

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.

Title V Permit Number	015-0219-TV
Client/Sequence/Town/Premises Numbers	2245/005/015/0765
Date Issued	April 28, 2022
Expiration Date	April 28, 2027

Corporation:

Wheelabrator Bridgeport, L.P.


Premises Location:

6 Howard Avenue, Bridgeport, Connecticut 06605

Name of Responsible Official and Title:

Phil Schwer, Plant Manager

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

for 
Katherine S. Dykes
Commissioner

April 28, 2022
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	8
B. Operating Scenario Identification - Table II.B	10
Section III. Applicable Requirements and Compliance Demonstration	
A. Grouped Emissions Unit 001	12
B. Emissions Unit 007	37
C. Grouped Emissions Unit 002	38
D. Premises-Wide General Requirements	41
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	47
B. Certifications [RCSA §22a-174-33(b)]	47
C. Signatory Responsibility [RCSA §22a-174-2a(a)]	47
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)]	48
E. Monitoring Reports [RCSA §22a-174-33(o)(1)]	48
F. Premises Records [RCSA §22a-174-33(o)(2)]	48
G. Progress Reports [RCSA §22a-174-33(q)(1)]	49
H. Compliance Certifications [RCSA §22a-174-33(q)(2)]	49
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)]	49
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)]	49
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)]	50
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)]	50
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
AOS	Alternative Operating Scenario
ASC	Actual Stack Concentration
Btu	British Thermal Units
CAA	Clean Air Act Amendments of 1990
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CH ₄	Methane
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
DEEP	Department of Energy and Environmental Protection
Dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
ePFTE	Expanded Polytetrafluoroethylene
Ft	Feet
Ft ²	Square Feet
GAL	Gallons
GEU	Grouped Emissions Unit
H ₂ O	Water
HAP	Hazardous Air Pollutant
HCl	Hydrogen Chloride
HHV	Higher Heating Value
Hg	Mercury
Hp	Horsepower
Hr	Hour
Lb	Pound
Min	Minute
MMBtu	Million British Thermal Units
MMcf	Million Cubic Feet
MRC	Maximum Rated Capacity
MSW	Municipal Solid Waste
MWC	Municipal Waste Combustor
Ng	Nanogram
No.	Number
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
O&M	Operating and Maintenance

LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
PAC	Powdered Activated Carbon
PACIS	Powdered Activated Carbon Injection System
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns in diameter
PM _{2.5}	Particulate Matter less than 2.5 microns in diameter
Ppmvd	Parts per million, volumetric dry basis
Psig	Pounds per Square Inch (gage)
RICE	Reciprocating Internal Combustion Engine
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SNCR	Selective Non-Catalytic Reduction
SO ₂	Sulfur Dioxide
SOS	Standard Operating Scenario
SDA	Spray Dryer Absorber
Tpy	Tons per year
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Resource Recovery Facility
Primary SIC: 4953

Facility Mailing Address: Wheelabrator Bridgeport, L.P.
6 Howard Avenue
Bridgeport, CT 06605

Telephone Number: (203) 579-2607

B. PREMISES DESCRIPTION

Wheelabrator Bridgeport, L.P. operates a resource recovery facility. The facility exceeds the major source threshold for PM, SO₂, NO_x, VOC, CO and HAPs and is located in a severe ozone non-attainment area as defined in RCSA §22a-174-1(104). The facility combusts municipal solid waste (MSW) and Special Waste to produce electricity. Electrical power is distributed to the United Illuminating's electrical network. The plant's total nominal output is 69.5 Megawatts. There are no active DEEP orders.

Municipal Waste Combustors:

Three Babcock & Wilcox waterwall furnace/watertube boiler systems (EU-1, 2 and 3) combust MSW and Special Waste to produce steam which is in turn used to produce electricity by a steam turbine. Natural gas is used for startup and flame stabilization. Each municipal waste combustor (MWC) is equipped with a spray dryer absorber for acid gas control, a fabric filter for particulate matter control, a powdered activated carbon injection system for control of mercury and a selective non-catalytic reduction system for control of NO_x emissions. Each MWC is also equipped with continuous emission monitors to monitor opacity, SO₂, NO_x and CO. The MWCs are permitted and were issued NSR permits to construct 015-0097, 015-0098 and 015-0099 on 10/23/1985. The NSR permits to operate were issued on 2/15/1990 and the most recent NSR permit modifications were issued on 10/21/2016.

Lime Silo:

A lime silo stores lime used in the spray dryer absorbers. It is equipped with a fabric filter for particulate matter control. The lime from the silo is slaked in two lime slakers. Each slaker is equipped with a dust arrestor system. These are insignificant activities. Permits are not required.

Ash Conditioner/Handling System:

The ash generated on the combustor grates and removed from the flue gas stream is introduced into the ash handling system (EU-7) where the ash is conveyed through metals removing equipment and an ash conditioning system. The bottom ash and fly ash are handled separately. Fly ash is wetted and treated in a pug mill. A permit is not required.

Emergency Fire Pump:

A 267hp Caterpillar diesel engine (EU-8) powers an emergency fire pump, constructed on 2/14/1986. EU-8 operates under RCSA §22a-174-3b and is subject to 40 CFR Part 63 Subpart ZZZZ as an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

Emergency Engine:

A 64hp Spectrum Detroit Diesel emergency diesel engine (EU-9) supplies emergency power to the facility, constructed on 6/1/2003. EU-9 operates under RCSA §22a-174-3b and is subject to 40 CFR Part 63 Subpart ZZZZ as an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

Section I: Premises Information/Description

Carbon Silo:

A carbon silo stores powdered activated carbon (PAC) for all three units. PAC is pneumatically conveyed from bulk delivery trucks into the storage silo. A silo roof-mounted pulse jet dust collector is used to control dust during silo filling. PAC is injected upstream of each spray dryer absorber for mercury emissions control. This is an insignificant activity. A permit is not required.

Solvent Degreaser:

As part of the maintenance operation, a small solvent degreaser is used to remove oil, grease and other material from small equipment parts using non-VOC Bio-enzyme solvents. This is an insignificant activity. A permit is not required.

Section II: Emissions Units Description

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit		Emissions Unit Description	Control Unit Description	NSR Permit or Regulation Number
GEU-1 Municipal Waste Combustors	EU-1	<p>Babcock & Wilcox Waterwall Furnace/Watertube Boiler Systems Installation Date: 01/13/88</p> <p>Incinerator Design Maximum Charging Rate: 750 tons per day of MSW based on a design HHV of 5,200 Btu/lb Maximum Heat Input Rate: 325 MMBtu/hr Design Steam Flow Rate: 196,800 lbs/hr @ 900 psig and 830°F</p> <p>Auxiliary Burner System Number of Burners: two Fuel Type: Natural Gas Burner Manufacturer/Model No: Babcock & Wilcox Maximum Auxiliary Fuel Firing Rate (MCF/hr): 70 each burner</p>	<p>Control Equipment</p> <p>Fabric Filter: 10 compartments @ 8280 ft² each - a minimum of 8 compartments shall be in service when the unit is operating.</p> <p>Make and Model: Wheelabrator-Frye Air/Cloth Ratio: 2.28:1 (with 10 compartments) and 2.85:1 (with 8 compartments) Bag Material: fiberglass with acid resistant finish or fiberglass with ePFTE membrane Cleaning Method: Automatic Pressure Drop Across Each Compartment (inches H₂O): 3.5-15 Pressure Drop Across Baghouse (inches H₂O): 3.5-15 Inlet Temperature: Not to exceed 17°C (30°F), based on a 4-hour arithmetic average, above the maximum demonstrated particulate matter control device inlet temperature Design Removal Efficiency (%): 99% +</p>	NSR Permit No. 015-0097 RCSA §22a-174-38 40 CFR Part 60 Subpart Cb

Section II: Emissions Units Description

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit		Emissions Unit Description	Control Unit Description	NSR Permit or Regulation Number
	EU-2	Maximum Gross Heat Input (MMBTU/hr): 70 each burner Stack Parameters Minimum Stack Height (ft above grade): 295 Minimum Exhaust Gas Flow Rate (acfm): 189,000 @ 250°F Normal Stack Exit Temperature, Range (°F): 250-350 Minimum Distance from Stack to Property Line (ft): 104	Spray Dryer Absorber (SDA) Make and Model: Wheelabrator-Frye Lime Usage: 0-1400 lbs/hr Water Usage: 0-45 gal/min Inlet Gas Temperature: 400-550°F Selective NonCatalytic Reduction (SNCR) Make and Model: Halcyon Mechanical Services Control Reagent: Urea Reagent Injection Rate: 0-35 gallons per hour Temperature Range: 1600-2100 °F Furnace Mixing Time: minimum 0.5 seconds Powdered Activated Carbon Injection System: Operational parameters required to achieve maximum mercury reduction are established by stack test results: Make and Model: Halcyon Technologies PACIS Control Reagent: Powdered Activated Carbon Reagent Injection Rate: 0-50 pounds per hour Design Removal Efficiency (%): 85%	NSR Permit No. 015-0098 RCSA §22a- 174-38 40 CFR Part 60 Subpart Cb
	EU-3			NSR Permit No. 015-0099 RCSA §22a- 174-38 40 CFR Part 60 Subpart Cb
EU-7		Ash Conditioner/Handling System Installation Date: 02/21/88 MRC: 750 tons/ day (nominal)	Wet Scrubber	None
GEU-2 Emergency	EU-8	Caterpillar 3306 BDIT Diesel Engine Powering an Emergency Fire Pump	None	RCSA §22a- 174-3b

Section II: Emissions Units Description

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit		Emissions Unit Description	Control Unit Description	NSR Permit or Regulation Number
Engines		Installation Date: 2/14/86 MRC: 15.5 gal/hr		40 CFR Part 63 Subpart <i>ZZZZ</i>
	EU-9	Spectrum Detroit Diesel 20DSEJB Emergency Diesel Engine Installation Date: 6/1/03 MRC: 8.6 gal/hr	None	RCSA §22a-174-3b 40 CFR Part 63 Subpart <i>ZZZZ</i>

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
SOS	GEU-1	The standard operation of the MWCs is the combustion of MSW and Special Waste to produce steam, which in turn is used to generate electricity.
	GEU-2	The standard operation of the emergency fire pump (EU-8) is to supply water in emergency situations when normal fire fighting procedures cannot be followed. The standard operation of the emergency diesel engine (EU-9) is to supply power to the facility in emergency situations.
	The standard operation of the lime silo is to store lime used in the spray dryer absorbers. The standard operation of the two lime slakers is to prepare the lime for use in the spray dryer absorbers.	

Section II: Emissions Units Description

TABLE II.B: OPERATING SCENARIO IDENTIFICATION

Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
		The standard operation of the ash handling system is to remove the ash from both the combustor grates and the flue gas stream, convey the ash through metals removing equipment and an ash conditioning system, and load the ash onto trucks for removal from the facility.
		The standard operation of the carbon silo is to store powdered activated carbon for injection upstream of each spray dryer.

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSION UNIT 1 [EU-1, EU-2, EU-3] MWCs Nos. 1, 2 and 3 (Subject to P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38, 40 CFR Part 60 Subpart Cb)

1. Materials Charged, Maximum Charging Rate and Hours of Operation

a. Limitation or Restriction

- i. Material Charged: [P-015-0097, P-015-0098, P-015-0099]
 - (A) Municipal solid waste, as defined and restricted under CGS 22a-207 et seq. and any applicable Bureau of Materials Management and Compliance Assurance permit.
 - (B) Special waste as defined in RCSA §22a-209-1 and in accordance with the Permittee's most recently DEEP approved Special Waste Disposal Plan issued pursuant to CGS §22a-208y.
- ii. Maximum Allowable Daily Charging Rate: [P-015-0097, P-015-0098, P-015-0099]
 - (A) The Maximum Allowable Daily Charging Rate for MSW is based upon the maximum allowable heat input rate to the furnace/boiler of 325 MMBtu/hr in accordance with the chart in Appendix G of the units' NSR permits, setting forth the maximum allowable daily MSW charging rate (tons/day) as a function of the MSW higher heating value (Btu/lb).
 - (B) The Permittee shall combust no more than 180 tons per day of Special Waste in total for the three municipal waste combustor units at this facility.
 - (C) Medical waste, or waste that originated as medical waste, shall not be combusted in this unit, unless it is done in compliance with Section III.A.1.a.ii.(B) of this Title V permit.

b. Monitoring Requirements

- i. The Permittee shall monitor the quantity of MSW combusted for the facility, using truck scale house weight data and the refuse pit inventory. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall monitor the quantity of Special Waste charged at each of the three municipal solid waste combustors. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall monitor the hours of operation for each MWC. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall record the Special Waste daily charging rate for each of the three municipal solid waste combustors and the combined daily total for the facility. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall keep records summarizing the combined monthly total quantity of Special Waste received by the facility in accordance with the most recently DEEP approved Special Waste Disposal Plan. These records shall identify the categories of Special Waste received by the facility each month and the corresponding monthly totals for each of these categories. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall make and keep records of the monthly and consecutive 12 month quantity of MSW and Special Waste combusted at the facility, in tons. The monthly quantity of MSW for the facility shall be determined by summing the truck scale house weight data for the month minus the refuse pit inventory. The pit inventory will be measured on the Sunday nearest to the end of the month and pro-rated for the full month. The consecutive 12 month quantity of MSW and Special Waste combusted shall be determined by adding the current month's MSW and Special Waste combusted to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of each month. [P-015-0097, P-015-0098, P-015-0099]

Section III: Applicable Requirements and Compliance Demonstration

- iv. For each MWC unit, the Permittee shall record the daily hours of operation, in which periods of start-up and shutdown are distinguished. The Permittee shall label each record with the time and calendar date on which the data was generated.
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(1) and (13)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. Each quarterly report shall include the applicable information, as set forth in RCSA §§22a-174-38(l)(2) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9).
[RCSA §§22a-174-38(l)(2) and (7) through (9)]

2. Auxiliary Burner System

a. Limitation or Restriction

- i. The auxiliary burner system is limited to burning natural gas.
[P-015-0097, P-015-0098, P-015-0099]
- ii. The annual capacity factor, as defined in 40 CFR §60.41b, for natural gas shall not exceed 10%, in accordance with 40 CFR Part 60.44b(d), for each MWC.
[P-015-0097, P-015-0098, P-015-0099]
- iii. The auxiliary burner system shall have the capability of raising combustion gas temperature to 1800 °F for a combustion gas residence time of at least one second, except during periods of start-up, shutdown or malfunction as defined in 40 CFR §60.2. Such system shall be capable of maintaining a minimum combustion temperature of 1500 °F after secondary air injections for at least one second. The combustion gas temperature when firing MSW, at all times, shall be at a minimum of 1800 °F for a minimum of one second residence time, measured at the one second plane. Measurement of the superheater outlet temperature is a surrogate for the furnace temperature combustion gas temperature and residence time based on the time-temperature test.
[P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall monitor the quantity of natural gas used for each MWC, using either fuel purchase receipts or a non-resettable totalizing fuel meter. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall install and use equipment to monitor the required combustion temperatures and associated residence times of each furnace. Averaging time is a four-hour block average.
[P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the monthly and consecutive 12 month natural gas usage, in million cubic feet (MMCF), for each MWC. The consecutive 12 month natural gas usage shall be determined by adding the current month's natural gas usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of each month.
[P-015-0097, P-015-0098, P-015-0099]
- ii. For each MWC unit, the Permittee shall record the daily fossil fuel usage rates for each fuel. The Permittee shall label each record with the time and calendar date on which the data was generated.
[RCSA §§22a-174-38(k)(1) and (13)]
- iii. The Permittee shall calculate and record the annual capacity factor for natural gas for each calendar quarter for each MWC. The annual capacity factor is determined on a 12 month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

Section III: Applicable Requirements and Compliance Demonstration

[P-015-0097, P-015-0098, P-015-0099]

- iv. The Permittee shall keep sufficient records to determine compliance with the required combustion temperatures and associated required residence times. These records shall include the time-temperature test results, monitoring records of furnace temperature as measured at the superheater outlet, and a sample calculation identifying the superheater outlet temperature corresponding to a combustion gas temperature of 1800°F for a minimum of one second residence time, measured at the one second plane. [P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.2.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall review all recorded Furnace Temperature CEM data daily. The Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation, 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, no later than ten days after such deviation commenced. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall report all Furnace Temperature CEM data, to the Commissioner on a quarterly basis using a 4-hour block average. [P-015-0097, P-015-0098, P-015-0099]

3. Unit Load

a. Limitation or Restriction

- i. The maximum allowable steam flow rate is 216,480 lbs/hr per each unit in GEU-1. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall not cause or allow each unit in GEU-1 to operate at a MWC unit load greater than one hundred ten percent (110%) of the maximum demonstrated four-hour average MWC unit load, based on a four-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. MWC unit load shall be measured by a steam flow meter. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(g)(2)]
- iii. 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 MWC load limits in excess of that specified in RCSA §22a-174-38(g)(2). However, should the Permittee operate the units at such excess loads, the Permittee shall not again be allowed to operate at such excess loads 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 Requirements

- i. The Permittee shall install, operate, calibrate and maintain steam flow meters for measuring MWC unit load. Averaging time is a four-hour block average. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(j)(1)]
- ii. The steam flow meters 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:
 - (A) Data available for the unit load CEMs shall not be less than ninety percent (90%) of the total operating hours in any one calendar quarter and not less than ninety-five percent (95%) of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]

Section III: Applicable Requirements and Compliance Demonstration

- (B) Obtain valid one-hour averages for seventy-five percent (75%) of the operating hours per day for ninety percent (90%) of the operating days per calendar quarter during which the units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
- (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average; and [RCSA §22a-174-38(j)(2)(D)]
- (D) The percentage of data available shall be calculated as follows:
[RCSA §22a-174-38(j)(2)(F)]
 - (1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and
 - (2) Using all data obtained from the unit load CEMs to calculate emissions 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 maintain records of the one-hour average and the four-hour block average MWC unit loads. Records shall include:
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(3) and (4)]
 - (A) The calendar dates when any of the average unit loads exceeded the applicable limit, the reason for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]
 - (B) The calendar dates for which the minimum number of hours of 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)]
 - (C) The Permittee shall identify any exclusion of unit load operational data from the data collected for that parameter and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]
- ii. The Permittee shall label each record with the time and calendar date on which the data was generated and all records 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 the records specified in Section III.A.3.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall review all recorded Unit Load CEM data daily. The Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation, 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, no later than ten days after such deviation commenced. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall report all Unit Load CEM data, to the Commissioner on a quarterly basis using a 4-hour block average. [P-015-0097, P-015-0098, P-015-0099]
- iv. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. Each quarterly report shall include the applicable information, as set forth in RCSA §§22a-174-38(l)(2) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(2) and (7) through (9)]
- v. 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 applicable information, as set forth in RCSA §§22a-174-38(l)(3) and (7), and shall be submitted

Section III: Applicable Requirements and Compliance Demonstration

in the manner specified in RCSA §§22a-174-38(1)(8) and (9).

[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(3) and (7) through (9)]

4. Inlet Gas Temperature and Pressure Drop 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 degrees centigrade (30 degrees Fahrenheit), based on a four-hour block average, above the maximum demonstrated particulate matter control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved.

[P-015-0097, P-015-0098, P-015-0099, 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 Permittee 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 Requirements

- i. The Permittee shall install, operate, calibrate and maintain continuous monitoring systems for measuring the temperature of the flue gas stream at the inlet to the particulate control device for each MWC. Temperature shall be calculated in four-hour block arithmetic averages.

[P-015-0097, P-015-0098, P-015-0099]

- ii. The Permittee shall comply with the following minimum data requirements:

(A) Data available for the fabric filter inlet temperature CEMs shall not be less than ninety percent (90%) of the total operating hours in any one calendar quarter and not less than ninety-five percent (95%) of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]

(B) Obtain valid one-hour averages for seventy-five percent (75%) of the operating hours per day for ninety percent (90%) of the operating days per calendar quarter during which the units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]

(C) At least three equally spaced data points per hour shall be used to calculate a one-hour average; and [RCSA §22a-174-38(j)(2)(D)]

(D) The percentage of data available shall be calculated as follows:
[RCSA §22a-174-38(j)(2)(F)]

(1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and

(2) Using all data obtained from the fabric filter inlet temperature CEMs to calculate emissions 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. The Permittee shall also install, operate, calibrate and maintain continuous monitoring systems for measuring the pressure drop across the fabric filter for each MWC unit. Pressure drops shall be calculated in one-hour arithmetic averages. [P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the one-hour average and the four-hour block average fabric filter inlet temperatures. Records shall include:

[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(3) and (4)]

Section III: Applicable Requirements and Compliance Demonstration

- (A) The calendar dates when any of the average fabric filter inlet temperatures exceeded the applicable limit, the reason for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]
 - (B) The calendar dates for which the minimum number of hours of 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)]
 - (C) The Permittee shall identify any exclusion of fabric filter inlet temperature operational data from the data collected for that parameter and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]
- ii. The Permittee shall label each record listed in Section III.A.4.c.i. of this Title V permit with the time and calendar date on which the data was generated. [RCSA §22a-174-38(k)(1)]
 - iii. The Permittee shall make and keep records of the information specified in Section III.A.4.b.i and iii. of this Title V permit. [P-015-0097, P-015-0098, P-015-0099]
- d. *Reporting Requirements*
- i. The Permittee shall provide the records specified in Section III.A.4.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
 - ii. The Permittee shall review all recorded Baghouse Inlet Temperature and Pressure Drop CEM data daily. The Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation, 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, no later than ten days after such deviation commenced. [P-015-0097, P-015-0098, P-015-0099]
 - iii. The Permittee shall report all Baghouse Inlet Temperature and Pressure Drop CEM data, to the Commissioner on a quarterly basis using a 4-hour block average. [P-015-0097, P-015-0098, P-015-0099]
 - iv. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. Each quarterly report shall include the applicable information, as set forth in RCSA §§22a-174-38(l)(2) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(2) and (7) through (9)]
 - v. 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 applicable information, as set forth in RCSA §§22a-174-38(l)(3) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(3) and (7) through (9)]

5. Particulate Matter

- a. *Limitation or Restriction*
- i. The Permittee shall not cause or allow emissions of particulate matter in excess of 25 milligrams per dry standard cubic meter of exhaust gas corrected to seven percent oxygen, for each MWC. This emission limit shall apply at all times except during periods of startup (including any warm-up period when firing natural gas only), shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(1)]
 - ii. The particulate matter emissions from each MWC shall not exceed 7.9 lb/hr, 0.0243 lb/MMBtu and 34.6 tpy. [P-015-0097, P-015-0098, P-015-0099]

Section III: Applicable Requirements and Compliance Demonstration

- iii. Shutdown Limit: In the event that the PM emissions rate exceeds 0.020 grams per dry standard cubic meter corrected to 12% CO₂ (dry basis), as determined through stack testing compliance data, the Permittee shall cease operation of the furnace. The furnace will be permitted to restart only after the Permittee demonstrates to the commissioner's satisfaction that sufficient corrective action has been taken. Within three days after restarting operation under this circumstance, the Permittee shall demonstrate in writing to the commissioner's satisfaction that it is in compliance with the particulate emission limit. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall demonstrate compliance with the above emission limits by calculating the emission rates from the annual particulate matter stack test results. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall conduct an annual performance test for particulate matter, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine calendar months and no more than fifteen (15) calendar months following the previous test. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(2)]
- iii. The particulate matter performance tests shall be carried out with the MWCs operating at approximately 100% of the maximum unit load (i.e., maximum rated capacity), and as set forth in RCSA §22a-174-38(i). [P-015-0097, P-015-0098, P-015-0099]
- iv. Testing for particulate matter shall be conducted in accordance with the following: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(4)(A)]
 - (A) 40 CFR 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 60, Appendix A, Reference Method 3 shall be used for flue gas analysis for particulate matter testing.
 - (C) 40 CFR 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 cubic meters; the probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 +/- 14 degrees centigrade; and an oxygen or carbon dioxide 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 keep records of 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 particulate matter. The Permittee shall label each record with the time and calendar date on which the data was generated. The relationship between carbon dioxide and oxygen concentrations shall be recorded if the relationship is reestablished during the annual performance test. [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(1) and (10)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month PM emissions in units of tons. The consecutive 12-month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month [P-015-0097, P-015-0098, P-015-0099]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.5.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a performance test plan for review and written approval of the commissioner, at least ninety (90) days before a required performance test is conducted. At a minimum, such plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. The Permittee shall also provide written notification to the commissioner three business days prior to conducting a performance test. [RCSA §§22a-174-38(l)(4) and (5)]
- 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 the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for PM in units of tons per year for each MWC.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(l)(3)]
- iv. The Permittee shall provide written notification to the commissioner within seventy-two (72) hours of the time at which the Permittee receives information regarding performance test results indicating that any particulate matter emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [P-015-0097, P-015-0098, P-015-0099]
- v. The Permittee shall submit all reports and notifications required by RCSA §22a-174-38(l) on forms furnished or prescribed by the commissioner and in the manner specified in RCSA §22a-174-38(l)(9). These reports shall include a certification signed in accordance with RCSA §22a-174-2a(a)(4). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(l)(7) through (9)]

6. Opacity

a. Limitation or Restriction

- i. The Permittee shall not cause or allow visible emissions in excess of 10% opacity. The emission limit shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(1)]
- ii. Continuous compliance with the opacity emission limit shall be based on a six-minute arithmetic average. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(5)]
- iii. For the purpose of compliance with the opacity emission limits, during each period of startup, shutdown or malfunction, the opacity limits shall not be exceeded during more than five 6-minute arithmetic average measurements. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall install, operate, calibrate and maintain a continuous emission monitoring systems for opacity and shall certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring systems have been met and are being met. Opacity monitors shall meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance Specification 1; RCSA §22a-174-4; and 40 CFR 60.13.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(j)(1)(A)]
- ii. The Permittee shall comply with the following minimum data requirements:
 - (A) Data available for opacity CEMs shall not be less than ninety-five percent (95%) of the total operating hours in any one calendar quarter; [RCSA §22a-174-38(j)(2)(B)]
 - (B) The percentage of data available shall be calculated as follows:
[RCSA §22a-174-38(j)(2)(F)]

Section III: Applicable Requirements and Compliance Demonstration

- (1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and
- (2) Using all data obtained from the opacity CEMs to calculate emissions 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 maintain records of the six-minute arithmetic average opacity levels. Records shall include: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(3)]
 - (A) The calendar dates when any of the opacity levels exceeded the applicable limit, the reason for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]
 - (B) The calendar dates for which the minimum number of hours of 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)]
- ii. The Permittee shall make and keep records of the results of daily calibrations and quarterly accuracy determinations for opacity continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]
- iii. The Permittee shall label each record with the time and calendar date on which the data was generated and all records 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 the records specified in Section III.A.6.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall provide written notification to the commissioner within seventy-two (72) hours of the time at which the Permittee receives information regarding performance test results indicating that opacity levels exceed the applicable limits or standards defined in RCSA §22a-174-38. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall review all recorded opacity CEM data daily. The Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an opacity 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 ten days after such deviation commenced. [P-015-0097, P-015-0098, P-015-0099]
- iv. The Permittee shall report all opacity CEM data, to the Commissioner on a quarterly basis using a six-minute block average. [P-015-0097, P-015-0098, P-015-0099]
- v. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. Each quarterly report shall include the applicable information, as set forth in RCSA §§22a-174-38(l)(2) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(2) and (7) through (9)]
- vi. 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 applicable information, as set forth in RCSA §22a-174-38(l)(3) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(l)(8) and (9). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(3) and (7) through (9)]

Section III: Applicable Requirements and Compliance Demonstration

7. SO₂, NO_x and CO

a. Limitation or Restriction

- i. The Permittee shall not emit SO₂ in excess of 29 ppmvd corrected to 7% O₂ (dry basis) based on a 24-hour daily geometric average or a 75% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1), (6) and (11)]
- ii. The SO₂ emissions from each MWC shall also not exceed 104.0 lb/hr, 0.32 lb/MMBtu based on a 24 hour daily geometric mean and 455.6 tpy. [P-015-0097, P-015-0098, P-015-0099]
- iii. Continuous compliance with the sulfur dioxide limit listed in Section III.A.7.a.i. of this Title V permit shall be based on a 24-hour geometric average of the hourly arithmetic average emission concentrations using CEM system outlet data if compliance is based on an emission concentration or CEM system inlet and outlet data if compliance is based on a percent reduction.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(4)]
- iv. The Permittee shall not emit NO_x in excess of 150 ppmvd corrected to 7% O₂ (dry basis) based on a 24-hour daily arithmetic average. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(8) and (11)]
- v. Continuous compliance with the nitrogen oxides emission limit shall be based on a 24-hour daily average. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(9)]
- vi. The NO_x emissions from each MWC shall not exceed 114.4 lb/hr, 0.352 lb/MMBtu based on a 24-hour daily arithmetic average and 501.1 tpy. [P-015-0097, P-015-0098, P-015-0099]
- vii. The Permittee shall not emit CO in excess of 100 ppmvd corrected to 7% O₂ (dry basis) based on a 4-hour block arithmetic average. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(10) and (11)]
- viii. Continuous compliance with the carbon monoxide emission limit shall be based on a 4-hour block average. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(10)]
- ix. The CO emissions from each MWC shall not exceed 34.1 lb/hr, 0.105 lb/MMBtu based on a 4-hour block average and 149.5 tpy. [P-015-0097, P-015-0098, P-015-0099]
- x. Shutdown Limit: In the event that SO₂, NO_x or CO emissions from the MWCs exceed the respective emission limits, as determined through CEM compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with the emission limits and shall report to the commissioner as required under Section III.A.7.d.ii. of this Title V permit.
[P-015 P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall install, operate, calibrate and maintain continuous emission monitoring systems for SO₂, NO_x and CO in a manner acceptable to the commissioner and certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring system have been and are being met. CEM systems shall meet the following requirements:
[P-015-0097, P-015-0098, P-015-0099]
 - (A) SO₂ monitors shall: (1) Meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance Specification 2; 40 CFR 60, Appendix F, Procedure 1; and 40 CFR 60.13, and (2) For units that have actual inlet emissions less than 100 ppmvd, the relative accuracy criterion for inlet sulfur dioxide CEM systems should be no greater than twenty percent (20%) of the mean value of the reference method test data in terms of the

Section III: Applicable Requirements and Compliance Demonstration

- units of the emission standard, or five ppmvd absolute value of the mean difference between the reference method and the continuous emission monitoring systems, whichever is greater. [RCSA §22a-174-38(j)(1)(C)]
- (B) NO_x monitors shall meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance Specification 2; 40 CFR 60, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(D)]
- (C) CO monitors shall: (1) Meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance Specification 4 or 4A (as applicable); 40 CFR 60, Appendix F, Procedure 1 and 40 CFR 60.13, and (2) Calculate the relative accuracy criterion of five ppmvd as the absolute value of the mean difference between the reference method and the CEM system, to demonstrate compliance with the 100 ppmvd carbon monoxide standard. [RCSA §22a-174-38(j)(1)(E)]
- ii. For an emission limit measured as a percent reduction, compliance shall be determined by measuring the concentration of SO₂ 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 air pollutant 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 one-hundred (100). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(7)]
- iii. During a loss of boiler water level control or a loss of combustion air control malfunction period, a diluent cap of fourteen percent for oxygen may be used in the emissions calculations for sulfur dioxide and nitrogen oxides. [RCSA §22a-174-38(j)(3)]
- iv. For determining compliance with the carbon monoxide 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 fifteen (15) hours per occurrence. Otherwise, the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(11)(A)]
- v. The Permittee shall comply with the following minimum data requirements:
- (A) Data available for SO₂, NO_x and CO CEMs shall not be less than ninety percent (90%) of the total operating hours in any one calendar quarter and not less than ninety-five percent (95%) of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]
- (B) Obtain valid 1-hour averages for seventy-five percent (75%) of the operating hours per day for ninety percent (90%) of the operating days per calendar quarter during which the unit combusts any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
- (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average; and [RCSA §22a-174-38(j)(2)(D)]
- (D) The percentage of data available shall be calculated as follows:
[RCSA §22a-174-38(j)(2)(F)]
- (1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and
- (2) Using all data obtained from the SO₂, NO_x and CO CEMs to calculate emissions 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:
- (A) All one-hour average sulfur dioxide emission concentrations;

Section III: Applicable Requirements and Compliance Demonstration

- [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(3)(B)]
- (B) All one-hour average sulfur dioxide reduction efficiency levels;
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(3)(C)]
 - (C) All one-hour average nitrogen oxide emission concentrations; and
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(3)(D)]
 - (D) All one-hour average carbon monoxide emission concentrations.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(3)(E)]
- ii. The Permittee shall also make and keep records of:
- (A) All 24-hour daily geometric average sulfur dioxide emission concentrations and all 24-hour daily geometric average percent reductions in sulfur dioxide emissions;
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(4)(A)]
 - (B) All 24-hour daily average nitrogen oxide emission concentrations; and
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(4)(B)]
 - (C) All 4-hour block average carbon monoxide emission concentrations.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(4)(C)]
- iii. The Permittee shall make and maintain records of the calendar dates when any of the average emission concentrations or percent reductions listed under Sections III.A.7.c.i. and ii. of this Title V permit are above the applicable limits. These records shall include the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(5)]
- iv. The Permittee shall make and maintain records of the calendar dates for which the minimum number of hours of any data required by RCSA §22a-174-38 have not been obtained, the reason 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 all instances where SO₂, NO_x and CO emissions data have been excluded from the calculation of average SO₂, NO_x and CO emission concentrations, respectively, and the reason for such exclusions. [RCSA §22a-174-38(k)(7)]
- vi. The Permittee shall make and keep records of the results of daily calibrations and quarterly accuracy determinations for the sulfur dioxide, nitrogen oxides and carbon monoxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]
- vii. The Permittee shall label each record listed in Sections III.A.7.c.i. through vi of this Title V permit with the time and calendar date on which the data was generated. [RCSA §22a-174-38(k)(1)]
- viii. The Permittee shall calculate and record the monthly and consecutive 12-month SO₂, NO_x and CO emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month
[P-015-0097, P-015-0098, P-015-0099]
- d. *Reporting Requirements*
- i. The Permittee shall provide the records specified in Section III.A.7.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
 - ii. The Permittee shall review all recorded SO₂, NO_x and CO CEM data daily. 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

Section III: Applicable Requirements and Compliance Demonstration

and measures no later than ten days after such deviation commenced.

[P-015-0097, P-015-0098, P-015-0099]

- iii. The Permittee shall report all SO₂, NO_x and CO CEM data to the commissioner on a quarterly basis using a one-hour block average. [P-015-0097, P-015-0098, P-015-0099]
- iv. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. Each quarterly report shall include the applicable information, as set forth in RCSA §§22a-174-38(1)(2) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(1)(8) and (9).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(2) and (7) through (9)]
- v. 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 applicable information, as set forth in RCSA §§22a-174-38(1)(3) and (7), the calendar year emissions for SO₂, NO_x and CO in units of tons per year for each MWC, and shall be submitted in the manner specified in RCSA §§22a-174-38(1)(8) and (9).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(3) and (7) through (9)]

8. Oxygen

a. Monitoring Requirements

- i. The Permittee shall install, operate, calibrate and maintain continuous monitoring system for measuring the oxygen content of the flue gas at each location where CO, SO₂ or NO_x emissions are monitored. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(j)(1)]
- ii. O₂ monitors shall meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance Specification 3; 40 CFR 60, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(B)]
- iii. The Permittee shall comply with the following minimum data requirements:
 - (A) Data available for the O₂ CEMs shall not be less than ninety percent (90%) of the total operating hours in any one calendar quarter and not less than ninety-five percent (95%) of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]
 - (B) Obtain valid 1-hour averages for seventy-five percent (75%) of the operating hours per day for ninety percent (90%) of the operating days per calendar quarter during which the unit combusts any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average; and [RCSA §22a-174-38(j)(2)(D)]
 - (D) The percentage of data available shall be calculated as follows:
[RCSA §22a-174-38(j)(2)(F)]
 - (1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and
 - (2) Using all data obtained from the O₂ CEMs to calculate emissions 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.

b. Record Keeping Requirements

- i. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the O₂ CEMs. [RCSA §22a-174-38(k)(8)]
- ii. The Permittee shall label each record with the time and calendar date on which the data was generated and all records 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

c. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.8.b of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall report all O₂ CEMs data to the commissioner on a quarterly basis using a one-hour average. [P-015-0097, P-015-0098, P-015-0099]

9. VOC and Sulfuric Acid

a. Limitation or Restriction

- i. VOC, as defined by RCSA §22a-174-1 and reported as methane (CH₄) in the stack exhaust, shall be limited to a maximum concentration of 70 ppmvd @ 12% CO₂ for each MWC. [P-015-0097, P-015-0098, P-015-0099]
- ii. The VOC emissions from each MWC shall also not exceed 14.9 lb/hr, 0.046 lb/MMBtu and 65.3 tpy. [P-015-0097, P-015-0098, P-015-0099]
- iii. The sulfuric acid emissions from each MWC shall not exceed 15.275 lb/hr, 0.047 lb/MMBtu and 69.9 tpy. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall demonstrate compliance with the above emission limits by calculating the emission rates from the initial VOC and sulfuric acid stack test results. [P-015-0097, P-015-0098, P-015-0099]
- ii. The commissioner may require the Permittee to conduct additional performance tests if any pollutant emission rate is identified as not being in compliance with any permit condition. [P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all required performance tests. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month VOC and sulfuric acid emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.9.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit reports to the commissioner of all required performance tests. [P-015-0097, P-015-0098, P-015-0099]

10. Cadmium and Lead

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emissions of cadmium in excess of 0.035 milligrams per dry standard cubic meter of exhaust gas corrected to seven percent oxygen. This emission limit shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1) and (11)]
- ii. The Permittee shall not cause or allow emission of lead in excess of 0.400 milligrams per dry

Section III: Applicable Requirements and Compliance Demonstration

- standard cubic meter of exhaust gas corrected to seven percent oxygen. This emission limit shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1) and (11)]
- iii. The lead emissions from each MWC shall not exceed 0.13 lb/hr, 0.0004 lb/MMBtu and 0.56 TPY. [P-015-0097, P-015-0098, P-015-0099]
 - iv. In the event that cadmium or lead emissions from the MWCs exceed the respective emission limits, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with the applicable emission limits and shall report to the commissioner as required under Section III.A.10.d.iii. of this Title V permit. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall demonstrate compliance with the above emission limits by calculating the emission rates from the annual cadmium and lead stack test results. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall conduct an annual performance test for cadmium and lead, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine calendar months and no more than fifteen (15) calendar months following the previous performance test for such pollutant. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(2)]
- iii. The cadmium and lead performance tests shall be carried out with the MWCs operating at approximately 100% of the maximum unit load (i.e., maximum rated capacity), and as set forth in RCSA §22a-174-38(i). [P-015-0097, P-015-0098, P-015-0099]
- iv. Testing for cadmium and lead shall be conducted in accordance with the following procedures: [P-015-0097, P-015-0098, P-015-0099, 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 cadmium and lead emission limits;
 - (D) An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 29 test run for cadmium and lead 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 cadmium and 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 keep records of 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 cadmium and lead. The Permittee shall label each record with the time and calendar date on which the data was generated. The relationship between carbon dioxide and oxygen concentrations shall be recorded if the relationship is reestablished during the annual performance test. [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(1) and (10)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month lead emissions in units of tons. The consecutive 12-month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the

Section III: Applicable Requirements and Compliance Demonstration

end of the previous month [P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.10.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a performance test plan for review and written approval of the commissioner, at least ninety (90) days before a required performance test is conducted. At a minimum, such plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. The Permittee shall also provide written notification to the commissioner three business days prior to conducting a performance test.
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(4) and (5)]
- 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 the information as set forth in RCSA §22a-174-38(1)(3) and the calendar year emissions for lead in units of tons per year for each MWC.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(1)(3)]
- iv. The Permittee shall provide written notification to the commissioner within seventy-two (72) hours of the time at which the Permittee receives information regarding performance test results indicating that any cadmium or lead emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [P-015-0097, P-015-0098, P-015-0099]
- v. The Permittee shall submit all reports and notifications required by RCSA §22a-174-38(1) on forms furnished or prescribed by the commissioner and in the manner specified in RCSA §22a-174-38(1)(9). These reports shall include a certification signed in accordance with RCSA §22a-174-2a(a)(4). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(1)(7) through (9)]

11. Mercury, Hydrogen Chloride (HCl), Dioxin/Furan

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of mercury in excess of 0.028 milligrams per dry standard cubic meter of exhaust gas corrected to seven percent oxygen, or achieve 85% reduction by weight measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1) and (11)]
- ii. The Permittee shall not cause or allow emission of hydrogen chloride in excess of 29 ppmvd corrected to seven percent oxygen, or achieve 95% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11).
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1) and (11)]
- iii. The hydrogen chloride emissions from each MWC shall not exceed 12.675 lb/hr and 55.5 tpy.
[P-015-0097, P-015-0098, P-015-0099]
- iv. The Permittee shall not cause or allow emission of dioxins and furans in excess of 30 nanograms per dry standard cubic meter of exhaust gas total mass (tetra-chlorinated dibenzo-p-dioxins and dibenzofurans through octa-chlorinated dibenzo-p-dioxins and dibenzofurans) corrected to seven percent oxygen. The emission limits set forth in RCSA §22a-174-38(c) shall apply at all times except during periods of startup, shutdown, or malfunction as set forth in RCSA §22a-174-38(c)(11). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(c)(1) and (11)]

Section III: Applicable Requirements and Compliance Demonstration

- v. In the event that mercury, hydrogen chloride or dioxin/furan emissions from the MWCs exceed the respective emission limits, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with the applicable emission limits and shall report to the commissioner as required under Section III.A.11.d.iii. of this Title V permit. [P-015-0097, P-015-0098, P-015-0099]

b. *Monitoring Requirements*

- i. The Permittee shall demonstrate compliance with the above emission limits by calculating the emission rates from the annual mercury, hydrogen chloride and dioxin/furan stack test results. [P-015-0097, P-015-0098, P-015-0099]
- ii. For an emission limit measured as a percent reduction, compliance shall be determined by measuring the concentration of mercury and/or hydrogen chloride 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 air pollutant 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. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(c)(7)]
- iii. The Permittee shall conduct annual performance tests for mercury, hydrogen chloride and dioxin/furan, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine calendar months and no more than fifteen (15) calendar months following the previous test. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(2)]
- iv. The mercury, hydrogen chloride and dioxin/furan performance tests shall be carried out with the MWCs operating at approximately 100% of the maximum unit load (i.e., maximum rated capacity), and as set forth in RCSA §22a-174-38(i). [P-015-0097, P-015-0098, P-015-0099]
- v. Notwithstanding Section III.A.11.b.iii. of this Title V permit, upon demonstration for two consecutive years that the dioxin/furan emission levels from all units at a MWC plant for which construction commenced prior to September 20, 1994 are less than 15 ng/dscm total mass or, for all units for which construction, modification or reconstruction commenced on or after September 20, 1994, and are less than seven ng/dscm total mass, the Permittee shall only be required to conduct performance testing for dioxin/furan on one unit at that MWC plant. The Permittee shall rotate performance testing among units no more than 12 months following the previous performance test in a fixed sequence so that each unit is tested at the same frequency. If in any year following the year of election of such reduced testing, the dioxin/furan emission test result indicate a level equal to or greater than 15 ng/dscm total mass for any unit for which construction commenced prior to September 20, 1994, then the Permittee shall resume testing of all units at the MWC plant 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), at which time the Permittee may resume testing in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(3)]
- vi. Testing for mercury shall be conducted in accordance with the following procedures: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(4)(C)]
 - (A) 40 CFR 60, Appendix A, Reference Method 1, shall be used to determine the location and number of sampling points;
 - (B) 40 CFR 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
 - (C) 40 CFR 60, Appendix A, Reference Method 29 shall be used to determine compliance with the mercury emission limits. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 26 test run for mercury;

Section III: Applicable Requirements and Compliance Demonstration

- (D) The minimum sample time shall be two (2) hour per each Method 29 test run;
- (E) The percent reduction in potential mercury emissions (% P_{Hg}) shall be computed using the following equation:

$$(\% P_{Hg}) = ((Ei - Eo) / Ei) \times 100$$

where:

%P_{Hg} = percent reduction of the potential mercury emissions achieved.

Ei = potential mercury emission concentration measured at the control device inlet, corrected to 7 % O₂ (dry basis).

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

- (F) The compliance determinations for mercury shall be based an arithmetic average of emission concentrations or percent reductions determined using all data generated in a minimum of at least three test runs.
- vii. Testing for hydrogen chloride shall be conducted in accordance with the following procedures [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(4)(G)]:
- (A) 40 CFR 60, Appendix A, Reference Method 26 or 26A, as applicable, shall be used to determine the hydrogen chloride emission concentration. The minimum sampling time for Method 26 shall be one (1) hour;
 - (B) An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 26 test run for hydrogen chloride;
 - (C) The percent reduction in potential hydrogen chloride emissions (% P_{HCl}) shall be computed using the following equation:
$$(\% P_{HCl}) = ((Ei - Eo) / Ei) \times 100$$

where:

%P_{HCl} = percent reduction of the potential hydrogen chloride emissions achieved.

Ei = potential hydrogen chloride emission concentration measured at the control device inlet, corrected to 7 % O₂ (dry basis).

Eo = controlled hydrogen chloride emission concentration measured at the control device outlet, corrected to 7 % O₂ (dry basis); and
 - (D) The compliance determination for hydrogen chloride shall be based on an arithmetic average of emission concentrations or percent reductions determined using all data generated in three (3) test runs.
- viii. Testing for dioxin/furans shall be conducted in accordance with the following procedures: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(i)(4)(H)]
- (A) 40 CFR 60, Appendix A, Reference Method 1, shall be used to determine the location and number of sampling points;
 - (B) 40 CFR 60, Appendix A, Reference Method 3 shall be used for flue gas analysis;
 - (C) 40 CFR 60, Appendix A, Reference Method 23 shall be used to determine the dioxin/furan emission concentration;
 - (D) The minimum sample time shall be four (4) hours per test run;
 - (E) An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 23 test run for dioxin/furans; and
 - (F) The compliance determination for dioxin/furans shall be based on an arithmetic average determined using all data generated in three (3) test runs.

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep records of 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 mercury, hydrogen chloride and dioxin/furan. The maximum demonstrated MWC unit load and maximum demonstrated particulate matter control device temperature (for each particulate matter control device) shall be recorded for each performance test for dioxin/furan emissions. The Permittee shall label each record with the time and calendar date on which the data was generated. The relationship between carbon dioxide and oxygen concentrations shall be recorded if the relationship is reestablished during the annual performance test. [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(1) and (10)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month HCl emissions in units of tons. The consecutive 12-month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.11.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a performance test plan for review and written approval of the commissioner, at least ninety (90) days before a required performance test is conducted. At a minimum, such plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. The Permittee shall also provide written notification to the commissioner three business days prior to conducting a performance test.
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(l)(4) and (5)]
- 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 the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for hydrogen chloride in units of tons per year for each MWC.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(l)(3)]
- iv. The Permittee shall provide written notification to the commissioner within seventy-two (72) hours of the time at which the Permittee receives information regarding performance test results indicating that any mercury, hydrogen chloride or dioxin/furan emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38.
[P-015-0097, P-015-0098, P-015-0099]
- v. The Permittee shall submit all reports and notifications required by RCSA §22a-174-38(l) on forms furnished or prescribed by the commissioner and in the manner specified in RCSA §22a-174-38(l)(9). These reports shall include a certification signed in accordance with RCSA §22a-174-2a(a)(4). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(l)(7) through (9)]

12. Ammonia

a. Limitation or Restriction

- i. The Permittee shall not emit ammonia (due to ammonia slip) from each MWC in excess of 18 ppmvd corrected to seven percent oxygen (dry basis). [P-015-0097, P-015-0098, P-015-0099]
- ii. The ammonia emissions from each MWC shall also not exceed 3.717 lb/hr and 16.3 tpy.
[P-015-0097, P-015-0098, P-015-0099]

Section III: Applicable Requirements and Compliance Demonstration

- iii. In the event that ammonia emissions from the MWCs exceed the respective emission limits, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with the applicable emission limits and shall report to the commissioner as required under Section III.A.12.d.iv. of this Title V permit. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall demonstrate compliance with the above emission limits by calculating the emission rates from the annual ammonia stack test results. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall conduct annual performance tests for ammonia, for each MWC, using Modified EPA Method 26A and with the MWCs operating at approximately 100% of the maximum unit load (i.e., maximum rated capacity). [P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the ammonia emission limits. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month ammonia emissions in units of tons. The consecutive 12-month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.12.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a performance test plan for review and written approval of the commissioner, at least ninety (90) days before a required performance test is conducted. The Permittee shall also provide written notification to the commissioner three business days prior to conducting a performance test. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall submit reports to the commissioner of all required performance tests. [P-015-0097, P-015-0098, P-015-0099]

13. Operator Training and Certification

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the plant to be operated at any time unless a certified chief operator or shift operator is physically present at the plant. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(h)(1)]
- ii. Operators shall be certified by the commissioner under RCSA §22a-231-1. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(h)(2)]
- 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. The equipment operators shall be trained in the operation and maintenance of both the fuel burning and pollution control equipment. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(h)(3)]

b. Monitoring Requirements

Record keeping specified in Section III.A.13.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

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. [P-015-0097, P-015-0098, 015-0099]
- ii. Operator training and certification records shall be maintained on an annual basis, as follows: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(2)]
 - (A) The names of the chief operators and shift operators, certified by the commissioner, and employed at the plant, 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 plant who have completed a training program as required under RCSA §22a-174-38(h)(5).

c. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.13.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]

14. MWC O&M Manual

a. Limitation or Restriction

- i. The Permittee shall have a site-specific Municipal Waste Combustor Operating & Maintenance Manual with an index. Such Municipal Waste Combustor Operating & Maintenance Manual shall be updated on an annual basis. The Municipal Waste Combustor Operating & Maintenance Manual shall include: [P-015-0097, P-015-0098, P-015-0099, 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 an municipal waste combustor unit;
 - (C) Procedures for receiving, handling, and feeding municipal solid waste;
 - (D) Procedures for startup, 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;
 - (I) Procedures for handling ash;
 - (J) Procedures for monitoring emissions; and
 - (K) Procedures for reporting and record keeping.
- ii. Any revision to the MWC O&M manual which conflicts or may conflict with any condition of this Title V permit shall be reviewed by the commissioner and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall establish a training program to review the Municipal Waste Combustor Operating & Maintenance Manual with each person who has responsibilities affecting the operation of a MWC plant including, but not limited to, the chief operator, shift operator, ash handler, maintenance employee, and crane/load handler. The Permittee shall train new employees prior to

Section III: Applicable Requirements and Compliance Demonstration

each new employee's assumption of any responsibilities at the MWC plant. Following initial training, the training program shall be repeated on an annual basis for each person identified above. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(h)(5)]

- iv. The Operating & Maintenance Manual shall be kept 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 Requirements

Record keeping specified in Section III.A.14.c of this Title V permit shall be sufficient to meet other Monitoring 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 & Maintenance Manual, the date of initial review and the date of the annual review. [P-015-0097, P-015-0098, P-015-0099, RCSA 22a-174-38(h)(5)]
- ii. The Permittee shall maintain records of the information specified in RCSA §§22a-174-38(k)(2)(A) through (C), as applicable, labeling each record with the calendar date on which the data was generated. [RCSA §22a-174-38(k)(1)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.14.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit any revision to this manual which conflicts or may conflict with any condition of this permit to the commissioner for review and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [P-015-0097, P-015-0098, P-015-0099]

15. Carbon Injection System

a. Limitation or Restriction

- i. During the operation of each MWC, the carbon injection system operating parameter(s) that is the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall be averaged over a block 8-hour period, and the 8-hour block average shall equal or exceed the level(s) documented during the performance tests specified under RCSA §22a-174-38(i). [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(g)(5)]

b. Monitoring Requirements

- i. The Permittee shall install, operate, calibrate and maintain a continuous monitoring system for measuring the carbon feed rate. [P-015-0097, P-015-0098, P-015-0099]
- ii. When using Activated Carbon to control mercury and/or dioxin/furans emissions, the activated carbon CEM shall meet the following requirements:
 - (A) Meet the requirements of 40 CFR 60.1820; and [RCSA §22a-174-38(j)(1)(G)(i)]
 - (B) Pneumatic injection pressure or another carbon injection system operational indicator shall be used to provide additional verification of proper carbon injection system operation. The operational indicator shall provide an instantaneous visual or audible alarm to alert the operator of a potential interruption in the carbon feed that would not normally be indicated by direct monitoring of carbon mass feed rate (e.g. continuous weight loss feeder) or monitoring of the carbon system operating parameter or parameters that are the indicator or indicators of the carbon mass feed rate (e.g. screw feeder speed). The carbon injection system operational

Section III: Applicable Requirements and Compliance Demonstration

indicator used to provide additional verification of carbon injection system operation, including basis for selecting the indicator and operator response to the indicator alarm, shall be included in the site-specific Municipal Waste Combustor Operating & Maintenance Manual. [RCSA §22a-174-38(j)(1)(G)(ii)]

- iii. The Permittee shall comply with the following minimum data requirements:
 - (A) Data available for Activated Carbon CEMs shall not be less than ninety percent (90%) of the total operating hours in any one calendar quarter and not less than ninety-five percent (95%) of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]
 - (B) Obtain valid 1-hour averages for seventy-five percent (75%) of the operating hours per day for ninety percent (90%) of the operating days per calendar quarter during which the unit combusts any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
 - (C) At least three equally spaced data points per hour shall be used to calculate a one-hour average; and [RCSA §22a-174-38(j)(2)(D)]
 - (D) The percentage of data available shall be calculated as follows:
 - [RCSA §22a-174-38(j)(2)(F)]
 - (1) In accordance with the procedures specified on forms furnished or prescribed by the commissioner; and
 - (2) Using all data obtained from the Activated Carbon CEMs to calculate emissions 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 maintain records of the calendar dates for which the minimum number of hours of any data required by RCSA §22a-174-38 have not been obtained, the reason for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data.
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(6)]
- ii. The Permittee shall maintain the following records for the Activated Carbon Injection System:
 - (A) Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial mercury and dioxin/furan performance test and all subsequent annual performance tests, with supporting calculations;
[P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(k)(11)(A) and (B)]
 - (B) Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations;
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(11)(C)]
 - (C) For each calendar quarter, estimates of the total carbon usage for each MWC unit in kilograms or pounds for each calendar quarter by two independent methods, according to the procedures specified below:
[RCSA §22a-174-38(k)(11)(D)]
 - (1) For each MWC unit, estimate the weight of carbon delivered; and
 - (2) For each MWC unit, estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation based on the parameters specified under RCSA §22a-174-38(i)(4)(K), and sum the results for the total number of hours of operation during the calendar quarter.
 - (D) Carbon injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon feed rate (e.g., screw feeder speed); and
[P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(11)(E)]

Section III: Applicable Requirements and Compliance Demonstration

- (E) The times and calendar dates when average carbon mass feed rates were less than the hourly carbon feed rates estimated during mercury or dioxin/furan emission tests. The reasons for such feed rates and a description of corrective actions taken shall also be recorded. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(11)(F)]
- iii. The Permittee shall label each record with the time and calendar date on which the data was generated and all records shall be maintained for a period of at least five years from the date the record was created. [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(1)]
- d. *Reporting Requirements*
- i. The Permittee shall provide the records specified in Section III.A.15.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall review all recorded Activated Carbon CEM data daily. The Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from a parametric 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, no later than ten days after such deviation commenced. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which data were collected. Each quarterly report shall include the information below, and shall be submitted in the manner specified in RCSA §§22a-174-38(1)(8) and (9): [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(2)(C) and (7) through (9)]
- (A) Identification of the calendar days when average carbon feed rates were less than either of the hourly carbon feed rates estimated during mercury and/or dioxin/furan tests, and the rates recorded. The reasons for such feed rates and a description of the corrective actions taken shall also be reported;
- (B) The total carbon purchased for and delivered to the MWC plant or purchased for and delivered to each MWC unit for the reported calendar quarter;
- (C) The required usage of carbon for the reported calendar quarter for the MWC plant or for each MWC unit at the plant, calculated using equation 4 or 5 of 40 CFR 60.1935(f); and
- (D) A certification signed in accordance with section RCSA §22a-174-2a(a)(4).
- iv. 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 applicable information, as set forth in RCSA §§22a-174-38(1)(3) and (7), and shall be submitted in the manner specified in RCSA §§22a-174-38(1)(8) and (9). [P-015-0097, P-015-0098, P-015-0099, RCSA §§22a-174-38(1)(3) and (7) through (9)]

16. Work Practice Standards and Operation and Maintenance Practices

- a. *Limitation or Restriction*
- i. The minimum number of compartments of the fabric filter to be in service when the units are operating is eight. [P-015-0097, P-015-0098, P-015-0099]
- ii. Each MWC unit shall be equipped with automatic controls for the regulation of combustion; e.g., air distribution and combustion gas temperature controls. [P-015-0097, P-015-0098, P-015-0099]
- iii. The Permittee shall ensure that overfire and underfire air is maintained to obtain optimum combustion. [P-015-0097, P-015-0098, P-015-0099]
- iv. The Permittee shall install and use dedicated CEM analyzers. Each furnace flue exhaust shall have its own set of CEM analyzers and there shall be no shared analyzers. [P-015-0097, P-015-0098, P-015-0099]

Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall properly maintain and operate all air pollution control devices at all times and in accordance with the requirements of RCSA §22a-174-7. [P-015-0097, P-015-0098, P-015-0099]
- vi. The Permittee shall only be allowed to operate the MWCs during shutdown of air pollution control equipment when there is a malfunction of such air pollution control equipment and as allowed under RCSA §22a-174-7(b). [P-015-0097, P-015-0098, P-015-0099]
- vii. In the event of the malfunction of air pollution control equipment that cannot be corrected within three hours, the Permittee shall immediately institute a furnace shutdown procedure in accordance with the O&M Plan. The period for which the facility will be allowed to operate during shutdown of the air pollution control equipment shall not exceed the burnout of the unit's charge at the time of the shutdown of the air pollution control equipment. No MSW may be charged into the hopper following a shutdown of the air pollution control equipment until after the air pollution control equipment has been put back on-line. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The Permittee shall install and use equipment to monitor and record the reagent feed rate for the spray dryer absorber and SNCR for each MWC unit. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall also continuously monitor and record total combined overfire and underfire air. [P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the dates on which any and all pollution control equipment undergoes maintenance. [RCSA §22a-174-33(j)(1)(K)]
- ii. The Permittee shall make and keep for each MWC unit, the following: [P-015-0097, P-015-0098, P-015-0099, RCSA §22a-174-38(k)(12)]
 - (A) For each reagent, the feed rate to the air pollution control device, measured in kilograms per hour or pounds per hour, during the annual particulate emissions performance tests, with supporting calculations;
 - (B) For each reagent, the feed rate to the air pollution control device, measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations; and
 - (C) For each calendar quarter, total reagent usage for each MWC unit in kilograms or pounds for each calendar quarter.
- iii. The Permittee shall label each record listed in Part III.A.16.c.ii. of this Title V permit with the time and calendar date on which the data was generated. [RCSA §22a-174-38(k)(1)]
- iv. The Permittee shall keep records of the occurrence and duration of any malfunction in the operation of each furnace/boiler and/or associated pollution control equipment. [P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.16.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]

17. Hazardous Air Pollutants

a. Limitation or Restriction

- i. The Permittee shall not cause or allow an exceedance of the Maximum Allowable Stack Concentration for any hazardous air pollutant listed in RCSA §22a-174-29. [P-015-0097, P-015-0098, P-015-0099]
- ii. In the event that any MASC exceedance occurs, the Permittee shall take corrective action to achieve the permitted emissions limit and shall report to the commissioner as required under

Section III: Applicable Requirements and Compliance Demonstration

Section III.A.17.d.ii. of this Title V permit. [P-015-0097, P-015-0098, P-015-0099]

b. Monitoring Requirements

- i. The commissioner may require the Permittee to conduct additional performance tests if any pollutant emission rate is identified as not being in compliance with any permit condition. [P-015-0097, P-015-0098, P-015-0099]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all performance tests conducted to determine compliance with any pollutant emission rate, if such tests are required by the commissioner. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall make and keep records of the ASC and MASC for the pollutants listed in RCSA 22a-174-29 and emitted by the MWCs. [P-015-0097, P-015-0098, P-015-0099]

d. Reporting Requirements

- i. The Permittee shall submit reports to the commissioner of all required performance tests. [P-015-0097, P-015-0098, P-015-0099]
- ii. The Permittee shall provide written notification to the commissioner within three working days of the time at which the Permittee receives information regarding performance test results indicating that the stack concentration levels exceed the MASC limits. [P-015-0097, P-015-0098, P-015-0099]

B. EU-7 ASH CONDITIONER/HANDLING SYSTEM (Subject to RCSA §22a-174-38)

1. Fugitive Ash Emissions

a. Limitation or Restriction

- i. The Permittee shall not cause to be discharged to the atmosphere visible emissions of combustion ash from the ash conveying system, including transfer points, in excess of five percent of the observation period (i.e., nine minutes per three-hour period), as specified in RCSA §22a-174-38(i)(4)(I). [RCSA §22a-174-38(f)(1)]
- ii. The emission limit specified in Section III.B.1.a.i. of this Title V permit does not cover visible emissions discharged inside buildings or within enclosures of ash conveying systems; however, the emission limit in Section III.B.1.a.i. of this Title V permit does cover visible emissions discharged to the atmosphere from buildings and enclosures of ash conveying systems. [RCSA §22a-174-38(f)(2)]
- iii. The provisions specified in Section III.B.1.a.i. of this Title V permit do not apply during maintenance and repair of ash conveying systems, however, all reasonable measures to control fugitive emissions on such occasions shall be implemented. [RCSA §22a-174-38(f)(3)]

b. Monitoring Requirements

- i. The Permittee shall conduct an annual performance test for fugitive ash at least once per calendar year. Such tests 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(i)(2)]
- ii. The fugitive ash performance tests shall be conducted under representative full load operating conditions. [RCSA §22a-174-38(i)(1)]
- iii. Testing for fugitive ash emissions shall be conducted in accordance with the following procedures:
 - (A) 40 CFR Part 60, Appendix A, Reference Method 22 shall be used for determining compliance with the fugitive ash emissions limit; [RCSA §22a-174-38(i)(4)(I)(i)]
 - (B) The minimum observation time shall be a series of three one-hour observations; and [RCSA §22a-174-38(i)(4)(I)(ii)]
 - (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

Section III: Applicable Requirements and Compliance Demonstration

loaded into containers or trucks. [RCSA §22a-174-38(i)(4)(I)(iii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of 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 fugitive ash. The Permittee shall label each record with the time and calendar date on which the data was generated and shall keep these records for a period of at least five years from the date the record was created. [RCSA §§22a-174-38(k)(1) and (10)]

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.B.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall submit a performance test plan for review and written approval of the commissioner, at least ninety (90) days before a required performance test is conducted. At a minimum, such plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. The Permittee shall also provide written notification to the commissioner three business days prior to conducting a performance test. [RCSA §§22a-174-38(l)(4) and (5)]
- 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 the applicable information as set forth in RCSA §22a-174-38(l)(3). [RCSA §22a-174-38(l)(3)]
- iv. The Permittee shall provide written notification to the commissioner within seventy-two (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 emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]
- v. The Permittee shall submit all reports and notifications required by RCSA §22a-174-38(l) on forms furnished or prescribed by the commissioner and in the manner specified in RCSA §22a-174-38(l)(9). These reports shall include a certification signed in accordance with RCSA §22a-174-2a(a)(4). [RCSA §22a-174-38(l)(7) through (9)]

C. GEU-2 EMERGENCY ENGINES [EU-8 AND EU-9]

(Subject to RCSA §§22a-174-3b, -22e and 40 CFR Part 63 Subpart ZZZZ)

1. NO_x

a. Limitation or Restriction

The Permittee shall not operate the engines in GEU-2 for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups" or greater. If, subsequent to the initial forecast of "moderate to unhealthy for sensitive groups" or greater, the forecast is revised to "moderate" or lower, the Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the Permittee to refrain from operation of EU's of GEU-2 on the following day. [RCSA §22a-174-22e(d)(14)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

- i. The Permittee of a stationary source subject to RCSA §22a-174-22e shall keep the following records: [RCSA §22a-174-22e(j)(2)]

Section III: Applicable Requirements and Compliance Demonstration

- (A) Daily records of operating hours, identifying the operating hours of emergency and non-emergency use;
- (B) The date and work performed for repairs, replacement of parts and other maintenance; and
- (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e.

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)]

2. 40 CFR Part 63 Subpart ZZZZ (Emergency compression ignition engine, <500 hp, constructed prior to 2006)

a. Monitoring and General Requirements

- i. The Permittee shall operate and maintain each engine in GEU-2 and after-treatment control device (if any) in accordance with the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 CFR §63.6625(e)]
- ii. The Permittee shall install a non-resettable hour meter if one is not already installed.
[40 CFR §63.6625(f)]
- iii. The Permittee shall minimize GEU-2's engines time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d of 40 CFR Part 63 Subpart ZZZZ apply.
[40 CFR §63.6625(h)]
- iv. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of 40 CFR Part 63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d of 40 CFR Part 63 Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if either engine in GEU-2 is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The analysis program must be part of the maintenance plan for GEU-2.
[40 CFR §63.6625(i)]
- v. Each engine in GEU-2 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
[40 CFR §63.6640(f)(2)(i)]
- vi. The Permittee shall change oil and filter and inspect all hoses and belts every 500 hours of

Section III: Applicable Requirements and Compliance Demonstration

operation or annually, whichever comes first. Hoses and belts shall be replaced as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c]

- vii. The Permittee shall inspect the air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c]

b. Record Keeping

- i. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for each engine in GEU-2. [40 CFR §63.6625(i)]
- ii. The Permittee shall keep records of the maintenance conducted on each engine in GEU-2 in order to demonstrate that the Permittee operated and maintained each engine in GEU-2 and after-treatment control device (if any) according to the maintenance plan. [40 CFR §63.6655(e)]
- iii. The Permittee shall keep records of the hours of operation of each engine in GEU-2 that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

c. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.C.2.b of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]
- ii. If either engine in GEU-2 is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 CFR Part 63 Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. The Permittee must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]

3. Fuel Sulfur Content

a. Limitation or Restriction

Any nongaseous fuel consumed by the emergency engines in GEU-2 shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.C.3.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 keep records to demonstrate compliance with Section III.C.3.a of this Title V permit. Any of the following are sufficient to demonstrate the sulfur content of fuel used: [RCSA §22a-174-3b(h)]
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.
- ii. The Permittee shall keep records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is

Section III: Applicable Requirements and Compliance Demonstration

sufficient to satisfy this requirement if the certification or contract identifies:

[RCSA §22a-174-19b(g)(3)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

(C) The sulfur content of the fuel purchased; and

(D) The method used to determine the sulfur content of the fuel purchased.

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.C.3.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]

4. Operational Conditions

a. Limitation or Restriction

The Permittee shall not operate any emergency engine in GEU-2 for more than 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring and Testing Requirements

The Permittee shall monitor the hours of operation of each emergency engine in GEU-2. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and maintain records of the hours of operation of each engine in GEU-2 for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.C.4.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]

D. 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.

Section III: Applicable Requirements and Compliance Demonstration

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, fugitive dust and visible emissions as set forth in RCSA §22a-174-18.
13. **Fuel Sulfur Content:** 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-21a(a)(2)(B).
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e and RCSA §22a-174-22f.
16. **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).
20. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
21. **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.
17. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
18. **Municipal Waste Combustors:** The Permittee shall comply with the standards for municipal waste combustors as set forth in RCSA §22a-174-38.
19. **Protection of Stratospheric Ozone:** The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.
20. **Support requirements:** The Permittee shall institute and comply with the following conditions at all times: [P-015-0097, P-015-0098, P-015-0099]
 - a. Sufficient wind-sheltered storage capacity for refuse, residual particulates and bottom ash on site and provision for landfill disposal of same must be provided for, maintenance of refuse collection service in affected communities in the event of strike, malfunction of air pollution control equipment, or other interruption.
 - b. Vehicular traffic areas shall be paved and adequately swept at the plant site.
 - c. Ensure that all trucks when loaded with municipal solid waste or any material likely to become airborne are covered at all times while outside the tipping building.
 - d. Transfer, storage and transportation at and from the plant site, 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.
 - e. Implement a cleanup program on the plant site whereby any refuse, MSW or other materials will be collected.
 - f. The public shall not have uncontrolled access to any portions of this premises.
21. **Enforcement Considerations:** The Permittee shall comply with the following: [P-015-0097, P-015-0098, P-015-0099]
 - a. CEM data, stack testing data and the results of any monitoring and testing of source parameters and emission rates shall, unless otherwise specified in this permit, be used to determine compliance with

Section III: Applicable Requirements and Compliance Demonstration

this permit.

- b. The Permittee shall comply with any and all applicable requirements of the Clean Air Act (CAA) as amended in 1990 as such requirements become applicable to this facility.
- c. Pursuant to RCSA §22a-6b-602, the Permittee is hereby advised of its liability for assessment of civil penalties for any violation of P-015-0097, P-015-0098, P-015-0099.
- d. Notwithstanding any other provision of P-015-0097, P-015-0098, P-015-0099, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.
- e. The Commissioner retains authority to take enforcement actions including, but not limited to, requiring shutdown of the facility if the source consistently (as determined by the Commissioner) violates any pollutant emission limit or permit condition.
- f. None of the conditions in this part shall exempt the Permittee from compliance with any other condition of this permit, with any emission limit established in this permit, or with any applicable state or federal regulation.

Section IV: Compliance Schedule

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.
- G. Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- H. Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds the sulfur content limitations as set forth in CGS §16a-21a.
- I. Reporting of emissions of greenhouse gases: In accordance with CGS §22a-200b, the Permittee shall report greenhouse gas emissions to the commissioner in a format specified by the commissioner.

Section V: State Enforceable Terms and Conditions

State Enforceable Terms and Conditions

- J.** The Permittee shall comply with the requirements for Architectural and Industrial Maintenance Coatings as set forth in RCSA §22a-174-41.
- K.** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
- L.** The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

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: Compliance Analysis and Coordination Unit, 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 submitted per the procedure required by the applicable requirement or otherwise in a computer-readable format and addressed to: Director, Enforcement and Compliance Assurance Division, U.S. EPA Region I, 5 Post Office Square, Suite 100 (Mailcode: 04-02), Boston, Massachusetts 02109-3912, Attn: Air Compliance 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:

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 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 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.

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).

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.