: %PHCl = percent reduction of the potential HCl emissions achieved;

E_i = potential HCl emission concentration measured at the control device inlet, corrected to 7% O₂ (dry basis); and

E_o = controlled HCl emission concentration measured at the control device outlet, corrected to 7% O₂ (dry basis)

(D) The compliance determination for HCl shall be based on an arithmetic average of emission concentrations or percent reductions determined using all data generated in three test runs as required by RCSA §22a-174-38.

iii. If the Permittee complies with the percent reduction limitation, compliance shall be determined by measuring the concentration of HCl at the outlet of the air pollution control device that discharges directly to the stack, subtracting it from the concentration at the inlet of the air pollution control device that receives exhaust gases directly from the combustion chamber dividing the difference by the concentration of HCl at the inlet to the air pollution control device that receives exhaust gases directly from the combustion chamber and then multiplying that result by a factor of 100. [RCSA §22a-174-38(c)(7)]

c. Record Keeping Requirements

i. The Permittee shall record test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for HCl. [RCSA §22a-174-38(k)(10)]

ii. The Permittee shall maintain records of the information specified in Section III.A.12.c.i. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

i. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any HCl emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044, -0045, and -0046, and RCSA §22a-174-38(l)(6)]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the HCl emission levels achieved during all initial and annual performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046, and RCSA §22a-174-38(l)(3)(A)(i)]

13. Cadmium

a. Limitation or Restriction

The Permittee shall not cause or allow emission of Cd in excess of 0.035 mg/dscm of exhaust gas corrected to 7% O₂. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set

Section III: Applicable Requirements and Compliance Demonstration

forth in RCSA §22a-174-38(c)(11). [RCSA §22a-174-38 and NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Compliance with this emission limit shall be determined based on an annual performance test. Such test shall be conducted no less than 9 calendar months and no more than 15 calendar months following the previous performance test for Cd. [RCSA §§22a-174-38(c)(3) and -38(i)(2); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Testing for Cd levels shall be conducted in accordance with the following procedures [RCSA §22a-174-38(i)(4)(B)]:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 1 shall be used for determining the location and number of sampling points;
 - (B) 40 CFR Part 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
 - (C) 40 CFR Part 60, Appendix A, Reference Method 29 shall be used for determining compliance with the Cd emission limits;
 - (D) An O₂ or CO₂ measurement shall be obtained simultaneously with each Method 29 test run for Cd required under RCSA §22a-174-38;
 - (E) The minimum sample time shall be 2 hours per each Method 29 test run; and
 - (F) The compliance determinations for cadmium shall be based on an arithmetic average determined using all data generated in three test runs as required by RCSA §22a-174-38.

c. Record Keeping Requirements

- i. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for Cd. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records of the information specified in Section III.A.13.c.i. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the Cd emission levels achieved during all initial and annual performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(3)(A)(i)]
- ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any Cd emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

14. Lead

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of Pb in excess of 0.400 mg/dscm of exhaust gas corrected to 7% O₂. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[RCSA §22a-174-38(c)(1) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Each MWC shall not emit greater than 0.48 tons of Pb per calendar year.
[NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Compliance with this emission limit shall be determined based on an annual performance test. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test for such pollutant.
[RCSA §§22a-174-38(c)(3) and – 38(i)(2); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Testing for Pb levels shall be conducted in accordance with the following procedures
[RCSA §22a-174-38(i)(4)(B)]:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 1 shall be used for determining the location and number of sampling points;
 - (B) 40 CFR Part 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
 - (C) 40 CFR Part 60, Appendix A, Reference Method 29 shall be used for determining compliance with the Pb emission limits;
 - (D) An O₂ or CO₂ measurement shall be obtained simultaneously with each Method 29 test run for Pb required under RCSA §22a-174-38;
 - (E) The minimum sample time shall be two hours per each Method 29 test run; and
 - (F) The compliance determinations for lead shall be based on an arithmetic average determined using all data generated in three test runs as required by RCSA §22a-174-38.

c. Record Keeping Requirements

- i. The Permittee shall calculate and record calendar year emissions for Pb in units of TPY. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for lead. [RCSA §22a-174-38(k)(10)]
- iii. The Permittee shall maintain records of the information specified in Section III.A.14.c.ii. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include a list of the Pb emission levels achieved during all initial and annual performance tests and the calendar year emissions for lead in units of TPY for each MWC.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(1)(3)(A)(i)]
- ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any Pb emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(1)(6)]

15. Mercury

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of Hg in excess of 0.028 mg/dscm of exhaust gas corrected to 7% O₂, or achieve 85% reduction by weight measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). Compliance with this emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i)
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(c)(1) and -38(c)(6)]

b. Monitoring and Testing Requirements

- i. Compliance with this emission limit shall be determined based on an annual performance test. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test for mercury. [RCSA §§22a-174-38(c)(3), -38(c)(6) and -38(i)(2); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Testing for Hg levels shall be conducted in accordance with the following procedures [RCSA §22a-174-38(i)(4)(C)]:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 1 shall be used for determining the location and number of sampling points;
 - (B) 40 CFR Part 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
 - (C) 40 CFR Part 60, Appendix A, Reference Method 29 shall be used for determining compliance with the Hg emission limits. An O₂ or CO₂ measurement shall be obtained simultaneously with each Method 29 test run for Hg required under RCSA §22a-174-38;
 - (D) The minimum sample time shall be two hours per each Method 29 test run;
 - (E) The percent reduction in the potential Hg emissions (%PHg) is computed using the following equation:

$$(\%PHg) = ((E_i - E_o) / E_i) \times 100;$$

where: %PHg = percent reduction of the potential Hg emissions achieved;

E_i = potential Hg emission concentration measured at the control device inlet, corrected to 7% O₂ (dry basis); and

E_o = controlled mercury emission concentration measured at the Hg control device outlet, corrected to 7% O₂ (dry basis)

- (F) The compliance determinations for Hg shall be based a arithmetic average of emission concentrations or percent reductions determined using all data generated in a minimum of at least three test runs as

Section III: Applicable Requirements and Compliance Demonstration

required by RCSA §22a-174-38.

- iii. If the Permittee complies with the percent reduction limitation, compliance shall be determined by measuring the concentration of Hg at the outlet of the air pollution control device that discharges directly to the stack, subtracting it from the concentration at the inlet of the air pollution control device that receives exhaust gases directly from the combustion chamber dividing the difference by the concentration of Hg at the inlet to the air pollution control device that receives exhaust gases directly from the combustion chamber and then multiplying that result by a factor of 100. [RCSA §22a-174-38(c)(7)]

c. Record Keeping Requirements

- i. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for Hg. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records of the information specified in Section III.A.15.c.i. of this Title V permit, labeling each record with the time and date calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any Hg emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the Hg emission levels achieved during all initial and annual performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(3)(A)(i)]

16. Dioxin/Furan

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of dioxins and furans in excess of 30 ng/dscm of exhaust gas total mass corrected to 7% O₂. This emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(c)]
- ii. The Permittee shall not cause or allow emission of greater than 5.04×10^{-7} lb of dioxin/furan toxic equivalents per hour. [RCSA §22a-174-1(33) and NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. Compliance with this emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i)(3). Such test shall be conducted no less than 9 calendar months and no more than 15 calendar months following the previous performance test for dioxin/furan. [RCSA §§22a-174-38(c)(3), and -38(i)(2); NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. Notwithstanding Section III.A.16.b.i. of this Title V permit, upon demonstration for two consecutive years that the dioxin/furan emission levels from each MWC are less than 15 ng/dscm total mass, the Permittee shall only be required to conduct performance testing for dioxin/furan on one unit at the facility. The Permittee

Section III: Applicable Requirements and Compliance Demonstration

shall rotate performance testing among units in a fixed sequence so that each unit is tested at the same frequency. One unit at the facility shall be tested at least once per calendar year, and such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test. If in any year following the year of election of such reduced testing, the dioxin/furan emission test results indicate a level equal to or greater than 15 ng/dscm total mass for any unit, then the Permittee shall resume testing of all units at the facility during the next annual performance test. The Permittee shall continue to test all units on an annual basis until the performance tests for all units indicate the dioxin/furan emission levels meet the requirements of RCSA §22a-174-38(i)(3), at which time the owner/operator may resume testing in accordance with RCSA §22a-174-38(i)(3). [RCSA §22a-174-38(i)(3)]

iii. Testing for dioxin/furan levels shall be conducted in accordance with the following procedures [RCSA §22a-174-38(i)(4)(H)]:

- (A) 40 CFR Part 60, Appendix A, Reference Method 1 shall be used for determining the location and number of sampling points;
- (B) 40 CFR Part 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
- (C) 40 CFR Part 60, Appendix A, Reference Method 23 shall be used for determining the dioxin/furan emission concentration;
- (D) The minimum sample time shall be four hours per test run;
- (E) An O₂ or CO₂ measurement shall be obtained simultaneously with each Method 23 test run for dioxin/furan required by RCSA §22a-174-38; and
- (F) The compliance determination for dioxin/furan levels shall be based on an arithmetic average determined using all data generated as required by RCSA §22a-174-38 in three test runs.

c. Record Keeping Requirements

- i. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for dioxin/furan emissions. The maximum demonstrated MWC unit load and maximum demonstrated PM control device temperature (for each PM control device) shall be recorded for each performance test for dioxin/furan emissions. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records of the information specified in Section III.A.16.c.i. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any dioxin/furan emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the

Section III: Applicable Requirements and Compliance Demonstration

dioxin/furan emission levels achieved during all initial and annual performance tests.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(1)(3)(A)(i)]

17. Sulfuric Acid

a. Limitation or Restriction

The Permittee shall not cause or allow emission of greater than 0.02 lb of H₂SO₄ per MMBTU of heat input.
[NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.17.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.17.a. of this Title V permit. [RCSA §22a-174(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-174-33(j)(1)(X)]

18. Ammonia

a. Limitation or Restriction

The Permittee shall not cause or allow emission of ammonia in excess of 20 ppmvd corrected to 7% O₂. The emission limit shall apply at all times except during periods of start-up, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). Compliance with the ammonia emission limits shall be based on an annual stack test, performed as set forth in RCSA §22a-174-38(c)(17).
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(c)(16)]

b. Monitoring and Testing Requirements

- i. The Permittee shall use 40 CFR Part 60, Appendix A, Reference Method 26A or other method approved by the commissioner and the EPA to determine compliance with the ammonia emission limits for each MWC unit. The compliance determination for ammonia shall be based on an arithmetic average determined using all data generated in three test runs. The minimum sample time shall be one hour per each test run.
[NSR Permit Nos. 075-0044, 075-0045 and -0046; RCSA §22a-174-38(i)(4)(L)]
- ii. The initial performance test for ammonia, as applicable, shall be conducted at the time the first annual performance test after January 1, 2018 is conducted. Subsequent annual performance tests for ammonia shall be conducted not earlier than nine calendar months and not later than fifteen calendar months following the previous performance test for ammonia. [RCSA §22a-174-38(i)(5)]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record calendar year emissions for ammonia in units of TPY for each MWC unit. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [NSR Permit Nos. 075-0044, 075-0045 and -

Section III: Applicable Requirements and Compliance Demonstration

0046]

- ii. The Permittee shall record the applicable test results and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for ammonia where applicable. [RCSA §§22a-174-38(k)(1) and 38(k)(10)]

d. Reporting Requirements

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data was collected. Each annual report shall include the calendar year emissions for ammonia in units of TPY for each emission unit. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(1)(3)]
- ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any ammonia emission levels exceed the emission limitations or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044; RCSA §22a-174-38(1)(6)]

19. Hazardous Air Pollutants [STATE ONLY REQUIREMENT]

a. Limitation or Restriction

The Permittee shall not cause or allow an exceedance of the Maximum Allowable Stack Concentration for any HAP emitted and listed in RCSA §22a-174-29. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

Record Keeping specified in Section III.A.19.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.19.a. of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

20. Furnace Temperature

a. Limitation or Restriction

Each MWC shall be capable of maintaining a minimum combustion gas temperature of 1500°F after secondary air injections for at least one second. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. The Permittee shall continuously monitor the furnace temperature as measured in the boiler bank area. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall use redundant thermocouples for measuring the furnace temperature. Defective thermocouples shall be replaced as soon as practicable. [NSR Permit Nos. 075-0044, -0045, and -0046]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

The Permittee shall continuously record the furnace temperature as measured in the boiler bank area. The Permittee shall use a 4-hour block averaging time. [NSR Permit Nos. 075-0044, -0045, and -0046]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from the required furnace temperature parameters for each MWC, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures no later than 10 days after such deviation commenced.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average.
[NSR Permit Nos. 075-0044, -0045, and -0046]

21. Oxygen

a. Limitation or Restriction

There is no operating limit for oxygen, however, there are Monitoring, Record Keeping and Reporting requirements.

b. Monitoring and Testing Requirements

- i. The Permittee shall operate a CEM system to continuously monitor O₂ of the flue gas at each location where CO₂, SO₂, or NO_x emissions are monitored. The O₂ monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 3; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13.
[NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(j)(1)(B)]
- ii. The Permittee shall comply with the following minimum data requirements [RCSA §22a-174-38(j)(2)(A), (C), (D), & (F)]:
 - (A) Data available for O₂ CEM shall not be less than 90% of the total operating hours in any one calendar quarter and shall not be less than 95% of the total operating hours in any one calendar year.
 - (B) Obtain valid 1-hour averages for 75% of the operating hours per day for 90% of the operating days per calendar quarter during which each unit combusts any MSW.
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average.
 - (D) The percentage of data available shall be calculated as follows: (i) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and (ii) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by RCSA §22a-174-38 regardless of whether the minimum data availability requirements of RCSA §22a-174-38(j)(2)(A) and (B) are obtained.

c. Record Keeping Requirements

- i. The Permittee shall operate a CEM system to continuously record O₂. The Permittee shall use a 1-hour averaging period. [NSR Permit Nos. 075-0044, -0045, and -0046]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for O₂ CEM systems. [RCSA §22a-174-38(k)(8)]
- iii. The Permittee shall maintain records of the information specified in Section III.A.21.c.ii. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation of the O₂ monitoring from meeting the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 3; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13, and shall identify the cause or likely cause of such deviation, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures no later than 10 days after such deviation commenced. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-33(p)(1)]
- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average. [NSR Permit Nos. 075-0044, -0045, and -0046]

22. Operator Training and Certification

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the facility to be operated at any time unless a certified chief operator or shift operator is physically present at the facility. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(h)(1)-(3)]
- ii. Operators shall be certified by the commissioner under RCSA §22a-231-1 and shall be identified as either a Class I or Class II chief operator or a Class I or Class II shift operator. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(h)(1)-(3)]
- iii. Not later than six months after the date of employment all chief operators and shift operators must satisfactorily complete an operator training course conducted by the commissioner as set forth in RCSA §22a-174-38(h)(3). The equipment operators shall be trained in the operation and maintenance of both the fuel burning and pollution control equipment. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §§22a-174-38(h)(1)-(3)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.22.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the date, the time of the shift, the name of the operator of that shift and the operator's certification. [RCSA §22a-174-38(h)(1)]
- ii. The Permittee shall maintain operator training and certification records on an annual basis, as follows [RCSA §22a-174-38(k)(2)]:
 - (A) The names of the chief operators and shift operators, certified by the commissioner, and employed at the facility, including the dates of initial and renewal certifications and documentation of current

Section III: Applicable Requirements and Compliance Demonstration

certification

- (B) The names of the chief operators and shift operators who have completed an operator training course as required under RCSA §22a-174-38(h)(3)
- (C) The names of the persons at the facility who have completed a training program as required under RCSA §22a-174-38(h)(5)
- iii. The Permittee shall maintain records of the information specified in Section III.A.22.b.ii. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of Receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

23. MWC O&M Manual

a. Limitation or Restriction

- i. The Permittee shall maintain an Operating & Maintenance (O&M) Manual that shall be updated on a yearly basis. The Permittee shall submit any revision to this manual which conflicts or may conflict with any condition of this Title V permit to the commissioner for review and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall establish a training program to review the O&M Manual with each person who has responsibilities affecting the operation of the facility. The training program shall be repeated on an annual basis for each person. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. The Permittee shall develop a site-specific MWC O&M Manual with an index or revise an existing operating and maintenance manual to meet the requirements of RCSA §22a-174-38. Such MWC O&M Manual shall be updated on an annual basis. The MWC O&M Manual shall include [RCSA §22a-174-38(h)(4)]:
 - (A) A summary of the applicable emission limits and operational requirements;
 - (B) A description of basic combustion theory application to a municipal waste combustor unit;
 - (C) Procedures for receiving, handling, and feeding municipal solid waste;
 - (D) Procedures for start-up, shutdown, and malfunction;
 - (E) Procedures for maintaining proper combustion air supply levels;
 - (F) Procedures for operating the combustor within the standards established under RCSA §22a-174-38;
 - (G) Procedures for responding to periodic upset or off-specification conditions;
 - (H) Procedures for minimizing particulate matter carryover;

Section III: Applicable Requirements and Compliance Demonstration

- (I) Procedures for handling ash;
- (J) Procedures for monitoring emissions; and
- (K) Procedures for reporting and record keeping.

- iv. The Permittee shall establish a training program to review the MWC O&M Manual with each person who has responsibilities affecting the operation of a MWC facility including, but not limited to, the chief operator, shift operator, ash handler, maintenance employee, and crane/load handler. The Permittee shall train new employees with the job positions identified in RCSA §22a-174-38(h)(5) prior to each new employee's assumption of any responsibilities at a MWC facility. Following initial training, the training program shall be repeated on an annual basis for each person identified above. [RCSA §22a-174-38(h)(5)]
- iv. The Permittee shall keep the O&M Manual in a location readily accessible to all persons identified in RCSA §22a-174-38(h)(5) and shall be available for inspection by the commissioner or Administrator upon request. [RCSA §22a-174-38(h)(6)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.23.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the name of each person that has reviewed the operating manual, the date of the initial review and the date of the annual review. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall maintain operator training and certification records on an annual basis, as follows: [RCSA §22a-174-38(k)(2)]
 - (A) The names of the chief operators and shift operators, certified by the commissioner, and employed at the facility, including the dates of initial and renewal certifications and documentation of current certification;
 - (B) The names of the chief operators and shift operators who have completed an operator training course as required under RCSA §22a-174-38(h)(3); and
 - (C) The names of the persons at the facility who have completed a training program as required under RCSA §22a-174-38(h)(5).
- iii. The Permittee shall maintain records of the information specified in Section III.A.23.c.ii. of this Title V permit, labeling each record with the time and calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

The Permittee shall submit any revision to this manual which conflicts or may conflict with any condition of NSR Permit Nos. 075-0044, -0045, and -0046 to the commissioner for review and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [NSR Permit Nos. 075-0044, -0045, and -0046]

Section III: Applicable Requirements and Compliance Demonstration

24. Boiler Tube Maintenance

a. *Limitation or Restriction*

The Permittee shall clean the boiler tubes at least twice per year. Additionally, the facility shall clean the boiler tubes when it is determined that the air flow through the boiler has become restricted due to ash build up on the boiler tubes. This determination will be based on a regular evaluation of the boiler draft and pressure drops. Cleaning of the boiler tubes may be done via online water washing.

[NSR Permit Nos. 075-0044, -0045, and -0046]

b. *Monitoring and Testing Requirements*

The Permittee shall evaluate the condition of the boiler tubes based on boiler draft and pressure drops at a regular interval. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

i. The Permittee shall make and keep records of the dates on which the condition of the boiler tubes is evaluated based on boiler draft and pressure drops, the name of the inspector and the evaluation of the condition of the boiler tubes. [NSR Permit Nos. 075-0044, -0045, and -0046]

ii. The Permittee shall make and keep records of the dates on which cleaning of the boiler tube heat transfer surfaces is performed. [NSR Permit Nos. 075-0044, -0045, and -0046]

d. *Reporting Requirements*

The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the dates on which cleaning of the boiler tube heat transfer surfaces is performed for each MWC. [NSR Permit Nos. 075-0044, -0045, and -0046]

25. Control Equipment

a. *Limitation or Restriction*

i. There shall be a minimum of eight of fabric filter compartments in service at any time. [NSR Permit Nos. 075-0044, -0045, and -0046]

ii. The Permittee shall properly maintain and operate the fabric filter, the spray dryer absorber, and the SNCR system at all times in accordance with the requirements of RCSA §22a-174-7. [NSR Permit Nos. 075-0044, -0045, and -0046]

iii. In the event of a malfunction of the pollution control systems, which results in an exceedance of an applicable emission limit, the Permittee shall not charge any RDF or coal into the effected MWC units until after the air pollution control equipment has been put back on-line. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. *Monitoring and Testing Requirements*

i. Record keeping specified in Section III.A.25.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

ii. The Permittee shall continuously monitor and record total combine overfire and underfire air, fabric filter (FF)/spray dryer absorber (SDA) system differential pressure, SDA lime slurry flow rate and selective non-catalytic reduction (SNCR) reagent injection rate. [NSR Permit Nos. 075-0044, -0045, and -0046]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.25.a. of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

26. Control of Airborne Particulate Matter

a. Limitation or Restriction

i. The Permittee shall institute and comply with the following conditions at all times:
[NSR Permit Nos. 075-0044, -0045, and -0046]

- (A) Sufficient wind-sheltered and storage capacity for refuse, residual particulates and bottom ash on site and provision for landfill disposal of same must be provided for, in the event of strike, malfunction of air pollution control equipment, or other interruption.
- (B) Vehicular traffic areas shall be paved at the facility.
- (C) Transfer, storage and transportation at and from the facility, of materials collected from the furnace grates and air pollution control equipment shall be transferred in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.
- (D) The Permittee shall implement a cleanup program on at the facility whereby at least once per day any refuse, RDF or other materials, which may become airborne will be collected.
- (E) The Permittee shall not allow the public to have uncontrolled access to any portion of this premises.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.26.c. of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.26.a. of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

27. General Stack Testing Requirements

a. Limitation or Restriction

Section III: Applicable Requirements and Compliance Demonstration

- i. Stack emission testing shall be performed in accordance with the Department's Emission Test Guidelines. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall submit the intent-to-test (ITT) package to the Stack Test Group of the Bureau of Air Management at least 90 days before the proposed source test date. The Permittee shall provide written notification to the commissioner three business days prior to conducting any stack test. The Permittee shall submit an acceptable test report to the commissioner within 60 days of the completion of the performance test. [NSR Permit Nos. 075-0044, -0045, and -0046]
- iii. All performance stack tests shall be conducted under representative full load operating conditions. [RCSA §22a-174-38(i)(1) and Permit Nos. 075-0044, -0045, and -0046]
- iv. Pursuant to RCSA §22a-174-5(e) and §22a-174-29(e), the commissioner may require the Permittee to conduct additional performance testing of any pollutant, possibly on an annual basis, based on CEM data, emission test results, and any other information that the commissioner deems appropriate. [NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.27.c. of this Title V permit shall be sufficient to meet other Monitoring and testing Requirements pursuant to RCSA §22-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all required performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.27.a. of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

- i. The Permittee shall submit reports to the commissioner of all required performance tests. [NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

B. EMISSIONS UNIT 4 (EU-4) – ASH HANDLING SYSTEM

Subject to: Collateral Condition in Permit Nos. 075-0044, 075-0045, 075-0046; RCSA §22a-174-38

1. Fugitive Ash Emissions

a. Limitation or Restriction

- i. Except during periods of maintenance and repair of ash conveying systems, the visible emissions to the atmosphere from the conveyance or transfer of combustion ash shall be limited to 5% of the observation period (i.e., 9 minutes per 3-hour period), as set forth in RCSA §22a-174-38(i)(4)(I). [RCSA §22a-174-38(f) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. During periods of maintenance and repair of the ash conveyance systems all reasonable measures to control

Section III: Applicable Requirements and Compliance Demonstration

fugitive ash emissions shall be implemented. [RCSA §22a-174-38(f) and NSR Permit Nos. 075-0044, -0045, and -0046]

- iii. This emission limitation shall not apply to visible emissions discharged inside buildings or within enclosures of ash conveying systems, however the limitation shall apply to visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems. [RCSA §22a-174-38(f) and NSR Permit Nos. 075-0044, -0045, and -0046]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct an annual performance test for fugitive ash at least once per calendar year, such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)]
- ii. Testing for fugitive ash emissions shall be conducted in accordance with the following procedures [RCSA §22a-174-38(i)(4)(I):
 - (A) 40 CFR Part 60, Appendix A, Reference Method 22 shall be used for determining compliance with the fugitive ash emissions limit;
 - (B) The minimum observation time shall be a series of three one-hour observations; and
 - (C) The observation period shall include representative operational times when the facility is transferring ash from the municipal waste combustor unit to the area where ash is stored or loaded into containers or trucks.

c. Record Keeping Requirements

- i. The Permittee shall record test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in RCSA §22a-174-38 for fugitive ash. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records of the information specified in Section III.B.1.c.i. of this Title V permit, labeling each record with the calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i) and NSR Permit Nos. 075-0044, -0045, and -0046]
- ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [NSR Permit Nos. 075-0044, -0045, and -0046; RCSA §22a-174-38(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

C. GROUPED EMISSIONS UNIT 5 (GEU-5) – NATURAL GAS FIRED BOILERS

Subject to: 40 CFR Part 63 Subpart DDDDD

1. WORK PRACTICE STANDARD

a. Limitation or Restriction

The Permittee shall conduct a Tune-up of EU-29 and EU-30 every five years as specified in 40 CFR §63.7540. [40 CFR §63.7540(A)(12)]

b. Monitoring and Testing Requirements

- i. In conducting the required every five year Tune-up of EU-29 and EU-30 the Permittee shall conduct the following monitoring measures in accordance with 40 CFR §63.7540(A)(10)(i), (ii),(iii),(iv), and (v). [40 CFR §63.7540(A)(12)]
 - (A) Inspect the burner, and clean or replace any components of the burner as necessary;
 - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly;
 - (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available; and
 - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken by using a portable CO analyzer.

c. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any notification of compliance status. [40 CFR §63.7555(A)(1)]
- ii. The Permittee shall maintain a report containing the following information pertinent to each tune-up on-site: [40 CFR §63.7540(A)(10)(VI)]
 - (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the Tune-up of the boilers; and
 - (B) A description of any corrective actions taken as a part of the Tune-up.
- iii. The Permittee shall make and keep records sufficient to prove that an energy assessment was completed including the date on which such energy assessment was conducted for EU-29 only. [40 CFR §63.7530(e); RCSA §22a-174-4(D)(1)]
- iv. The Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records

Section III: Applicable Requirements and Compliance Demonstration

available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. [RCSA §22a-174-33(o)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

D. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/ Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
13. **Mobile Sources:** Mobile sources present at the facility shall comply with the standards for mobile sources as set forth in RCSA §22a-174-18(b)(3).
14. **Fuel Sulfur Content:** On or after July 1, 2018, the Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21-a(a)(2)(B).
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide

Section III: Applicable Requirements and Compliance Demonstration

emissions as set forth in RCSA §§22a-174-22, 22a-174-22e and 22a-174-22f.

18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174-(f).
20. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
21. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
22. **Municipal Waste Combustors:** The Permittee shall comply with the standards for Municipal Waste Combustors as set forth in RCSA §22a-174-38.

Section IV: Compliance Schedule

| TABLE IV: COMPLIANCE SCHEDULE | | | | |
|--------------------------------------|-------------------------------|--|---|--|
| Emissions units | Applicable regulations | Steps required for achieving compliance (Milestones) | Date by which each step is to be completed | Dates for monitoring, record keeping, and reporting |
| | | No steps are required for achieving compliance at this time. | | |
| | | | | |
| | | | | |

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Energy and Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

State Enforceable Terms and Conditions

- A. This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B. Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C. Additional Emissions Units
 - 1. The Permittee shall make and submit a written record, at the commissioner's request, within 30 days of receipt of notice from the commissioner, or by such other date specified by the commissioner, of each additional emissions unit or group of similar or identical emissions units at the premises.
 - 2. Such record of additional emissions units shall include each emissions unit, or group of emissions units, at the premises which is not listed in Section II.A of this Title V permit, unless the emissions unit, or group of emissions units, is:
 - a. an insignificant emissions unit as defined in RCSA §22a-174-33; or
 - b. an emissions unit or activity listed in *White Paper for Streamlined Development of Part 70 Permit Applications, Attachment A* (EPA guidance memorandum dated July 10, 1995).
 - 3. For each emissions unit, or group of emissions units, on such record, the record shall include, as available:
 - a. Description, including make and model;
 - b. Year of construction/installation or if a group, range of years of construction/installation;
 - c. Maximum throughput or capacity; and
 - d. Fuel type, if applicable.
- D. Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- E. Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- F. Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

Section VI: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of the Department of Energy and Environmental Protection have the authority to enforce the terms and conditions contained in this section.

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the commissioner of any document required by this Title V permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this Title V permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this Title V permit, the word "day" means calendar day. Any document or action which is required by this Title V permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: U.S. EPA New England, 5 Post Office Square, Suite 100 (OES04-2), Boston, Massachusetts 02109, Attn: Air Clerk.

B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V permit and any other information submitted to the commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(4):

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

Section VI: Title V Requirements

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
 - i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
 - ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
 - iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, the Permittee shall submit information to address any requirements that become applicable to the subject source and shall submit correct, complete, and sufficient information within 15 days of the applicant's becoming aware of any incorrect, incomplete, or insufficient submittal, during the pendency of the application, or any time thereafter, with an explanation for such deficiency and a certification pursuant to RCSA §22a-174-2a(a)(5).

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A Permittee, required to perform monitoring pursuant to this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required

Section VI: Title V Requirements

monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]

The Permittee shall, on March 1 and September 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in 40 CFR §§70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be

Section VI: Title V Requirements

simultaneously submitted by the Permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)]

Notwithstanding Section VI.E. of this Title V permit, the Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]

All of the terms and conditions of this Title V permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §§22a-174-33(g), -33(h), and -33(i).

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]

This Title V permit shall not be deemed to:

1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and -33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;
2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;
3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and -33(g)(3)(B) unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

Section VI: Title V Requirements

N. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of this Title V permit.

O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]

The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]

This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not parties to this Title V permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]

The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR §§70.4(b)(12)(i) to (iii)(B), inclusive, and 40 CFR §§70.4(b)(14)(i) to (iv), inclusive, without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. Constitute a modification under 40 CFR Part 60, 61 or 63;
2. Exceed emissions allowable under the subject permit;
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

Section VI: Title V Requirements

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V permit. The commissioner and the Permittee shall each attach a copy of such notice to their copy of the Title V permit.

V. TRANSFERS [RCSA §22a-174-2a(g)]

No person other than the Permittee shall act or refrain from acting under the authority of this Title V permit unless such permit has been transferred to another person in accordance with RCSA §22a-174-2a(g).

The proposed transferor and transferee of a permit shall submit to the commissioner a request for a permit transfer on a form provided by the commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS §22a-6o.

W. REVOCATION [RCSA §22a-174-2a(h)]

The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has determined that the commissioner failed to act in a timely manner on a permit renewal application.

This Title V permit may be modified, revoked, reopened, reissued, or suspended by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), CGS §22a-174c, or RCSA §22a-3a-5(d).

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.