



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.

<b>Title V Permit Number</b>	<b>093-0020-TV</b>
<b>Client/Sequence/Town/Premises Numbers</b>	<b>2245/001/093/0014</b>
<b>Date Issued</b>	September 7, 2012
<b>Expiration Date</b>	September 7, 2017

**Corporation:**

*Wheelabrator Lisbon Inc.*

**Premises Location:**

*425 South Burnham Highway, Lisbon, CT 06380*

**Name of Responsible Official and Title:**

*John Horgan, Plant Manager*

All the following attached pages, 2 through 55, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for  
Daniel C. Esty  
Commissioner

September 7, 2012  
Date

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## **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>
°C	Degree Celsius
°F	Degree Fahrenheit
acfm	Actual cubic feet per minute
AOS	Alternative Operating Scenario
ASC	Actual Stack Concentration
Cd	Cadmium
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
CP/OP	Construction Permit/Operating Permit
DEEP	Department of Energy and Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
FLER	Full Load Emission Rate
GEU	Grouped Emissions Unit
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
hr	Hour
lb	Pound
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
MWC	Municipal Waste Combustor
MSW	Municipal Solid Waste
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
Pb	Lead
PDW	Processed Demolition Wood
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
PTE	Potential to Emit

## LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
RCSA	Regulations of Connecticut State Agencies
RICE	Reciprocating Internal Combustion Engine
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>x</sub>	Sulfur Oxides
SOS	Standard Operating Scenario
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
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 Lisbon Inc., P.O.Box 220, Taftville, CT 06380-0220  
Telephone Number: (860) 885-3512

### B. PREMISES DESCRIPTION

Wheelabrator Lisbon Inc. operates a resource recovery facility in Lisbon, Connecticut. The facility is a major source for NOx and HAPs and is located in an ozone non-attainment area defined in RCSA §22a-174-1(103). Municipal Solid Waste (MSW) and a small percentage of processed demolition wood (PDW) are combusted to produce steam, which in turn is used to produce electricity. The municipal waste combustors are subject to the New Source Performance Standard (NSPS) of 40 CFR Part 60 Subpart Ea - Standards for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994. There are no active DEEP orders.

#### **Municipal Waste Combustors:**

Two Babcock & Wilcox waterwall furnace/natural circulation boilers (EU-1 & 2) combust MSW and PDW to produce steam, which is in turn used to produce electricity. Propane is used for startup and flame stabilization. Each municipal waste combustor is equipped with a spray dryer absorber (SDA) for acid gas control, a fabric filter for particulate matter control, a selective noncatalytic reduction (SNCR) system for nitrogen oxide control and a powdered activated carbon injection system for control of mercury. Each municipal waste combustor is also equipped with continuous emission monitors to monitor opacity, SO<sub>2</sub>, NOx and CO. Permits to construct 093-0008 and 093-0009 were issued on March 19, 1993.

#### **Lime Silo and Slakers:**

A lime silo (EU-3) stores lime used in the spray dryer absorbers. It is equipped with a fabric filter for particulate matter control. The lime from the silos is slaked in two lime slakers (EU-4 & 5). Each slaker is equipped with a dust arrestor system. These units do not require a registration or permit. They are insignificant activities.

#### **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-6) where the ash is conveyed through metals removing equipment and an ash conditioning system. The exhaust from the ash handling equipment is equipped with a Thiel Air Technologies 4-stage scrubber with 99.99% control efficiency. The ash handling system was issued permit 093-0010 on October 5, 1998. The permit was revoked on October 19, 2006, because it was no longer required since uncontrolled particulate emissions from the ash handling system were determined to be insignificant. As a result, the existing scrubber is used at the Permittee's option, since it is not required.

#### **Emergency Fire Pump:**

A 235 bhp Detroit Diesel DDFP-04AT engine (EU-7) powers an emergency fire pump. The maximum firing rate is 13 gal/hr of diesel fuel or 1.78 MMBTU/hr. It is covered under RCSA §22a-174-3b. The engine is also subject to 40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, because it is a stationary RICE located at a major source of HAPs.

## **Section I: Premises Information/Description**

### **B. PREMISES DESCRIPTION cont'd**

#### **Emergency Engine:**

A Kohler 35RZ71 emergency engine (EU-12) is operated at the sanitary lift station. The maximum firing rate is 5.92 gal/hr of propane or 0.54 MMBTU/hr. This unit does not require a registration or permit. It is an insignificant activity. However, the engine is subject to 40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, because it is a stationary RICE located at a major source of HAPs.

## 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, Orders, Registrations, or Regulations into this Title V permit.

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>NSR Permit, Order, Registration Numbers or Regulation</b>
GEU1  (EU1 & 2)	2 Babcock & Wilcox waterwall furnace/natural circulation boilers  Design specifications from P 093-0008 & 093-0009: <ol style="list-style-type: none"> <li>1. Design MSW Heat Input: 121.93 MMBTU/hr</li> <li>2. Design Unit Load (Steam Production): 75,000 lb/hr</li> <li>3. Steam Temperature at Superheater Outlet (°F): 830</li> <li>4. Steam Pressure at Superheater Outlet (psig): 900</li> <li>5. Auxiliary Burner System: Number of Burners: two.</li> <li>6. Auxiliary Burner System: Burner Manufacturer/Model No: Babcock &amp; Wilcox</li> <li>7. Auxiliary Burner System: Fuel Type(s): Propane</li> <li>8. Auxiliary Burner System: Maximum Fuel Firing Rate: 177.5 gal/hr each burner</li> <li>9. Auxiliary Burner System: Maximum Gross Heat Input: 16.25 MMBTU/hr each burner</li> <li>10. Control Equipment Design Specifications:                          Fabric Filter: 4 compartments @ 5390 ft<sup>2</sup> each – a minimum of 3 compartments must be in service at all times (i.e., one compartment may be taken off-line due to malfunctions or maintenance purposes only)                          Air to Cloth Ratio: 3.87:1 @ 62,715 acfm with 3 compartments in service                          Bag Material: felt polyester                          Cleaning Method: Automatic                     </li> </ol>	Each MWC has a Spray Dryer Absorber (SDA), Fabric Filter, Selective Noncatalytic Reduction (SNCR) and a Powdered Activated Carbon Injection System	P 093-0008 P 093-0009

## Section II: Emissions Units Description

	<p>Pressure Drop Across Each Compartment: 4–12 inches H<sub>2</sub>O</p> <p>Pressure Drop Across Fabric Filter: 4–12 inches H<sub>2</sub>O</p> <p>Spray Dryer Absorber (SDA):</p> <p>Control Reagent: Lime Slurry</p> <p>Lime Usage: 200-600 lb/hr</p> <p>Water Usage: 300-1200 gal/hr</p> <p>Inlet Gas Temperature: 375-525 °F</p> <p>Pressure Drop Across Scrubber: 0.7-4.5 inches H<sub>2</sub>O</p> <p>Selective Noncatalytic Reduction (SNCR) System:</p> <p>Control Reagent: Urea Solution</p> <p>Reagent Injection Rate: 2-15 gal/hr</p> <p>Temperature Range: 1200-2000 °F</p> <p>Furnace Mixing Time: minimum 0.5 seconds</p> <p>NH<sub>3</sub>/NO<sub>x</sub> Molar Ratio: 0.49 – 0.86</p> <p>Powdered Activated Carbon Injection System:</p> <p>Control Reagent: Powdered Activated Carbon</p> <p>Activated Carbon Injection Rate: 0-25 lb/hr</p>		
EU6	Ash conditioner/handling system	None	None
EU7	Detroit Diesel DDFP-04AT diesel fired engine powering an emergency fire pump	None	RCSA §22a-174-3b; 40 CFR 63 Subpart <i>ZZZZ</i>
EU12	Kohler 35RZ71 propane fired emergency generator at sanitary lift station	None	40 CFR 63 Subpart <i>ZZZZ</i>
<b><i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this permit:</i></b>			
EU3	Lime silo	Fabric Filter	None
EU4 & 5	2 Lime slakers	None	None

## Section II: Emissions Units Description

### 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.

<b>TABLE II.B: OPERATING SCENARIO IDENTIFICATION</b>	
<b>Emissions Units</b>	<b>Description of Scenario</b>
GEU1 (EU-1 & 2)	The standard operation of the municipal waste combustors is the combustion of MSW and PDW to produce steam, which in turn is used to generate electricity.
EU-3, 4 & 5	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.
EU-6	The standard operation of the ash conditioner/handling system is to remove the ash from the combustor grates, convey the ash through metals removing equipment and an ash conditioning system, and load the ash onto trucks for removal from the facility.
EU-7	The standard operation of the Detroit Diesel DDFP-04AT diesel fired engine is to power an emergency fire pump.
EU-12	The standard operation of the Kohler 35RZ71 propane fired emergency generator is to provide power in emergency situations at the sanitary lift station.

### **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 (EU1 and EU2) (Two Babcock & Wilcox Waterwall Furnace/Natural Gas Circulation Boilers)**

##### **1. Allowable Fuels/ Materials & Maximum Charging Rate**

###### *a. Limitation or Restriction*

- i. The Permittee shall use any of the following fuels: [P 093-0008 & P 093-0009 Part I.A.1.a.]
  1. Municipal solid waste (MSW) as defined and restricted under CGS 22a-207 et seq. and any applicable Bureau of Materials Management and Compliance Assurance permit.
  2. Processed Demolition Wood (PDW) as defined and restricted under CGS 22a-208x(a)(2) and any applicable Bureau of Materials Management and Compliance Assurance permit.
  3. Special Waste, as allowed by the Permittee's Special Waste Disposal Authorization Plan or upon prior authorization by the commissioner.
- ii. The maximum allowable daily charging rate of MSW and PDW is based upon the maximum allowable heat input rate to the MWC of 121.93 MMBTU/hr in accordance with the charts in Appendix A of New Source Review permits 093-0008 & 093-0009, and the heating values of MSW and PDW. Maximum Charging Rate for each of the two MWCs is: [P 093-0008 & 093-0009 Part I.A.1.b.]
  1. MSW: 281.4 tons per day based on a design higher heating value of 5200 BTU/lb.
  2. Combination of MSW and PDW: 281.4 tons per day of a combination of MSW and PDW with up to 18 tons per day of PDW.

###### *b. Monitoring Requirements*

- i. The Permittee shall determine the monthly quantity of MSW and PDW for the facility by summing the truck scale house weight data for the month minus the refuse pit inventory measured on the Sunday nearest to the end of the month and pro-rated for the full month. [P 093-0008 & P 093-0009 Part IV.A.1]
- ii. The Permittee shall determine the quantity of Special Waste received by the facility in accordance with the special waste permit. [P 093-0008 & P 093-0009 Part IV.A.2]

###### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records summarizing the monthly and consecutive 12 month quantity of MSW, PDW and Special Waste combusted for the facility. The consecutive 12 month quantity of MSW, PDW and Special Waste combusted shall be determined by adding the current month's MSW, PDW 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 093-0008 & P 093-0009 Part IV.B.1]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *d. Reporting Requirements*

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. The annual report shall include the information as set forth in RCSA §22a-174-38(1)(3) and the monthly and consecutive 12 month quantity of MSW, PDW and Special Waste combusted for the facility. [P 093-0008 & P 093-0009 Part IV.C.3.]

### **2. Propane Usage**

#### *a. Limitation or Restriction*

- i. Maximum Fuel Consumption over any consecutive 12 month period for each of the two MWCs: 1,009,574 gallons of Propane. [P 093-0008 & P 093-0009 Part I.A.2.a]

#### *b. Monitoring Requirements*

- i. The Permittee shall use either fuel purchase receipts or a non-resettable totalizing fuel meter to continuously monitor propane combusted by the auxiliary burner system. [P 093-0008 & P 093-0009 Part IV.A.3]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of monthly and consecutive 12 month amount of propane combusted by the auxiliary burner system. The consecutive 12 month amount of propane combusted shall be determined by adding the current month's propane combusted to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of each month. [P 093-0008 & P 093-0009 Part IV.B.2.]

#### *d. Reporting Requirements*

- i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. The annual report shall include the information as set forth in RCSA §22a-174-38(1)(3) and the monthly and consecutive 12 month amount of propane combusted by the auxiliary burner system for each MWC. [P 093-0008 & P 093-0009 Part IV.C.3.]

### **3. Unit Load**

#### *a. Limitation or Restriction*

- i. The MWC maximum unit load (steam production), for each of the two MWCs, shall not exceed 75,000 pounds per hour, based on a 4-hour block average. [P 093-0008 & P 093-0009 Part I.A.1.c]
- ii. The Permittee shall not cause or allow such unit to operate at a MWC unit load greater than one hundred ten percent (110%) of the maximum demonstrated 4-hour average MWC unit load, based on a 4-hour block average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. MWC unit load shall be measured by a steam flow meter. [RCSA §22a-174-38(g)(2)]

### **Section III. Applicable Requirements and Compliance Demonstration**

- iii. The Permittee may, notwithstanding subdivisions (1) and (2) of RCSA §22a-174-38(g), during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow MWC unit load limits in excess of that specified in subdivision (2) of RCSA §22a-174-38(g). However, should the Permittee operate the unit at such excess load, the Permittee shall not again be allowed to operate at such excess load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]

#### *b. Monitoring Requirements*

- i. The Permittee shall install, operate, calibrate and maintain a steam flow meter to continuously monitor and record the MWC unit load (steam production). Averaging time is a 4-hour block average. The steam flow meter shall meet the requirements of 40 CFR 60.1810(a).[P 093-0008 & P 093-0009 Part III.B; RCSA §22a-174-38(j)(1)(F)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the 4-hour block average MWC unit loads. Records shall also include the calendar dates when the 4-hour block average unit load 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)(4)(D) & RCSA §22a-174-38(k) (5)]
- ii. 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)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide all records required in Section III.A.3.c of this Title V permit to the commissioner within thirty (30) days of receipt of a written request from the commissioner. [RCSA §22a-174-4(d)(1)]

### **4. Inlet Gas Temperature of Fabric Filter**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow such unit to operate at a temperature, measured at each particulate control device inlet more than 17 degrees centigrade, based on a 4-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 093-0008 & P 093-0009 Part I.A.1.d; RCSA §22a-174-38(g)(1)]
- ii. The Permittee may, notwithstanding subdivisions (1) and (2) of this RCSA §22a-174-38(g) during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow temperatures in excess of that specified in subdivision (1) of RCSA §22a-174-38(g). 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. [P 093-0008 & P 093-0009 Part I.A.1.d; RCSA §22a-174-38(g)(3)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *b. Monitoring Requirements*

- i. The Permittee shall install, operate, calibrate and maintain a continuous monitoring system to continuously monitor and record the fabric filter inlet temperature. Averaging time is a 4-hour block average. [P 093-0008 & P 093-0009 Part III.C; RCSA §22a-174-38(j)(1)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the 4-hour block average fabric filter inlet temperature. Records shall also include the calendar dates when the 4-hour block average fabric filter inlet temperature 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)(4)(D) & RCSA §22a-174-38(k) (5)]
- ii. The Permittee shall identify any exclusion of operational data for the fabric filter inlet gas temperature from the calculation of average CO emission concentration and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide all records required in Section III.A.4.c of this Title V permit to the commissioner within thirty (30) days of receipt of a written request from the commissioner. [RCSA §22a-174-4(d)(1)]

### **5. Particulate Matter**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of particulate matter in excess of 23 milligrams per dry standard cubic meter of exhaust gas corrected to seven percent oxygen, for each MWC. 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 093-0008 & P 093-0009 Part VI.A.1.]
- ii. The emissions of particulate matter from each MWC shall not exceed 11.0 tons per calendar year. [P 093-0008 & P 093-0009 Part VI.A.2.]
- iii. In the event that the PM emission rate exceeds 43.5 milligrams per dry standard cubic meter of exhaust gas corrected to seven percent oxygen, as determined through stack testing compliance data, and the cause cannot be corrected within 24 hours, the Permittee shall immediately institute a furnace shutdown procedure in accordance with the approved O&M Manual (incorporated by reference into P 093-0008 & P 093-0009). 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 PM emission limit. The commissioner shall determine the need and scope of further testing to the extent necessary to document compliance, and the Permittee shall conduct such testing as the commissioner determines is necessary to document compliance. [P 093-0008 & P 093-0009 Part VI.A.3.]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *b. Monitoring and Testing Requirements*

- i. 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, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. [RCSA §22a-174-38(1)(4)]
- 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 (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part VI.A.1; RCSA §22a-174-38(i)(2)]
- iii. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.A.1; RCSA §22a-174-38(i)(1)]
- iv. Testing for particulate matter shall be conducted in accordance with the following procedures:
  1. 40 CFR 60, appendix A, Reference Method 1 shall be used to select the sampling site and number the traverse points;
  2. 40 CFR 60, appendix A, Reference method 3 shall be used for flue gas analysis;
  3. 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 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 (2) hours;
  4. The compliance determination for particulate matter shall be based on an arithmetic average determined using all data generated in three (3) test runs. [RCSA §22a-174-38(i)(4)(A)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for particulate matter. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall calculate and record calendar year PM emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(1)(5)]

### Section III. Applicable Requirements and Compliance Demonstration

- 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 particulate matter emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]
- 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. The 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/year for each MWC.

[P 093-0008 & P 093-0009 Part IV.C.3.]

#### 6. Opacity

##### a. Limitation or Restriction

- i. Visible emissions, based on a six-minute arithmetic average, shall not exceed 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 093-0008 & P 093-0009 Part VI.B.]

##### b. Monitoring Requirements

- i. The Permittee shall install, operate, calibrate and maintain a continuous emission monitoring system for opacity and shall certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring system 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. [RCSA §22a-174-38(j)(1)(A)]
- ii. The Permittee shall comply with the following minimum data requirements:
  - 1. Data available for the 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)]
  - 2. 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 units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
  - 3. At least three equally spaced data points per hour shall be used to calculate a one-hour average; [RCSA §22a-174-38(j)(2)(D)]
  - 4. The percentage of data available shall be calculated as follows:
    - (A) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and
    - (B) 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.

[RCSA §22a-174-38(j)(2)(F)]

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#### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the six-minute arithmetic average opacity levels. Records shall also include the calendar dates when the six-minute arithmetic average 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)(3)(A) & RCSA §22a-174-38(k) (5)]
- ii. The Permittee shall make and maintain records of the calendar dates for which the minimum number of hours of any data required Section III.A.6.b 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)]
- iii. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the opacity CEMs. [RCSA §22a-174-38(k)(8)]
- iv. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall report the six-minute arithmetic average for opacity, to the commissioner, on a quarterly basis. [P 093-0008 & P 093-0009 Part III.K]
- ii. The Permittee shall submit a quarterly report to the commissioner within thirty (30) days following the end of each calendar quarter. The report shall include all opacity data recorded during the calendar quarter, each calendar date during the calendar quarter when opacity levels exceeded the applicable limit, reasons for the exceedance and corrective actions taken. The report shall also include data and results of any CEM quality assurance testing during the reported quarter. [P 093-0008 & P 093-0009 Part III.K; RCSA §22a-174-38(1)(2)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(1)(3). [P 093-0008 & P 093-0009 Part IV.C.3.]

## **7. SO<sub>2</sub>**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of sulfur dioxide in excess of 29 ppmvd corrected to seven percent oxygen; or, shall achieve 80% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent, not to exceed 66 ppmvd 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 093-0008 & P 093-0009 Part VI.C.1.]
- ii. The Permittee shall not cause or allow emission of sulfur dioxide in excess of 50 ppmvd corrected to seven percent oxygen, or shall achieve 65% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent, not to exceed 115 ppmvd corrected to seven percent oxygen, based on a 3-hour rolling average. [P 093-0008 & P 093-0009 Part VI.C.2.]

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- iii. Each MWC shall not emit greater than 42.45 tons of sulfur dioxide per calendar year. [P 093-0008 & P 093-0009 Part VI.C.3.]
- iv. In the event that the acid gas scrubber control equipment control efficiency for SO<sub>2</sub> falls below 75% by weight or volume measured as required by RCSA §22a-174-38(c)(7) and the SO<sub>2</sub> emission rate exceeds 32 ppmvd corrected to seven percent oxygen, based on a 24-hour geometric average, as determined through CEM compliance data, and the cause cannot be corrected within 24 hours, the Permittee shall immediately institute a furnace shutdown procedure in accordance with the O&M Manual. The furnace will be permitted to restart only after the Permittee demonstrated 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, that it is in compliance with the SO<sub>2</sub> permit conditions. The commissioner shall determine the need and scope of further testing to the extent necessary to document compliance, and the Permittee shall conduct such testing as the commissioner determines is necessary to document compliance. [P 093-0008 & P 093-0009 Part VI.C.4.]

#### *b. Monitoring Requirements*

- i. The Permittee shall install, operate and calibrate a continuous emission monitoring system for sulfur dioxide and shall certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring system have been met and are being met. SO<sub>2</sub> 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.
  - 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 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)]
- ii. Continuous compliance with the sulfur dioxide limit in Section III.A.7.a.i 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 093-0008 & P 093-0009 Part VI.C.1.]
- iii. For an emission limit measured as a percent reduction, compliance shall be determined by measuring the concentration of SO<sub>2</sub> 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). [RCSA §22a-174-38(c)(7)]
- iv. The Permittee shall comply with the following minimum data requirements:
  - 1. Data available for the SO<sub>2</sub> 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)]

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2. 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 units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
3. At least three equally spaced data points per hour shall be used to calculate a one-hour average; [RCSA §22a-174-38(j)(2)(D)]
4. The percentage of data available shall be calculated as follows:
  - (A) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and
  - (B) 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.  
[ RCSA §22a-174-38(j)(2)(F)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the one-hour average sulfur dioxide emissions, the one-hour average sulfur dioxide reduction efficiency levels, the 24-hour daily geometric average sulfur dioxide emission concentrations, and the 24-hour daily geometric average percent reductions in sulfur dioxide emissions. [RCSA §22a-174-38(k)(3)(B), RCSA §22a-174-38(k)(3)(C) & RCSA §22a-174-38(k)(4)(A)]
- ii. The Permittee shall make and maintain records of the calendar dates when the average SO<sub>2</sub> emission concentration and percent reduction 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)]
- iii. The Permittee shall make and maintain records of the calendar dates for which the minimum number of hours of any data required Section III.A.7.b 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)]
- iv. The Permittee shall identify any exclusion of SO<sub>2</sub> emissions data from the calculation of average SO<sub>2</sub> emission concentration and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]
- v. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the SO<sub>2</sub> CEMs. [RCSA §22a-174-38(k)(8)]
- vi. The Permittee shall calculate and record calendar year SO<sub>2</sub> emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- vii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

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#### d. Reporting Requirements

- ii. The Permittee shall submit a quarterly report to the commissioner within thirty (30) days following the end of each calendar quarter. The report shall include all SO<sub>2</sub> data recorded during the calendar quarter, each calendar date during the calendar quarter when SO<sub>2</sub> average emission concentrations and/or percent reductions exceeded the applicable limit, reasons for the exceedance and a description of the corrective actions taken. The report shall also include data and results of any CEM quality assurance testing during the reported quarter.  
[P 093-0008 & P 093-0009 Part III.K; RCSA §22a-174-38(1)(2)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(1)(3) and the calendar year emissions for SO<sub>2</sub> in units of tons/year for each MWC. [P 093-0008 & P 093-0009 Part IV.C.3.]

## 8. NO<sub>x</sub>

#### a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of NO<sub>x</sub> in excess of 168 ppmvd corrected to seven percent oxygen. Continuous compliance with the NO<sub>x</sub> limits shall be determined using CEM data and shall be based on a 24-hour daily 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 093-0008 & P 093-0009 Part VI.D.1.]
- ii. During the warm-up period when no municipal solid waste is being combusted and only propane is being combusted, and during periods of start-up, shutdown, and malfunction, the Permittee shall not cause or allow emission of NO<sub>x</sub> in excess of 300 ppmvd corrected to seven percent oxygen, based on a 24-hour daily average. The warm-up period shall be limited to 8 hours per occurrence. [P 093-0008 & P 093-0009 Part VI.D.2.]
- iii. The Permittee shall not cause or allow the emission of NO<sub>x</sub> in excess of 148.35 tons per calendar year from each MWC. [P 093-0008 & P 093-0009 Part VI.D.3.]
- iv. In the event that the NO<sub>x</sub> emission rate exceeds 300 ppmvd corrected to seven percent oxygen, based on a 24-hour daily average, as determined through CEM compliance data, and the cause cannot be corrected within 24 hours, the Permittee shall immediately institute a furnace shutdown procedure in accordance with the O&M Manual. 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, the Permittee shall demonstrate, in writing to the commissioner, that it is in compliance with the NO<sub>x</sub> permit conditions. The commissioner shall determine the need and scope of further testing to the extent necessary to document compliance, and the Permittee shall conduct such testing as the commissioner determines is necessary to document compliance. [P 093-0008 & P 093-0009 Part VI.D.4.]

#### b. Monitoring Requirements

- i. The Permittee shall install, operate and calibrate a continuous emission monitoring system for NO<sub>x</sub> and shall certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring system have been met and are being met. NO<sub>x</sub> monitors shall meet the applicable performance and quality assurance requirements of 40 CFR 60, Appendix B, Performance

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Specification 2; 40 CFR 60, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(D)]

- ii. The Permittee shall comply with the following minimum data requirements:
  1. Data available for the NO<sub>x</sub> 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)]
  2. 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 units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
  3. At least three equally spaced data points per hour shall be used to calculate a one-hour average; [RCSA §22a-174-38(j)(2)(D)]
  4. The percentage of data available shall be calculated as follows:
    - (A) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and
    - (B) 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.  
[ RCSA §22a-174-38(j)(2)(F)]

#### c. *Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the one-hour average NO<sub>x</sub> emission concentration and the 24-hour daily average NO<sub>x</sub> emission concentration. [RCSA §22a-174-38(k)(3)(D) & RCSA §22a-174-38(k)(4)(B)]
- ii. The Permittee shall make and maintain records of the calendar dates when the average NO<sub>x</sub> emission concentration 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)]
- iii. The Permittee shall make and maintain records of the calendar dates for which the minimum number of hours of any data required by Section III.A.8.b 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)]
- iv. The Permittee shall identify any exclusion of NO<sub>x</sub> emissions data from the calculation of average NO<sub>x</sub> emission concentration and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]
- v. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the NO<sub>x</sub> CEMs. [RCSA §22a-174-38(k)(8)]

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- vi. The Permittee shall calculate and record calendar year NO<sub>x</sub> emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- vii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### d. Reporting Requirements

- i. The Permittee shall submit a quarterly report to the commissioner within thirty (30) days following the end of each calendar quarter. The report shall include all NO<sub>x</sub> data recorded during the calendar quarter, each calendar date during the calendar quarter when average NO<sub>x</sub> emission concentrations exceeded the applicable limit, reasons for the exceedance and a description of the corrective actions taken. The report shall also include data and results of any CEM quality assurance testing during the reported quarter.  
[P 093-0008 & P 093-0009 Part III.K; RCSA §22a-174-38(l)(2)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for NO<sub>x</sub> in units of tons/year for each MWC. [P 093-0008 & P 093-0009 Part IV.C.3.]

## 9. CO

#### a. Limitation or Restriction

- i. The Permittee shall not cause or allow emission of CO in excess of 100 ppmvd corrected to seven percent oxygen. Continuous compliance with the CO limits shall be determined using CEM data and shall be based on a 4-hour block 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 093-0008 & P 093-0009 Part VI.E.1.]
- ii. During the warm-up period when no municipal solid waste is being combusted and only propane is being combusted, and during periods of start-up, shutdown, and malfunction, the Permittee shall not cause or allow emission of CO in excess of 8201 ppmvd corrected to seven percent oxygen, based on a 1-hour average and 2261 ppmvd corrected to seven percent oxygen, based on an 8-hour block average. The warm-up period shall be limited to 8 hours per occurrence. [P 093-0008 & P 093-0009 Part VI.E.2.]
- iii. The Permittee shall not cause or allow the emission of CO in excess of 25.0 tons per calendar year from each MWC. [P 093-0008 & P 093-0009 Part VI.E.3.]

#### b. Monitoring Requirements

- i. The Permittee shall install, operate and calibrate a continuous emission monitoring system for CO and shall certify to the commissioner, in writing, that the equipment specifications for the continuous emission monitoring system have been met and are being met. 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,

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Procedure 1; and 40 CFR 60.13.

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 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. [RCSA §22a-174-38(c)(11)(A)]
- iii. The Permittee shall comply with the following minimum data requirements:
  1. Data available for the 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)]
  2. 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 units combust any municipal solid waste; [RCSA §22a-174-38(j)(2)(C)]
  3. At least three equally spaced data points per hour shall be used to calculate a one-hour average; [RCSA §22a-174-38(j)(2)(D)]
  4. The percentage of data available shall be calculated as follows:
    - (A) In accordance with the procedures specified on forms furnished or prescribed by the commissioner, and
    - (B) 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.  
[ RCSA §22a-174-38(j)(2)(F)]

#### c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the one-hour average CO emissions concentration. The Permittee shall also make and maintain records of the 4-hour block average CO emissions concentration. [RCSA §22a-174-38(k)(3)(E) & RCSA §22a-174-38(k)(4)(C)]
- ii. The Permittee shall make and maintain records of the calendar dates when the average CO emission concentration 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)]
- iii. The Permittee shall make and maintain records of the calendar dates for which the minimum number of hours of any data required by Section III.A.9.b have not been obtained, the reason for not obtaining sufficient data, a description of corrective actions taken and a description of the measures

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taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

- iv. The Permittee shall identify any exclusion of CO emissions data from the calculation of average CO emission concentration and the reason for such exclusion. [RCSA §22a-174-38(k)(7)]
- v. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the CO CEMs. [RCSA §22a-174-38(k)(8)]
- vi. The Permittee shall calculate and record calendar year CO emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- vii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit a quarterly report to the commissioner within thirty (30) days following the end of each calendar quarter. The report shall include all CO data recorded during the calendar quarter, each calendar date during the calendar quarter when average CO emission concentrations exceeded the applicable limit, reasons for the exceedance and a description of the corrective actions taken. The report shall also include data and results of any CEM quality assurance testing during the reported quarter.  
[P 093-0008 & P 093-0009 Part III.K; RCSA §22a-174-38(l)(2)]
- ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for CO in units of tons/year for each MWC. [P 093-0008 & P 093-0009 Part IV.C.3.]

### **10. VOC/HC**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow emissions of VOC/HC to exceed 16 ppmvd (expressed as methane) corrected to seven percent oxygen. [P 093-0008 & P 093-0009 Part VI.F.1.]
- ii. The Permittee shall not cause or allow emissions of VOC/HC to exceed 5.1 tons per calendar year. [P 093-0008 & P 093-0009 Part VI.F.2.]

#### *b. Monitoring Requirements*

- i. Pursuant to RCSA §§22a-174-5(e) and 22a-174-29(e), the commissioner may require the Permittee to conduct additional performance testing of any pollutant, possibly on an annual basis, based on CEM data, emission test results, and/or any other information that the commissioner deems appropriate. [P 093-0008 & P 093-0009 Part VII.D; RCSA §22a-174-33(j)(1)(K) ]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of all required performance tests. [P 093-0008 & P 093-

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0009 Part IV.B.4.]

ii. The Permittee shall calculate and record calendar year emissions for VOC/HC in units of tons/year for each MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year.

[P 093-0008 & P 093-0009 Part IV.B.3.]

iii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

i. The Permittee shall submit reports to the commissioner of all required performance tests. [P 093-0008 & P 093-0009 Part IV.C.1.]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. The annual report shall include the calendar year emissions for VOC/HC in units of tons/year for each MWC.

[P 093-0008 & P 093-0009 Part IV.C.3.]

### **11. Hydrogen Chloride (HCl)**

#### *a. Limitation or Restriction*

i. The Permittee shall not cause or allow emission of hydrogen chloride in excess of 25 ppmvd corrected to seven percent oxygen; or, shall achieve 95% reduction by weight or volume measured as required by RCSA §22a-174-38(c)(7), whichever is less stringent, not to exceed 36.2 ppmvd 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 093-0008 & P 093-0009 Part VI.G.1.]

ii. In the event that the acid gas scrubber control efficiency for HCl falls below 90% by weight or volume measured as required by RCSA §22a-174-38(c)(7) and the HCl emission rate exceeds 26.4 ppmvd corrected to seven percent oxygen, as determined through stack testing compliance data, and the cause cannot be corrected within 24 hours, the Permittee shall immediately institute a furnace shutdown procedure in accordance with the O&M Manual. The furnace will be permitted to restart only after the Permittee demonstrated 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, that it is in compliance with the HCl permit conditions. The commissioner shall determine the need and scope of further testing to the extent necessary to document compliance, and the Permittee shall conduct such testing as the commissioner determined is necessary to document compliance.

[P 093-0008 & P 093-0009 Part VI.G.2.]

#### *b. Monitoring and Testing Requirements*

i. Compliance with the emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i). [P 093-0008 & P 093-0009 Part VI.G.1; RCSA §22a-174-38(c)(3)]

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

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minimum, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner. [RCSA §22a-174-38(1)(4)]

- iii. The Permittee shall conduct an annual performance test for hydrogen chloride, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part VI.G.1; RCSA §22a-174-38(i)(2)]
- iv. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.G.1; RCSA §22a-174-38(i)(1)]
- v. Testing for hydrogen chloride shall be conducted in accordance with the following procedures:
  1. 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;
  2. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 26 test run for hydrogen chloride;
  3. The percent reduction in potential hydrogen chloride emissions (%  $P_{HCl}$ ) shall be computed using the following equation:

$$(\% P_{HCl}) = ((E_i - E_o) / E_i) \times 100$$

where:

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

$E_i$  = potential hydrogen chloride emission concentration measured at the control device inlet, corrected to 7 % O<sub>2</sub> (dry basis).

$E_o$  = controlled hydrogen chloride emission concentration measured at the control device outlet, corrected to 7 % O<sub>2</sub> (dry basis);

4. 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.  
[RCSA §22a-174-38(i)(4)(G)]
- iii. For an emission limit measured as a percent reduction, compliance shall be determined by measuring the concentration of 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 one-hundred (100). [RCSA §22a-174-38(c)(7)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for hydrogen chloride. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall calculate and record calendar year hydrogen chloride emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- iii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(l)(5)]
- 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 hydrogen chloride emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for HCl in units of tons/year for each MWC.  
[P 093-0008 & P 093-0009 Part IV.C.3.]

## **12. Cadmium**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of cadmium in excess of 0.035 milligrams per dry standard cubic meter of exhaust gas 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 093-0008 & P 093-0009 Part VI.H.]

#### *b. Monitoring Requirements and Testing Requirements*

- i. Compliance with this emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i). [P 093-0008 & P 093-0009 Part VI.H; RCSA §22a-174-38(c)(3)]
- 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, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner.[RCSA §22a-174-38(l)(4)]

### **Section III. Applicable Requirements and Compliance Demonstration**

- iii. The Permittee shall conduct an annual performance test for cadmium, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part VI.H; RCSA §22a-174-38(i)(2)]
- iv. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.H; RCSA §22a-174-38(i)(1)]
- v. Testing for cadmium shall be conducted in accordance with the following procedures:
  - 1. 40 CFR 60, appendix A, Reference Method 1 , shall be used to determine the location and number of sampling points;
  - 2. 40 CFR 60, appendix A, Reference Method 3 shall be used for flue gas analysis;
  - 3. 40 CFR 60, appendix A, Reference Method 29 shall be used to determine compliance with the cadmium emission limits;
  - 4. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 26 test run for cadmium;
  - 5. The minimum sample time shall be two (2) hours per each Method 29 test run;
  - 6. The compliance determination for cadmium shall be based on an arithmetic average determined using all data generated in three (3) test runs.  
[RCSA §22a-174-38(i)(4)(B)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for cadmium. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(l)(5)]
- 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 cadmium emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3).  
[P 093-0008 & P 093-0009 Part IV.C.3.]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### **13. Lead**

##### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow emission of lead in excess of 0.40 milligrams per dry standard cubic meter of exhaust gas 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 093-0008 & P 093-0009 Part VI.I.1.]
- ii. The emissions of lead from each MWC shall not exceed 0.211 tons per calendar year. [P 093-0008 & P 093-0009 Part VI.I.2.]

##### *b. Monitoring Requirements and Testing Requirements*

- i. Compliance with this emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i). [P 093-0008 & P 093-0009 Part VI.I; RCSA §22a-174-38(c)(3)]
- 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, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner.[RCSA §22a-174-38(i)(4)]
- iii. The Permittee shall conduct an annual performance test for lead, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part VI.I; RCSA §22a-174-38(i)(2)]
- iv. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.I.1; RCSA §22a-174-38(i)(1)]
- v. Testing for lead shall be conducted in accordance with the following procedures:
  1. 40 CFR 60, appendix A, Reference Method 1 , shall be used to determine the location and number of sampling points;
  2. 40 CFR 60, appendix A, Reference Method 3 shall be used for flue gas analysis;
  3. 40 CFR 60, appendix A, Reference Method 29 shall be used to determine compliance with the lead emission limits;
  4. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 26 test run for lead;
  5. The minimum sample time shall be two (2) hours per each Method 29 test run;
  6. The compliance determination for lead shall be based on an arithmetic average determined using all data generated in three (3) test runs.  
[RCSA §22a-174-38(i)(4)(B)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for lead. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall calculate and record calendar year lead emissions in units of tons/year for this MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- iii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(l)(5)]
- 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 lead emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3) and the calendar year emissions for Pb in units of tons/year for each MWC.  
[P 093-0008 & P 093-0009 Part IV.C.3.]

### **14. Mercury**

#### *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, shall 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 093-0008 & P 093-0009 Part VI.J.]

#### *b. Monitoring and Testing Requirements*

- i. Compliance with the emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i). [P 093-0008 & P 093-0009 Part VI.J; RCSA §22a-174-38(c)(3)]
- 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, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner.[RCSA §22a-174-38(l)(4)]

### Section III. Applicable Requirements and Compliance Demonstration

- iii. The Permittee shall conduct an annual performance test for mercury, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part VI.G.1; RCSA §22a-174-38(i)(2)]
- iv. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.J; RCSA §22a-174-38(i)(1)]
- v. Testing for mercury shall be conducted in accordance with the following procedures:
  1. 40 CFR 60, appendix A, Reference Method 1 , shall be used to determine the location and number of sampling points;
  2. 40 CFR 60, appendix A, Reference Method 3 shall be used for flue gas analysis;
  3. 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;
  4. The minimum sample time shall be two (2) hour per each Method 29 test run;
  5. The percent reduction in potential mercury emissions (%  $P_{Hg}$ ) shall be computed using the following equation:

$$(\% P_{Hg}) = ((E_i - E_o) / E_i) \times 100$$

where:

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

$E_i$  = potential mercury emission concentration measured at the control device inlet, corrected to 7 % O<sub>2</sub> (dry basis).

$E_o$  = controlled mercury emission concentration measured at the mercury control device outlet, corrected to 7 % O<sub>2</sub> (dry basis);

6. The compliance determination for mercury shall be based on an arithmetic average of emission concentrations or percent reductions determined using all data generated in a minimum of at least three (3) test runs.  
[RCSA §22a-174-38(i)(4)(C)]
- iv. For an emission limit measured as a percent reduction, compliance shall be determined by measuring the concentration of mercury 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). [RCSA §22a-174-38(c)(7)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for mercury. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(l)(5)]
- 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 mercury emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(l)(3). [P 093-0008 & P 093-0009 Part IV.C.3.]

### **15. Dioxin/furan**

#### *a. Limitation or Restriction*

- i. 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 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 093-0008 & P 093-0009 Part VI.K.1.]
- ii. The Permittee shall not cause or allow emission of greater than 0.46 ng/dscm corrected to seven percent oxygen (dry basis) of toxic equivalents (2,3,7,8-tetrachlorodibenzo-p-dioxins). [RCSA §22a-174-1 and EPA/625/3-87/012, March 1987] [P 093-0008 & P 093-0009 Part VI.K.2.]

#### *b. Monitoring and Testing Requirements*

- i. Compliance with the emission limit shall be determined based on an annual performance test, performed as set forth in RCSA §22a-174-38(i). [P 093-0008 & P 093-0009 Part VI.K.1; RCSA §22a-174-38(c)(3)]
- 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, the plan shall contain information regarding sampling locations, test methods, sampling protocols, sampling analysis procedures, and any other information required by the commissioner.[RCSA §22a-174-38(l)(4)]
- iii. The Permittee shall conduct an annual performance test for dioxin/furans, for each MWC, at least once per calendar year. Such test shall be conducted no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous test. [P 093-0008 & P 093-0009 Part

### Section III. Applicable Requirements and Compliance Demonstration

VI.G.1; RCSA §22a-174-38(i)(2)]

- iv. Notwithstanding Section III.A.15.b.iii, 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, 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 in a fixed sequence so that each unit is tested at the same frequency. One unit at the plant shall be tested at least once per calendar year, and such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test. If in any year following the year of election of such reduced testing, the dioxin/furan emission test 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)]
- v. The performance test shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VI.J; RCSA §22a-174-38(i)(1)]
- vi. Testing for dioxin/furans shall be conducted in accordance with the following procedures:
  - 1. 40 CFR 60, appendix A, Reference Method 1 , shall be used to determine the location and number of sampling points;
  - 2. 40 CFR 60, appendix A, Reference Method 3 shall be used for flue gas analysis;
  - 3. 40 CFR 60, appendix A, Reference Method 23 shall be used to determine the dioxin/furan emission concentration;
  - 4. The minimum sample time shall be four (4) hours per test run;
  - 5. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 23 test run for dioxin/furans; and
  - 6. The compliance determination for dioxin/furans shall be based on an arithmetic average determined using all data generated in three (3) test runs.[RCSA §22a-174-38(i)(4)(H)]

#### c. *Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for mercury. The maximum demonstrated unit load and maximum demonstrated particulate matter control device temperature shall be recorded for each dioxin/furan performance test. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *d. Reporting Requirements*

- i. The Permittee shall provide written notification to the commissioner three (3) business days prior to conducting the performance test. [RCSA §22a-174-38(1)(5)]
- 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 dioxin/furan emission levels exceed the applicable emission limits. [RCSA §22a-174-38(1)(6)]
- 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. The annual report shall include the information as set forth in RCSA §22a-174-38(1)(3). [P 093-0008 & P 093-0009 Part IV.C.3.]

#### **16. Sulfuric Acid**

##### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow sulfuric acid emissions to exceed 4.1 ppmvd corrected to seven percent oxygen. [P 093-0008 & P 093-0009 Part VI.L.]

##### *b. Monitoring Requirements*

- i. Pursuant to RCSA §§22a-174-5(e) and 22a-174-29(e), the commissioner may require the Permittee to conduct additional performance testing of any pollutant, possibly on an annual basis, based on CEM data, emission test results, and any other information that the commissioner deems appropriate. [P 093-0008 & P 093-0009 Part VII.D.]

##### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of all required performance tests. [P 093-0008 & P 093-0009 Part IV.B.4.]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

##### *d. Reporting Requirements*

- i. The Permittee shall submit reports to the commissioner of all required performance tests. [P 093-0008 & P 093-0009 Part IV.C.1.]

#### **17. MWC Acid Gases**

##### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow the emissions of MWC Acid Gases, from both MWCs (permits 093-0008 & 093-0009) combined, to exceed 89.0 tons per calendar year. MWC Acid Gases are the sum of SO<sub>2</sub> and HCl emissions. [P 093-0008 & P 093-0009 Part VI.M.]

##### *b. Monitoring Requirements*

### **Section III. Applicable Requirements and Compliance Demonstration**

- i. The Permittee shall monitor SO<sub>2</sub> in accordance with Section III.A.7 of this Title V permit and test for HCl in accordance with Table III.A.11 of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall calculate and record calendar year SO<sub>2</sub> and HCl emissions in units of tons/year for each MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall include the calendar year emissions, in units of tons/year, of MWC Acid Gases (SO<sub>2</sub> and HCl) for each MWC in the annual report required by RCSA §22a-174-38(l)(3). [P 093-0008 & P 093-0009 Part IV.C.3.]

### **18. Ammonia**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow ammonia emissions to exceed 18 ppmvd corrected to seven percent oxygen. [P 093-0008 & P 093-0009 Part VI.N.]

#### *b. Monitoring Requirements*

- i. The Permittee shall conduct an annual performance test for ammonia using EPA Method 26A or other method approved by the commissioner. All performance tests shall be conducted under representative full load operating conditions. [P 093-0008 & P 093-0009 Part VII.A.]
- ii. The compliance determination for ammonia shall be based on an arithmetic average determined using all data generated in three test runs. The minimum sample time shall be one hour per each test run. [P 093-0008 & P 093-0009 Part VII.A.]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of all required performance tests. [P 093-0008 & P 093-0009 Part IV.B.4.]
- ii. The Permittee shall calculate and record calendar year emissions for ammonia in units of tons/year for each MWC. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [P 093-0008 & P 093-0009 Part IV.B.3.]
- iii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *d. Reporting Requirements*

- i. The Permittee shall submit reports to the commissioner of all required performance tests. [P 093-0008 & P 093-0009 Part IV.C.1.]
- ii. The Permittee shall include the calendar year ammonia emissions in units of tons/year for each MWC in the annual report required by RCSA §22a-174-38(1)(3). [P 093-0008 & P 093-0009 Part IV.C.4.c.]

### **19. Hazardous Air Pollutants**

#### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant listed in RCSA §22a-174-29. [P 093-0008 & P 093-0009 Part VI.O.]

#### *b. Monitoring and Testing Requirements*

- i. Pursuant to RCSA §§22a-174-5(e) and 22a-174-29(e), the commissioner may require the Permittee to conduct additional performance testing of any pollutant, possibly on an annual basis, based on CEM data, emission test results, and any other information that the commissioner deems appropriate. [P 093-0008 & P 093-0009 Part VII.D.]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of all required performance tests. [P 093-0008 & P 093-0009 Part IV.B.4.]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit reports to the commissioner of all required performance tests. [P 093-0008 & P 093-0009 Part IV.C.1.]

### **20. Furnace Temperature**

#### *a. Limitation or Restriction*

- i. The auxiliary burner system shall have the capability of raising combustion gas temperatures to 1800°F for a combustion gas residence time of at least one second, except during periods of start-up, warm-up, shutdown, and malfunction. Such system shall be capable of maintaining a minimum combustion gas temperature of 1500°F after secondary air injections for at least one second. The combustion gas temperature when firing MSW and PDW, 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 gas exit temperature is a surrogate for the furnace temperature. [P 093-0008 & P 093-0009 Part I.A.1.e.]

### **Section III. Applicable Requirements and Compliance Demonstration**

#### *b. Monitoring Requirements*

- i. The Permittee shall continuously monitor the furnace temperature as measured at the superheater outlet. Averaging time is a 4-hour block average. [P 093-0008 & P 093-0009 Part III.D.]

#### *c. Record Keeping Requirements*

- i. The Permittee shall continuously record the furnace temperature as measured at the superheater outlet. Averaging time is a 4-hour block average. [P 093-0008 & P 093-0009 Part III.D.]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. The Permittee shall review all recorded CEM data daily and shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation. The Permittee 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 or parameter, no later than ten days after such deviation commenced.

[RCSA §22a-174-33(p)(1) and P 093-0008 & P 093-0009 Part III.H.]

- ii. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour average. [P 093-0008 & P 093-0009 Part III.K.]

### **21. 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. Operators shall be certified by the commissioner under RCSA §22a-231-1. All chief operators and shift operators must satisfactorily complete an operator training course conducted by the commissioner pursuant to RCSA §22a-174-38(h)(3). The equipment operators shall be trained in the operation and maintenance of both the fuel burning and pollution control equipment. [P 093-0008 & P 093-0009 Part V.A.]

#### *b. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the date, the time of the shift, the name of the supervisor of that shift and the supervisor's operator certification. [P 093-0008 & P 093-0009 Part IV.B.5.]
- ii. Operator training and certification records shall be maintained on an annual basis, as follows:
  1. 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

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of current certification;

2. The names of the chief operators and shift operators who have completed an operator training course as required under subdivision (3) of RCSA §22a-174-38(h); and
3. The names of the persons at the plant who have completed a training program as required under subdivision (5) of RCSA §22a-174-38(h).  
[RCSA §22a-174-38(k)(2)]

iii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *c. Reporting Requirements*

- i. The Permittee shall make operator and training records available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### **22. MWC O&M Manual**

#### *a. Limitation or Restriction*

- i. The Permittee shall maintain an MWC Operating & Maintenance (O&M) Manual that shall be updated on a yearly basis. Any revision to this manual which conflicts or may conflict with any condition of this 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 093-0008 & P 093-0009 Part V.B.]
- ii. The Permittee shall establish a training program to review the O&M Manual with each person who has responsibilities affecting the operation of the plant. The training program shall be repeated on an annual basis for each person. [P 093-0008 & P 093-0009 Part V.C.]
- iii. The Permittee shall develop a site-specific Municipal Waste Combustor Operating & Maintenance Manual with an index or revise an existing operating and maintenance manual to meet the requirements of RCSA §22a-174-38. Such Municipal Waste Combustor Operating & Maintenance Manual shall be updated on an annual basis. The Municipal Waste Combustor Operating & Maintenance Manual shall include:
  1. A summary of the applicable emission limits and operational requirements;
  2. A description of basic combustion theory application to an municipal waste combustor unit;
  3. Procedures for receiving, handling, and feeding municipal solid waste;
  4. Procedures for startup, shutdown, and malfunction;
  5. Procedures for maintaining proper combustion air supply levels;
  6. Procedures for operating the combustor within the standards established under RCSA §22a-174-38;
  7. Procedures for responding to periodic upset or off-specification conditions;

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8. Procedures for minimizing particulate matter carryover;
  9. Procedures for handling ash;
  10. Procedures for monitoring emissions; and
  11. Procedures for reporting and record keeping. [RCSA §22a-174-38(h)(4)]
- iv. 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 with the job positions identified in this subdivision prior to each new employee's assumption of any responsibilities at a MWC plant. The Permittee shall train those who presently are employed in the job position identified above within one year after the effective date of RCSA §22a-174-38. Following initial training, the training program shall be repeated on an annual basis for each person identified above. [RCSA §22a-174-38(h)(5)]
  - v. The Operating & Maintenance Manual shall be kept in a location readily accessible to all persons identified in subdivision (5) of RCSA §22a-174-38(h) and shall be available for inspection by the commissioner or Administrator upon request. [RCSA §22a-174-38(h)(6)]

#### *b. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the name of each person that has reviewed the operating manual, the date of the initial review and the date of the annual review. [P 093-0008 & P 093-0009 Part IV.B.6]
- ii. The Permittee shall maintain records of the information specified in subdivisions (2) through (11) of RCSA §22a-174-38(k), as applicable, labeling each record with the calendar date on which the data was generated. Each record shall be maintained for a period of at least five years from the date the record was created. [RCSA §22a-174-38(k)(1)]
- iii. Operator training and certification records shall be maintained on an annual basis, as follows: (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 subdivision (3) of RCSA §22a-174-38(h); and (C) The names of the persons at the plant who have completed a training program as required under subdivision (5) of RCSA §22a-174-38(h). [RCSA §22a-174-38(k)(2)]

#### *c. Reporting Requirements*

- i. 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 093-0008 & P 093-0009 Part V.B.]

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#### 23. 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). [RCSA §22a-174-38(g)(5)]

*b. Monitoring Requirements*

- i. When using activated carbon to control mercury and/or dioxin/furans emissions, monitoring of the carbon feed rate shall meet the requirements of 40 CFR 60.1820. [RCSA §22a-174-38(j)(1)(G)]
- ii. The Permittee shall continuously monitor and record the powdered activated carbon injection rate, as estimated from the screw feeder speed indicator. Averaging time is an 8-hour block average. [P 093-0008 & P 093-0009 Part III.D & RCSA §22a-174-33(j)(1)(K) ]

*c. Record Keeping Requirements*

- i. The Permittee shall maintain the following records for the activated carbon injection system:
  1. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial mercury and/or dioxin/furan emissions performance test and all subsequent annual performance tests, with supporting calculations;
  2. 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;
  3. 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 the procedures specified below:
    - (A) For each MWC unit, estimate the weight of carbon delivered, and
    - (B) 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 subparagraph (K) of subdivision (i)(4) of RCSA §22a-174-38, and sum the results for the total number of hours of operation during the calendar quarter;
  4. 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
  5. The calendar dates when average carbon mass feed rates were less than the hourly carbon feed rates estimated during dioxin/furan emission tests. The reasons for such feed rates and a description of corrective actions taken shall also be recorded.

[RCSA §22a-174-38(k)(11)]

- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

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#### *d. Reporting Requirements*

- i. The Permittee shall submit a quarterly report to the commissioner within thirty (30) days following the end of each calendar quarter in which data were collected. Such report shall include the following:
  1. 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.
  2. 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
  3. 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).  
[RCSA §22a-174-38(1)(2)(C)]

#### **24. 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 at any point in time is three. [P 093-0008 & P 093-0009 Part II.A]
- ii. The Permittee shall properly maintain and operate the fabric filter, the spray dryer absorber, the selective non-catalytic reduction system and the carbon injection system at all times in accordance with the requirements of RCSA §22a-174-7. [P 093-0008 & P 093-0009 Part II.B]
- iii. In the event of the malfunction of this MWC's 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 Permittee will be allowed to operate this MWC during complete shutdown of the air pollution control equipment for a period not to exceed the burnout of the MWC's charge at the time of the shutdown of the air pollution control equipment. The Permittee shall not charge any MSW into a unit following a shutdown of the air pollution control equipment until after the air pollution control equipment has been put back on-line. [P 093-0008 & P 093-0009 Part II.C]
- iv. The Permittee shall continuously monitor and record total combined overfire and underfire air, FF differential pressure and SNCR reagent flow rate. Averaging time is a 24-hour daily average for a minimum of 95% availability of MWC operating hours in a calendar year. [P 093-0008 & P 093-0009 Part III.G]
- v. The Permittee shall ensure that the CEM systems meet all applicable performance specifications and quality assurance requirements of RCSA §22a-174-38(j) and RCSA §22a-174-4. [P 093-0008 & P 093-0009 Part III.I]

##### *b. Monitoring Requirements*

- i. The Permittee shall monitor the superheater outlet temperature and the fabric filter inlet temperature using redundant thermocouples. Thermocouples shall be inspected

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semiannually and the signal transmitters shall be calibrated semiannually. [P 093-0008 & P 093-0009 Part III.J]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the dates on which cleaning of the boiler tube heat transfer surfaces is performed. [P 093-0008 & P 093-0009 Part IV.B.8]
- ii. The Permittee shall make and keep records of the dates and time periods of startup, shutdown, malfunction and warm-up. [P 093-0008 & P 093-0009 Part IV.B.9]
- iii. 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)]

#### *d. Reporting Requirements*

- i. The Permittee shall provide, to the commissioner upon request, any records required by Section III.A.24. [RCSA§22a-174-4(d)(1)]

## **25. Oxygen**

#### *a. Monitoring Requirements*

- i. The Permittee shall install, operate, calibrate and maintain continuous monitoring system for measuring oxygen content of the flue gas at each location where CO SO<sub>2</sub> or NO<sub>x</sub> are monitored. [RCSA §22a-174-38(j)(1)]
- ii. O<sub>2</sub> 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 60.1.
- ii. Data available for the O<sub>2</sub> 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. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of daily calibrations and quarterly accuracy determinations for the O<sub>2</sub> CEMs. [RCSA §22a-174-38(k)(8)]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *c. Reporting Requirements*

- i. The Permittee shall report all CEMs data to the commissioner on a quarterly basis using a one-hour average. [P 093-0008 & P 093-0009 Part III.K]

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### 26. Stack Parameters

#### a. Limitation or Restriction

- i. The stack height shall be 266.25 ft above grade, or greater. [P 093-0008 & P 093-0009 Part I.C.1]
- ii. The exhaust gas flow rate at maximum rated capacity shall be 52,602 acfm @ 270°F, or greater. [P 093-0008 & P 093-0009 Part I.C.2]
- iii. The typical stack exit temperature range shall be 250 °F - 350 °F. [P 093-0008 & P 093-0009 Part I.C.3]
- iv. The distance from the stack to the nearest property line shall be 225ft, or greater. [P 093-0008 & P 093-0009 Part I.C.4]

#### b. Record Keeping Requirements

- i. The Permittee shall maintain records sufficient to demonstrate that the limitations in Section III.A.26.a are met. [RCSA§22a-174-33(j)(1)(K)]

#### c. Reporting Requirements

- i. The Permittee shall provide, to the commissioner upon request, any records required by Section III.A.26. [RCSA§22a-174-4(d)(1)]

### B. EMISSIONS UNIT 6 (EU-6) (Ash Conditioner/Handling System)

#### 1. Fugitive Ash Emissions

##### a. Limitation or Restriction

- i. Except during periods of maintenance and repair of ash conveying systems, the visible emissions to the atmosphere from the conveyance or transfer of combustion ash shall be limited to five percent of the observation period (i.e., nine minutes per three hour period), as set forth in RCSA §22a-174-38(i)(4)(I). During periods of maintenance and repair of the ash conveyance systems all reasonable measures to control emissions from each MWC shall be implemented. [RCSA §22a-174-38(f)] [P 093-0008 & P 093-0009 Part VIII.D]

##### b. Monitoring Requirements

- i. Following the date that the initial performance test for fugitive ash is completed, the Permittee shall conduct an annual performance test for this pollutant no less than nine (9) calendar months and no more than fifteen (15) calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)]
- ii. Testing for fugitive ash emissions shall be conducted in accordance with the following procedures:
  1. 40 CFR Part 60, Appendix A, Reference Method 22 shall be used for determining compliance with the fugitive ash emissions limit;

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2. The minimum observation time shall be a series of three one-hour observations; and
3. The observation period shall include representative operational times when the facility is transferring ash from the municipal waste combustor unit to the area where ash is stored or loaded into containers or trucks.

[RCSA §22a-174-38(i)(4)(I)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits for fugitive ash. [RCSA §22a-174-38(k)(10)]
- ii. The Permittee shall maintain records for a period of at least five (5) years from the date the records were created. [RCSA §22a-174-38(k)(1)]

#### *d. Reporting Requirements*

- i. 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 fugitive ash emission levels exceed the applicable emission limits. [RCSA §22a-174-38(l)(6)]

### **C. EMISSIONS UNIT 7 and EMISSIONS UNIT 12 (EU-7 and EU-12) (Detroit Diesel DDFP-04AT Diesel Fired Engine powering an Emergency Fire Pump and Kohler 35RZ71 Propane-fired Emergency Generator at Sanitary Lift Station)**

#### **1. Hours of Operation (EU-7 only)**

##### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow the Detroit Diesel DDFP-04AT engine powering an emergency fire pump to operate except during periods of testing and scheduled maintenance or during an emergency; and operation of the engine shall not exceed 300 hours during any 12 month rolling aggregate [RCSA §22a-174-3b(e)(2)(C)]

##### *b. Monitoring Requirements*

- i. The permittee shall monitor the hours of operation of the emergency engine using log entries of the hours run each day. [RCSA §22a-174-3b(e)(3) and §22a-174-3b(e)(4)]

##### *c. Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the hours of operation of the emergency engine for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- ii. The permittee shall make and maintain records of when the engine was operated and for what purpose. These records shall include the hours of operation for each month and each twelve (12) month rolling aggregate. All records made to determine compliance with this requirement shall be maintained for five (5) years from the date such record is created. [RCSA § 22a-174-3b(e)(3); RCSA § 22a-174-3b(e)(4)]

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#### *d. Reporting Requirements*

- i. The Permittee shall report the hours of operation for the emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall provide all the records specified in Section III.C.1.c of this Title V Permit to the commissioner within thirty (30) days of receipt of a written request from the commissioner. [RCSA §22a-174-4(d)(1)]

#### **2. Sulfur Content (EU-7 only)**

##### *a. Limitation or Restriction*

- i. The Permittee shall not cause or allow the Detroit Diesel DDFP-04AT engine, which powers an emergency fire pump, to operate except during periods of testing and scheduled maintenance or during an emergency. Any nongaseous fuel consumed by such engine 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)] Motor vehicle diesel fuel means on-road diesel fuel that meets the sulfur limits in 40 CFR 80.29, 80.500(a) and 80.520(a) and (b). [RCSA §22a-174-42(a)]

##### *b. Monitoring Requirements*

- i. The permittee shall monitor the sulfur content of the fuel used by the emergency engine, using either a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment. Such certification or contract shall include the applicable sulfur content of nongaseous fuel for each shipment. [(RSCA §22a-174-33(j)(l)(K)(ii)]

##### *c. Record Keeping Requirements*

- i. The permittee shall maintain records of the sulfur content of the fuel used by the emergency engine, using either a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or 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. All records made to determine compliance with the requirements of this section shall be maintained for five years from the date such record is created. [RCSA § 22a-174-3b(h); RCSA § 22a-174-3b(e)(3)]

##### *d. Reporting Requirements*

- i. The Permittee shall provide all the records specified in Section III.C.2.c of this Title V Permit to the commissioner within thirty (30) days of receipt of a written request from the commissioner. [RCSA §22a-174-4(d)(1)]

#### **3. Operation and Maintenance Requirements (EU-7 and EU-12)**

##### *a. Limitation or Restriction*

- i. The Permittee shall meet the following requirements, except during periods of start-up:
  1. Change oil and filter every 500 hours of operation or annually, whichever comes first;

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2. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.  
[40 CFR 63 Subpart ZZZZ, Table 2c]

- ii. The Permittee shall minimize the engines' time spent at idle and minimize the engines' start-up time at start-up to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63 Subpart ZZZZ, Table 2c]

#### *b. Record Keeping Requirements*

- i. The Permittee shall make and keep records of all oil and filter changes done on the engines; as well as, all inspections of the engine. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep records of each start-up of the engines and the duration of such start-up. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Reporting Requirements*

- i. The Permittee shall provide all the records specified in Section III.C.3.b of this Title V Permit to the commissioner within thirty (30) days of receipt of a written request from the commissioner. [RCSA §22a-174-4(d)(1)]

### D. PREMISES-WIDE GENERAL REQUIREMENTS

#### Premises-Wide General Requirements

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.

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8. **Variations:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
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-174-22.
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).
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. **Support requirements:** The Permittee shall institute and comply with the following conditions at all times:
  - a. Vehicular traffic areas shall be paved and adequately swept at the plant site.
  - b. Ensure that all trucks when loaded with municipal solid waste or any material likely to become airborne are covered at all times.
  - c. 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.
  - d. The Permittee shall implement a cleanup program on the plant site whereby any refuse, MSW or other materials will be collected. [P093-0008 & P 093-0009 Part VIII.C.]

### Section IV: Compliance Schedule

<b>TABLE IV: COMPLIANCE SCHEDULE</b>				
<b>Emissions Unit</b>	<b>Applicable Regulations</b>	<b>Steps Required for Achieving Compliance (Milestones)</b>	<b>Date by which Each Step is to be Completed</b>	<b>Dates for Monitoring, Record Keeping, and Reporting</b>
		<b>No steps are required for achieving compliance at this time.</b>		

## 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. 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.
- D. 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.
- E. 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.
- F. Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G. Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- H. (If Applicable) The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

## Section VI: Title V Requirements

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

### Title V Requirements

#### A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA-New England, Region 1; 5 Post Office Square, Suite 100; Boston, Massachusetts 02109-3912.

#### 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

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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 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;

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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.D 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).

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#### **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

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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-6m.

#### **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

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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.