



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

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

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

Title V Operating Permit Number	<i>176 - 0006 - TV</i>
Client/Sequence/Town /Premises Numbers	<i>583 /1/176/5</i>
Original Permit Issue Date	April 9, 2010
Revised Permit Issue Date	January 25, 2011
Modified Permit Issue Date	June 29, 2012
Expiration Date	April 9, 2015

Corporation:

ReEnergy Sterling CT Limited Partnership

Premises Location:

10 Exeter Drive, Sterling, Connecticut 06377

Name of Responsible Official and Title:

John O'Rourke, Facility Manager

All the following attached pages 2 through 57, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for _____
Daniel C. Esty
Commissioner

June 29, 2012
Date

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List of Acronyms

ACRONYM	DESCRIPTION
ACM	Actual Cubic Meters
ASC	Actual Stack Concentration
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
Cd	Cadmium
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
dscf	Dry standard cubic feet
dscm	Dry standard cubic meter
EU	Emissions Unit
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
gal	Gallon
GEU	Grouped Emissions Units
gr	Grain
HAP	Hazardous Air Pollutant
H ₂ SO ₄	Sulfuric acid
HCl	Hydrogen chloride
Hg	Mercury
ITT	Intent-to-Test
kPa	Kilo Pascal
lb/hr	Pounds per hour
lb/MMBTU	Pounds per Million British Thermal Units
MASC	Maximum Allowable Stack Concentration
mg	Milligrams
MMBTU/hr	Million British Thermal Units per hour
MW	Megawatt
MWC	Municipal Waste Combustor
ng	Nanograms 1 nanogram = 1.0×10^{-6} milligrams
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
Pb	Lead
pg	Picograms (1 picogram = 1.0×10^{-9} milligrams)
PM/PM ₁₀ /PM _{2.5}	Particulate Matter/Particulate Matter 10 Microns in Diameter/Particulate Matter 2.5 Microns in Diameter
ppmv	Parts per million volume
ppmvd	Parts per million volume, dry
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SOS	Standard Operating Scenario
SO _x /SO ₂	Sulfur Oxides/Sulfur Dioxide
TDF	Tire-Derived Fuel
TSP	Total Suspended Particulate
tpy	Tons per year
VOC	Volatile Organic Compound
μg	Micrograms (1 μg = 1.0×10^{-3} milligrams)

Title V Permit

All conditions in Sections III, IV, VI and VII of this 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 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, VI and VII of this permit in accordance with the Clean Air Act, as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electric generation via Tire-Derived Fuel-fired incinerator/boiler
Primary SIC: 4953
Facility Mailing Address: ReEnergy Sterling CT Limited Partnership
P.O. Box 188
Sterling, CT 06377

Telephone Number: (860) 564-7000

B. PREMISES DESCRIPTION

ReEnergy Sterling CT Limited Partnership (the Permittee) operates a power generating facility that utilizes approximately 10 million tons per year of whole and processed tires (tire shreds) to generate approximately 26 MW of electricity. The Permittee is a major stationary source of NO_x, and SO_x, and has three active New Source Review (NSR) permits. Emissions units on the premises which have Title V applicable requirements include:

- Two Tire-Derived Fuel (TDF)-fired incinerators/boilers each with reciprocating grates (EU-001 & EU-002), rated at 181 MMBTU/hr each, which are permitted (Permit Nos. 176-0001 & -0002) under the NSR Prevention of Significant Deterioration regulations. The boilers fire propane and shredded or whole tire derived fuels. Air pollution control equipment includes a thermal de-NO_x (selective non-catalytic reduction) system using urea, a wet lime scrubber, and a fabric filter. The units are subject to Area Source Boilers rule, 40 CFR Part 63 Subpart JJJJJ *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*; 40 CFR Part 60 Subpart Db *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* and Subpart E *Standards of Performance for Incinerators*.
- One emergency engine (EU-003) rated at 11.2 MMBTU/hr, which is permitted (Permit No. 176-0003) under the NSR program and a fire pump engine (EU-008) which is operated pursuant to RCSA §22a-174-3b(e). The units fire distillate fuel oil and are subject to 40 CFR Part 63 Subpart ZZZZ - *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.
- Three storage and loading silos (EU-005, EU-006, & EU-007) which store fly ash and lime. These units do not require NSR permits.
- One cooling tower (EU-009).
- One 30,000-gallon tank (EU-010) which stores distillate fuel oil.
- An electric-powered rotary calciner (EU-012) that removes Zinc and Zinc Oxides for recycling from the fly ash. This unit vents to the incinerator and is hence grouped with EU-001 and EU-002.

The Permittee is also subject to 40 CFR Part 60 Subpart Kb *Standards of Performance for Volatile Organic Liquid Storage Vessels*.

The Permittee is subject to the Clean Air Interstate Rule Nitrogen Oxides Ozone Season Trading Program. EU-001 and EU-002 are CAIR NO_x Ozone season units and therefore are subject to RCSA §22a-174-22c.

The Permittee may be subject to 40 CFR Parts 72-78 *Acid Rain Program*. The Department submitted an applicability determination to EPA in March 2006.

Section II: Emissions Units Information

A. EMISSIONS UNITS IDENTIFICATION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
EU-001	Incinerator/boiler w/ reciprocating grates 181 MMBTU/hr, TDF-fired	Urea injection/ thermal de-NO _x system Fabric filter Wet lime scrubber	Permit No. 176-0001 & Permit No.176-0002
EU-002			
EU-012			
EU-003	Rotary Calciner, electrically heated	Vents to EU-001 & EU-002 - refer to those control units	Not Required
EU-005	Emergency engine Cummins, 1100 KTA52DGS 11.2 MMBTU/hr	None	Permit No. 176-0003
EU-006	Silo, lime	Fabric Filter	Not Required
EU-007	Silo, fly ash		
EU-008	Silo, fly ash loading		
EU-009	Fire pump engine Cummins 6BTA 5.9 F1 155 kilowatts	None	RCSA §22a-174-3b(e)
EU-010	Cooling Tower	None	Not Required
EU-011	30,000-gallon storage tank (vertical fixed roof) Distillate fuel oil	None	Not Required
<i>All applicable requirements for the following unit are listed in the premises-wide general requirements portion of this Title V permit:</i>			
EU-011	250-gallon gasoline storage tank (horizontal fixed roof)	None	Not Required

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following scenario without notifying the commissioner, provided that such operations are explicitly provided for and described in Table II.B below. The standard operating scenario is detailed in Table II.B below, of this Title V permit. **There are no Alternate Operating Scenarios for the premises.**

TABLE II.B: STANDARD OPERATING SCENARIO		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
SOS	EU-001, EU-002 & EU-012	The Permittee operates incinerators/boilers firing shredded or whole tire ^[1] , and propane. The calciner, EU-012, is electrically powered. Air pollution control equipment shall be in operation at all times the incinerators/boilers are in operation, except during those periods of startup and shutdown when there are no tires in the incinerator grate.
	EU-003, & EU-008	The Permittee operates an emergency engine and a fire pump engine firing distillate fuel oil.
	EU-005, EU-006 & EU-007	The Permittee operates silos in this SOS.
	EU-009	The Permittee operates a cooling tower in this SOS.
	EU-010	The Permittee stores distillate fuel oil in EU-010.

[1] Shredded or whole tires meet EPA classification as non-waste fuel in a combustion unit in accordance with 40 CFR Part 241-Solid Wastes Used as Fuels or Ingredients in Combustion Units. The combustion units are classified as non-waste fuel boilers subject to 40 CFR Part 63 Subpart JJJJJJ. Under RCSA §22a-174-38, a combustor that burns tires as its principal fuel is classified as reciprocating grate waste tire fired incinerator/boiler.

Section III: Applicable Requirements and Compliance Demonstration

A. PREMISES-WIDE REQUIREMENTS

Table III.A.1, below, contains a summary of premises-wide general applicable requirements and compliance demonstration requirements.

A.1. PREMISES-WIDE GENERAL APPLICABLE REQUIREMENTS

Table III.A.1: Premises-Wide General Applicable Requirements		
Pollutant or Process Parameter	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Annual Emission Statements	RCSA §22a-174-4 & CT SIP	(a) The Permittee shall record annual emissions and submit annual emissions inventory statements to the commissioner pursuant to RCSA §22a-174-4(d)(1) and the CT SIP.
Emergency Episode Procedures	RCSA §22a-174-6	(b) The Permittee shall comply with the procedures for emergency episodes as specified in RCSA §22a-174-6.
Malfunction of Control Equipment; Reporting & Required Continuous Emissions Monitoring (CEM) Equipment for Stationary Sources	RCSA §22a-174-7	<p>(c) Control equipment or methods shall be maintained in operation at all times that the source is in operation or is emitting air pollutants.</p> <p>(d) No person shall deliberately shut down any such control equipment, method or other instrument while the source is in operation except for such necessary maintenance as cannot be accomplished when the stationary source itself is not in operation and is not emitting air pollutants.</p> <p>(e) In the case of breakdown, failure, or deliberate shutdown of any control equipment, method or other instrument during which time the stationary source will be in operation, all reasonable measures shall be taken to assure resumption of control as soon as possible. Due diligence shall be exercised to minimize emissions while the control equipment or method is inoperative. In the event such shutdown of control equipment or methods is expected or may reasonably be expected to continue for longer than 72 hours, and if the source is to be operated at any time during that period, the commissioner shall be notified promptly. Such notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific equipment or instrument taken out, or to be taken out, of service as well as its locations, and where applicable, registration or permit numbers; (2) The expected length of time that the air pollution control equipment or instrument will be out of service; (3) The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and (5) The reasons that it would be impossible or impractical to shut down the stationary source operation during the maintenance period.

Section III: Applicable Requirements and Compliance Demonstration

A. PREMISES-WIDE REQUIREMENTS

A.1 PREMISES-WIDE GENERAL APPLICABLE REQUIREMENTS, CONTINUED

Table III.A.1: Premises-Wide General Applicable Requirements, continued		
Pollutant or Process Parameter	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Prohibition of Air Pollution	RCSA §22a-174-9	<p>(f) No person shall permit or cause air pollution as defined in RCSA §22a-174-1. This applies to air pollutants not otherwise covered by RCSA §§22a-174-1 through 22a-174-100.</p> <p>(g) The Permittee shall operate the premises in accordance with all applicable emissions standards, standards of performance, and any other applicable requirements under 40 CFR Part 60 Standards of Performance of New Stationary Sources, or Part 61, National Emission Standards for Hazardous Air Pollutants, as from time to time may be amended, which the Administrator has delegated to the commissioner and which delegation the commissioner has accepted.</p>
Public Availability of Information	RCSA §22a-174-10	(h) The public availability of information shall apply to the Permittee, as specified in RCSA §22a-174-10.
Prohibition Against Concealment/ Circumvention	RCSA §22a-174-11	(i) The Permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA §22a-174-11.
Severability	RCSA §22a-174-15	(j) Severability shall be applied as specified in RCSA §22a-174-15.
Opacity	RCSA §22a-174-18(b)(1)	<p>The Permittee shall not permit visible emissions to exceed the following limitations:</p> <p>(k) 20% during any six-minute block average as measured by 40 CFR Part 60, Reference Method 9, Appendix A; or</p> <p>(l) 40% as measured by 40 CFR Part 60, Reference Method 9, Appendix A, reduced to a one-minute block average.</p> <p><u>Record Keeping Requirements</u> The Permittee shall maintain records of the dates, times, and places of all visible emission observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results. [RCSA §22a-174-4(c)(1)]</p>
Fugitive Dust	RCSA §22a-174-18(c)	(m) The Permittee shall take all reasonable precautions to prevent particulate matter from becoming airborne pursuant to RCSA §22a-174-18(c).

Section III: Applicable Requirements and Compliance Demonstration

Table III.A.1: Premises-Wide General Applicable Requirements

Pollutant or Process Parameter	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Sulfur in Fuel	RCSA §22a-174-19(a)(2) CGS §16a-21a	<p>(n) Not to exceed to 1.0% sulfur by weight (dry basis) in non-distillate oil fuel and 0.30% sulfur by weight (dry basis) in distillate oil fuel unless otherwise specified in this Title V permit.</p> <p>(1) <u>Monitoring and Testing Requirements</u> The Permittee shall monitor fuel merchant certifications from the fuel supplier certifying the type of fuel, the weight percent of sulfur (dry basis) in the fuel, name of fuel supplier, and the method used to determine the sulfur content of fuel for each shipment of liquid fuel. [RCSA §22a-174-4(d)(1)] Analysis for sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials methods D 129 or D 1552. [RCSA §22a-174-5(b)(1)]</p> <p>(2) <u>Record Keeping Requirements</u> The Permittee shall maintain records of fuel merchant certifications from the fuel supplier certifying the type of fuel, the weight percent of sulfur (dry basis) in the fuel, name of fuel supplier, and the method used to determine the sulfur content of fuel for each shipment of liquid fuel. [RCSA §§22a-174-4(d)(1) & 22a-174-19(a)(5)]</p>
Emissions Fees	RCSA §22a-174-26	(o) The Permittee shall be subject to payment of emissions fees in accordance with RCSA §22a-174-26.
Accidental Release Requirements	40 CFR Part 68	(p) Should the Permittee become subject to the regulations for Accidental Release, as defined in 40 CFR §68.3, then the Permittee shall submit a risk management plan by the date specified in 40 CFR §68.10 and shall certify compliance with the requirements of 40 CFR Part 68 as part of the annual compliance certification as required by 40 CFR §70.6(c).

Section III: Applicable Requirements and Compliance Demonstration

Table III.A.1: Premises-Wide General Applicable Requirements		
Pollutant or Process Parameter	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Asbestos Requirements	40 CFR Part 61 Subpart M	<p>(q) Should the Permittee become subject to 40 CFR Part 61 Subpart M National Emission Standards for Asbestos, when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.</p>
HAP (Federal)	Permit Nos. 176-0001 & 176-0002	<p>(r) The Permittee shall not emit more than 10 tons of any individual HAP or 25 tons of any combination of HAP, on an annual basis, listed in Section 112(b) of the Clean Air Act Amendments of 1990 at this premises.</p> <p>(1) <u>Monitoring and Testing Requirements</u> The Permittee shall calculate monthly and annual actual HAP emissions by calculating the emission rates using the latest edition of AP-42, manufacturer’s recommended emission factors, or stack testing results. Annual HAP emissions shall be calculated each calendar month by adding the current calendar month’s emissions to those of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-4(d)(1) & Permit Nos. 176-0001 & -0002]</p> <p>(2) <u>Record Keeping Requirements</u> The Permittee shall maintain records of calculations and documentation of HAP emissions for a minimum of five years, commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]</p>

Section III: Applicable Requirements and Compliance Demonstration

A.2. PREMISES-WIDE MONITORING, RECORDING & REPORTING REQUIREMENTS

The following table, Table III.A.2, contains a summary of premises-wide compliance demonstration requirements (monitoring, recording, and reporting requirements) for each identified emissions unit regulated by this Title V permit. Additional compliance demonstration may be required wherever specified in this Title V permit.

Table III.A.2: Premises-Wide Monitoring, Recording & Reporting Requirements	
Applicable Regulatory References/Citations	Compliance Demonstration Requirements
<ul style="list-style-type: none"> ▪ RCSA §22a-174-33(o)(1) ▪ 40 CFR §70.6(a)(3)(iii) 	In accordance with Section VII.E of this Title V permit, the Permittee shall submit to the commissioner on a semi-annual basis (once every six months) a written monitoring report.
RCSA §22a-174-33(o)(1)	Unless otherwise required by this Title V permit, in accordance with Section VII.E of this Title V permit, the Permittee shall verify compliance with the emissions limitations and operation restrictions set forth in Section III of this Title V permit, at a minimum, on a semi-annual basis.
<ul style="list-style-type: none"> ▪ RCSA §22a-174-33(o)(2) ▪ 40 CFR §70.6(a)(3)(ii) 	The Permittee shall maintain records, in accordance with Section VII.F of this Title V permit, of all required monitoring data and supporting information for a minimum of five years commencing on the date such records were created and kept on site at the premises.
<ul style="list-style-type: none"> ▪ RCSA §22a-174-2a(a) ▪ RCSA §22a-174-33(b) ▪ 40 CFR §70.6(c)(1) 	The Permittee shall have certified by a responsible official, in accordance with Section VII.B and VII.C of this Title V permit, any report or document required by this Title V permit and any other information submitted to the commissioner or Administrator.
<ul style="list-style-type: none"> ▪ RCSA §22a-174-33(j)(1)(X) ▪ RCSA §22a-174-4(d)(1) 	The Permittee shall provide any records and/or additional information to the commissioner, in accordance with Section VII.D of this Title V permit, within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require.
<ul style="list-style-type: none"> ▪ RCSA §22a-174-4(d)(1) ▪ <i>Connecticut State Implementation Plan (CT SIP) for Air Quality Emission Statements</i> 	The Permittee shall record annual emissions and submit such annual emissions inventory statements to the commissioner once per year.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.1. CEM REPORTING AND ENFORCEMENT MATRIX

TABLE III.B.1: GEU-001, CEM REPORTING AND ENFORCEMENT MATRIX			
Pollutant or Process Parameter	Monitoring CEM Limit/Reporting Triggers	Averaging Period	Monitoring, Record Keeping Reporting & Testing Requirements
NO _x	Greater than: 21.99 lb/hr or 0.12 lb/MMBTU	24-hour block average	The Permittee shall maintain records of CEM data of valid all one-hour block average NO _x emissions concentrations [RCSA §22a-174-38(k)(3)(D)] to be reviewed on a daily basis. The Permittee shall maintain records of all 24-hour daily arithmetic average NO _x emission concentrations. [RCSA §22a-174-38(k)(4)(B)] The Permittee shall report to the commissioner within ten working days any exceedance of the emissions limits. [Permit Nos. 176-0001 & -0002]
	Greater than: 171.6 tpy	12-month rolling average to be calculated at the end of each calendar month	The Permittee shall report to the commissioner any rolling annual emissions exceedances for any month during which the exceedance occurred. [Permit Nos. 176-0001 & -0002]
SO ₂	Greater than: 19.68 lb/hr or 0.109 lb/MMBTU	24-hour geometric average of the hourly arithmetic averages	The Permittee shall maintain records of CEM data of all valid one-hour average SO ₂ emission concentrations [RCSA §22a-174-38(k)(3)(B)] to be reviewed on a daily basis [Permit Nos. 176-0001 & -0002]. The Permittee shall maintain records of all one-hour average SO ₂ reduction efficiency levels. [RCSA §22a-174-38(k)(3)(C)] The Permittee shall maintain records of all 24-hour daily geometric average SO ₂ emission concentrations and all 24-hour daily geometric average percent reductions in SO ₂ . [RCSA §22a-174-38(k)(4)(A)] The Permittee shall report to the commissioner within ten working days any exceedance of the emissions limits. [Permit Nos. 176-0001 & -0002 & RCSA §22a-174-38(l)(6)]
	Greater than: 153.5 tpy	12-month rolling average to be calculated at the end of each calendar month	The Permittee shall report to the commissioner any rolling annual emissions exceedances for any month during which the exceedance occurred. [Permit Nos. 176-0001 & -0002]
CO ₂ ^[2]	None Specified	1-hour average	The Permittee shall maintain and review records on a daily basis. [Permit Nos. 176-0001 & -0002 & RCSA §22a-174-38(l)(6)]
Opacity	Greater than 10%	Any 6-minute block average during steady-state operations; five consecutive 6-minute block averages during startup, shutdown or malfunction	The Permittee shall maintain and review records on a daily basis [Permit Nos. 176-0001 & -0002] of all six-minute arithmetic average opacity levels [RCSA §22a-174-38(k)(3)(A)]. The Permittee shall report within ten working days any exceedance of the emissions limit. [Permit Nos. 176-0001 & -0002 & RCSA §22a-174-38(l)(6)]
	Greater than 40%	1-minute	The Permittee shall report to the commissioner within ten working days any exceedance of the emissions limit. [Permit Nos. 176-0001 & -0002]

^[2] O₂ or CO₂ content in flue gas shall be monitored at each location where CO, SO₂, and NO_x are monitored. [RCSA §22a-174-38(j)(1)]

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B.1: GEU-001, CEM REPORTING AND ENFORCEMENT MATRIX

Pollutant or Process Parameter	Monitoring CEM Limit	Averaging Period	Monitoring, Record Keeping, Reporting and Testing Requirements
CO ^[3]	Greater than: 30.2 lb/hr or 0.167 lb/MMBTU	4-hour block average	The Permittee shall maintain records of all one-hour block CEM data of CO emissions concentrations [RCSA §22a-174-38(k)(3)(E)] to be reviewed on a daily basis [Permit Nos. 176-0001 & -0002]. The Permittee shall maintain records of CEM data of all 4-hour block average CO emissions concentrations. [RCSA §22a-174-38(k)(4)(C)] The Permittee shall report to the commissioner within ten working days any exceedance of the emissions limits. [Permit Nos. 176-0001 & -0002 & RCSA §22a-174-38(k)(6)]
	Greater than: 235.6 tpy	12-month rolling average to be calculated at the end of each calendar month	The Permittee shall report to the commissioner any rolling annual emissions exceedances for any month during which the exceedance occurred. [Permit Nos. 176-0001 & -0002]
Combustion Temperature	Less than or equal to: 1800 °F	1-hour block average	The Permittee shall maintain and review records on a daily basis. [Permit Nos. 176-0001 & -0002] The Permittee shall report to the commissioner within ten working days apparent deviation from the permit condition. [Permit Nos. 176-0001 & -0002]
O ₂ ^[2]	Less than or equal to: 3%	1-hour block average	The Permittee shall maintain and review records on a daily basis. [Permit Nos. 176-0001 & -0002] The Permittee shall report to the commissioner within ten working days apparent deviation from the permit condition. [Permit Nos. 176-0001 & -0002]
Maximum Charge Rate/Heat Input Rate	Greater than: 181 MMBTU/hr as measured by steam production rate, equivalent to 145,000 lb/hr/unit	8-hour block average	The Permittee shall report to the commissioner any 8-hour shift the limit was exceeded during that shift. [Permit Nos. 176-0001 & -0002]

^[2] O₂ or CO₂ content in flue gas shall be monitored at each location where CO, SO₂, and NO_x are monitored. [RCSA §22a-174-38(j)(1)]

^[3] If a loss of boiler water level control or a loss of combustion air control is determined to be a malfunction, the duration of the malfunction period shall be limited to 15 hours per occurrence. [RCSA §22a-174-38(c)(11)]

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B.1: GEU-001, CEM REPORTING AND ENFORCEMENT MATRIX

Pollutant or Process Parameter	Monitoring CEM Limit	Averaging Period	Monitoring, Record Keeping, Reporting and Testing
Final Particulate Matter (PM) Control Device Inlet Temperature	Greater than: 17° centigrade (62.6 °F) above the maximum demonstrated PM control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the emissions limit was achieved	4-hour block arithmetic average	The Permittee shall maintain records of CEM data of all one-hour average particulate matter control inlet temperatures and combustor unit loads to be reviewed on a daily basis. [RCSA §22a-174-38(k)(3)(E)] The Permittee shall maintain records of all 4-hour block arithmetic average inlet temperatures and combustor unit loads. [RCSA §22a-174-38(k)(4)(D)]
Municipal Waste Combustor (MWC) Unit Load ^[7]	Greater than: 110% of the maximum demonstrated MWC unit load, measured during the most recent performance test for dioxin/furan emissions for which compliance with the emissions limit was achieved	4-hour block arithmetic average	The Permittee shall maintain records of CEM data of all one-hour average particulate matter control inlet temperatures and combustor unit loads to be reviewed on a daily basis. [RCSA §22a-174-38(k)(3)(E)] The Permittee shall maintain records of all 4-hour block arithmetic average inlet temperatures and combustor unit loads. [RCSA §22a-174-38(k)(4)(D)]

^[7] Combustor Unit Load is the rate at which steam is produced in lb/hr.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS

1. Compliance Monitoring and CEM Requirements:

- a. The Permittee shall comply with the CEM Reporting and Enforcement requirements for NO_x, SO_x, CO₂, CO, Opacity, Combustion Temperature, O₂ and Fuel Feed Rate summarized in Table III.B.1 of this Title V permit at all times. [Permit Nos. 176-0001 & -0002] In addition to those pollutants and parameters listed in Table III.B.1 above, the following parameters shall also be monitored: steam load, pressure drop across air pollution control equipment, lime injection rate in lb/hour, urea injection rate in gallon/hour, total combined over-fire and under-fire air, reagent stoichiometry, reagent application pressures and reagent flow rates. [Permit Nos. 176-0001 & -0002] All CEM activities, including, but not limited to, calibration tests, averaging times and relative accuracy testing shall be consistent with those specified in the Department's most current CEM guide. [Permit Nos. 176-0001 & -0002 & 40 CFR §70.6(a)(3)(i)(B)]
- b. The continuous monitoring system shall comply with 40 CFR § 63.11224 or promulgated amendments. [40 CFR Part 63 Subpart JJJJJ]
- c. The Permittee shall comply with the following minimum CEM data requirements: [RCSA §22a-174-38(j)(2)]
 - i. Data available for gaseous and process CEMs shall not be less than 90% of the total operating hours in any one calendar quarter and not less than 95% of the total operating hours in any one calendar year; [RCSA §22a-174-38(j)(2)(A)]
 - ii. Data available for opacity CEMs shall not be less than 95% of the total operating hours in any one calendar quarter; [RCSA §22a-174-38(j)(2)(B)]
 - iii. Obtain valid 1-hour averages for at least 75% of the operating hours per day for 90% of the operating days per calendar quarter during which the unit combusts tires; [RCSA §22a-174-38(j)(2)(C)]
 - iv. At least three equally spaced valid data points beginning at the top of each hour shall be used to calculate a one-hour block average; [RCSA §22a-174-38(j)(2)(D)]
 - v. Notify the commissioner according to RCSA §22a-174-38(l)(3)(A)(v) in the event of failure to obtain the minimum data required by RCSA §§22a-174-38(l)(3)(A) and 22a-174-38(l)(3)(B); [RCSA §22a-174-38(j)(2)(E)] and
 - vi. 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; [RCSA §22a-174-38(j)(2)(F)(i)] and
 - (B) Using all data obtained from a CEM to calculate emissions concentrations and percent reductions as required by this section regardless of whether the minimum data availability requirements of RCSA §§22a-174-38(l)(3)(A) and (B) are obtained. [RCSA §22a-174-38(j)(2)(F)(ii)]
- d. During a loss of boiler water level control or a loss of combustion air control malfunction period, a diluents cap of 14% for oxygen or 5% for carbon dioxide may be used in the emissions calculations for sulfur dioxide and nitrogen oxides. [RCSA §22a-174-38(j)(3)]
- e. The Permittee shall prepare a site specific monitoring plan according to the requirements in paragraphs (c)(1) through (3) of 40 CFR §63.11205 or promulgated amendments. [40 CFR Part 63 Subpart JJJJJ]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

2. Record Keeping Requirements:

- a. Records specified in Table III.B.1 and in Subsections B.2 - B.4, Section III of this Title V permit shall be maintained and dated for the calendar month it was generated. Each record shall be maintained for at least five years from the date the record was created. [RCSA §§22a-174-38(k)(1), 22a-174-33(o)(2) & 40 CFR 70.6(a)(3)(ii)]
- b. The Permittee shall maintain records of calendar dates when any of the average emissions concentrations, percent reductions, operating parameters or opacity levels exceed the allowable limits. The reasons for such exceedances, a description of corrective actions taken and a description of the measures taken to prevent future exceedances shall also be recorded. [RCSA §22a-174-38(k)(5)]
- c. The Permittee shall maintain records of calendar dates for which the minimum number of hours of any of the data required by Table III.B.1 and Table III.B.3, Section III of this Title V permit have not been obtained shall be identified, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]
- d. Wherever the Permittee has excluded data from the calculation of average emissions concentrations or parameters for SO₂, NO_x or operational parameters (CO, MWC load, particulate matter control device inlet temperature), then the Permittee shall identify such exclusion of data as well as the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]
- e. The Permittee shall record the results of daily calibrations and quarterly accuracy determinations for opacity, SO₂, NO_x, CO and O₂ or CO₂ continuous emissions monitoring systems. [RCSA §22a-174-38(k)(8)]
- f. The Permittee shall record the test reports and supporting calculations documenting the results of all annual performance tests conducted to determine compliance with the emission limits specified in this section for PM, CO, opacity, cadmium, lead, mercury, dioxin/furan emissions, hydrogen chloride and fugitive ash. The maximum demonstrated MWC unit load and maximum demonstrated particulate matter control device temperature shall be recorded for each performance test for dioxin/furan emissions for each particulate matter control device. The test results and supporting calculations documenting the relationship between CO₂ and O₂ shall be recorded if the relationship is re-established during the annual performance test. [RCSA §22a-174-38(k)(10)]
- g. The Permittee shall maintain records of operator training and certification on an annual basis as follows: [RCSA §22a-174-38(k)(2)]
 - i. 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;
 - ii. The names of the chief operators and shift operators who have completed an operator training course; and
 - iii. The names of the persons at the plant who have completed the training program.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

- h. The Permittee shall maintain the following records of air pollution control device operation [RCSA §22a-174-38(k)(12)]:
 - i. For each reagent, the feed rate to the air pollution control device, measured in kilograms per hour or pounds per hour, during the annual particulate emissions performance tests, with supporting calculations;
 - ii. For each reagent, the feed rate to the air pollution control device measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations; and
 - iii. For each calendar quarter, total reagent usage for each incinerator in kilograms or pounds for each calendar quarter.
- i. The Permittee shall maintain records of daily hours of operation, in which periods of startup and shutdown are distinguished. [RCSA §22a-174-38(k)(13)]
- j. The Permittee shall keep records of the type and amount of all fuels burned in each boiler during the reporting period. [40 CFR §63.11222]
- k. The Permittee shall keep all required records as specified in 40 CFR §63.11225(c) of 40 CFR Part 63 Subpart JJJJJ or promulgated amendments. [40 CFR Part 63 Subpart JJJJJ]

3. Reporting Requirements:

- a. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter in which the data were collected. The first quarterly report shall be submitted within 30 days following the end of the calendar quarter in which the initial performance test is conducted. Each quarterly report shall include the following [RCSA §22a-174-38(l)(2)]:
 - i. All emissions data recorded pursuant to Table III.B.1, Section III, of this Title V permit during the calendar quarter;
 - ii. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameter or opacity levels recorded exceeded the applicable limit identified in this section; the reasons the limit was exceeded and a description of the corrective actions taken; and
 - iii. The data and results of any CEM quality assurance testing conducted.
- b. 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 first annual report shall be submitted no later than January 30 of the first year following the end of the calendar year in which the initial performance test is conducted. Each annual report shall include the following: A summary of data collected for each pollutant regulated under RCSA §22a-174-38 (listed in Table III.B.1) as follows :[RCSA §22a-174-38(l)(3)]
 - i. A list of the PM, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride and fugitive ash emission levels achieved during all initial and annual performance tests.
 - ii. A list of the highest emission level recorded for SO₂, NO_x, CO, MWC unit load and PM control device inlet temperature based on the data recorded for 24-hour daily geometric averages, 24-hour averages, or 4-hour block arithmetic averages, as applicable.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

- iii. The highest six-minute average opacity level measured.
 - iv. The relationship between CO₂ and O₂ if such relationship is re-established, including test results, identification of the units tested and the date and time of each test run, and as necessary, a schedule for making the appropriate modifications to the CEM system to incorporate the equivalent % CO₂ correction factor.
 - v. The total number of days that the minimum number of hours of data for SO₂, NO_x, CO, MWC unit load, and PM control device inlet temperature data were not obtained.
 - vi. The total number of hours that data for SO₂, NO_x, CO, MWC unit load, and PM control device inlet temperature were excluded from the calculation of average emission concentrations or parameters.
 - vii. The information required in this subsection (Subsection B.2.3, Section III), compliance items 'b.i', 'b.ii', and 'b.iii' (above), in this Title V permit for the previous calendar year.
 - viii. The data summaries required by compliance item 'b' (above), Subsection B.2.3, Section III, shall highlight any emissions or parameter levels that did not achieve the emissions or parameter limits specified in Table III.B.1 & Table III.B.3 (or RCSA §22a-174-38(c)).
- c. The Permittee, at least 90 days prior to conducting any performance test, shall submit a performance test plan for review and written approval of the commissioner. Such plan shall contain, at a minimum, the following information [RCSA §22a-174-38(ℓ)(4)]:
- i. Sampling locations;
 - ii. Test methods;
 - iii. Sampling protocols;
 - iv. Sample analysis procedures; and
 - v. Any other information required by the commissioner.
- d. The Permittee shall provide written notification to the commissioner three business days prior to conducting any performance test required. [RCSA §22a-174-38(ℓ)(5)]
- e. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any PM, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, or fugitive ash emissions levels exceed the applicable pollutant emission limits or standards defined in Section III.A, Table III.B.1 and RCSA §22a-174-38(c). [RCSA §22a-174-38(ℓ)(6)] (Note: Any violations which pose an imminent and substantial danger to public health, safety or the environment shall be reported no later than 24 hours after the Permittee learns, or in the exercise of reasonable care should have learned, of such violation in accordance with RCSA §22a-174-33(p)(1)(A)).
- f. The Permittee shall include a certification signed by a responsible corporate officer or a duly authorized representative of such officer such as those defined in RCSA §22a-430-3(b)(2) and by the individual or individuals responsible for actually preparing such document, each of whom 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 each of whom shall certify in writing as follows [RCSA §22a-174-38(ℓ)(7)]:

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

“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 CGS §22a-175, or, in accordance with CGS §§22a-6, 53a-157b, and in accordance with any other applicable statute.”

- g. The Permittee shall submit all reports and notifications required by Subsections B.1 - B.4, Section III, of this Title V permit (RCSA §22a-174-38) on forms furnished or prescribed by the commissioner. [RCSA §22a-174-38(ℓ)(8)]
- h. The Permittee shall submit all reports specified in Subsections B.1 - B.4, Section III, of this Title V permit as a paper copy, with supporting data in either paper or electronic format, postmarked on or before the submittal dates specified in Subsections B.2 and B.2.3, Section III, of this Title V permit and maintain such reports at the premises as a paper copy with any supporting data in the format submitted for a period of five years from the date of submission to the commissioner. [RCSA §22a-174-38(ℓ)(9)]
- i. The Permittee shall submit all required notifications and reports in accordance with 40 CFR §§63.11225 & 63.11226 or promulgated amendments. [40 CFR Part 63 Subpart JJJJJJ]
- j. The Permittee shall submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed and submit, upon request, the energy assessment report. The Permittee shall achieve the energy assessment requirements as specified in Table 2 to 40 CFR Part 63 Subpart JJJJJJ by March 21, 2014 or date as specified in promulgated amendments. [40 CFR §§ 63.11196(a)(3) & 63.11214(c)]

4. Quality Assurance Plan:

- a. The Permittee shall comply with the Quality Assurance Plan approved by the Department which proposed equipment specifications, calibration and operating procedures necessary to monitor these parameters to permit the optimum operation and maintenance of this equipment and to provide a continuous indication of compliance. [Permit Nos. 176-0001 & -0002]

5. Exceedances and Deviations:

- a. Should an exceedance or deviation from any permitted limit or parameter occur, then the Permittee shall notify the commissioner within ten working days of such incident using the Department’s online reporting system. [Permit Nos. 176-0001 & -0002]
- b. The Permittee shall submit to the commissioner written monitoring reports on a semi-annual basis. [RCSA §22a-174-33(o)(1)] Such report shall contain the following:
 - i. The date and description of each deviation caused by upset or control equipment deficiencies, each deviation from a permit requirement, and each violation of a Title V permit requirement that has been monitored by the monitoring systems required under the Title V permit, which has occurred since the date of the last monitoring report; and

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

- ii. The date and description of each occurrence of a failure of the monitoring system to provide reliable data.
- c. Any monitoring report the Permittee submits to the commissioner shall be certified in accordance with RCSA §22a-174-33(b)(4). [RCSA §22a-174-33(o)(2)]
- d. Violations which pose an imminent and substantial danger to public health, safety or the environment shall be reported no later than 24 hours after the Permittee learns, or in the exercise of reasonable care should have learned, of such violation in accordance with RCSA §22a-174-33(p)(1)(A). [RCSA §22a-174-33(p)(1)(A)]

6. Stack Testing:

- a. The Permittee shall conduct all performance testing under representative full load operating conditions. [RCSA §22a-174-38(i)(1)]
- b. The Permittee shall conduct an annual performance test for dioxin/furan, particulate matter, hydrogen chloride, cadmium, lead, mercury, and fugitive ash at least once per calendar year. Such test shall be conducted no less than nine calendar months and no more than 15 calendar months following the previous performance test for such pollutant. [RCSA §22a-174-38(i)(2)]
- c. Should the Permittee demonstrate for two consecutive years that the dioxin/furan emissions (as defined in RCSA §22a-174-38(a)) levels from all units at the premises are less than 15 ng/dscm corrected to 12% CO₂ total mass, then the Permittee shall only be required to conduct performance testing for dioxin/furan on one unit at the premises. [RCSA §22a-174-38(i)(3)] The Permittee shall rotate performance testing among units no more than 12 months following the previous performance test in a fixed sequence so that each unit is tested at the same frequency. [RCSA §22a-174-38(i)(3)]
- d. The Permittee shall perform stack testing for carbon monoxide pursuant to 40 CFR Part 63 Subpart JJJJJ unless EPA promulgates proposed amendments to Subpart JJJJJ or approves a petition under 40 CFR §63.8(f) for an alternative monitoring approach. [Permit Nos. 176-0001 &-0002]
- e. The Permittee shall submit all the related documents from EPA to the Department once EPA approves a petition under 40 CFR §63.8(f) for an alternative monitoring method for CO. [Permit Nos. 176-0001&-0002]
- f. With the exception of CEM for NO_x, SO_x, and CO₂ which shall monitor emissions from each boiler unit individually, all other stack tested parameters may be testing in the common stack venting boiler trains 1 and 2 when both boilers are operating simultaneously. [approved DEEP test protocols and reports based on control train and stack]
- g. The Permittee shall prepare site specific test plan before each stack test. [40 CFR §§63.11212(a) & 63.7(c)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

7. Operating Practices:

- a. The Permittee shall not cause or allow the MWC unit to operate at a temperature, measured at each particulate control device inlet, more than 17° centigrade (62.6 °F), based on a 4-hour arithmetic average, above the maximum demonstrated particulate 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. [RCSA §22a-174-38(g)(1)]
- b. The Permittee shall not cause or allow the MWC unit to operate at a MWC unit load greater than 110% of the maximum demonstrated 4-hour average MWC unit load, based on a 4-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin furan emissions limit was achieved. The MWC unit load shall be measured by a steam flow meter. [RCSA §22a-174-38(g)(2)]
- c. The Permittee may, during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow temperatures in excess of that specified in compliance condition 'a' (above), Subsection B.2.7, Section III and MWC unit load limits in excess of that specified in compliance condition 'b' (above), Subsection B.2.7, Section III. However, should the Permittee operate the unit at such excess temperatures and load, the Permittee shall not again be allowed to operate at such excess temperatures and 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)]
- d. The PM control device temperature limits and the MWC unit load limit may be waived temporarily by the commissioner to allow evaluation of system performance, testing of new technology, or control technologies, or diagnostic testing, provided that any such temporary waiver is authorized through a permit or order issued prior to an evaluation of system performance, testing of new technology, or control technologies or diagnostic testing. [RCSA §22a-174-38(g)(4)]

8. Operator Training and Certification:

- a. The Permittee shall not allow the MWC units to be operated at any time unless a certified chief operator or shift operator is physically present at the premises. [RCSA §22a-174-38(h)(1)]
- b. The operators shall be certified by the commissioner under RCSA §22a-231-1 and shall be identified as either a Class I or Class II chief operator or a Class I or Class II shift operator. [RCSA §22a-174-38(h)(2)]
- c. Not later than six months after the date of employment, all chief operators and shift operators must satisfactorily complete an operator training course conducted by the commissioner. [RCSA §22a-174-38(h)(3)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.2. COMPLIANCE DEMONSTRATION - GENERAL REQUIREMENTS, CONTINUED

- d. The Permittee shall have a site-specific Municipal Waste Combustor Operating & Maintenance Manual with an index. Such manual shall be updated on an annual basis and containing the following elements [RCSA §22a-174-38(h)(4)]:
 - i. A summary of the applicable emissions limits and operational requirements;
 - ii. A description of basic combustion theory applicable to a municipal waste combustor unit;
 - iii. Procedures for receiving, handling and feeding tires;
 - iv. Procedures for startup, shutdown and malfunction;
 - v. Procedures for maintaining proper combustion air supply levels;
 - vi. Procedures for operating the combustor within the emissions standards for NO_x, SO₂, PM, opacity, CO, cadmium, hydrogen chloride, lead, mercury and dioxin/furan;
 - vii. Procedures for responding to periodic upset or off-specification conditions;
 - viii. Procedures for minimizing particulate matter carryover;
 - ix. Procedures for handling ash;
 - x. Procedures for monitoring emissions; and
 - xi. Procedures for reporting and record keeping.

- e. The Permittee shall establish a training program to review the MWC Operating & Maintenance Manual with each person who has responsibilities affecting the operation of the MWC units including but not limited to, the chief operator, shift operator, ash handler, maintenance employee and fuel handler. The Permittee shall train new employees prior to each new employee's assumption of any responsibilities for the MWC. Following initial training, the training program shall be repeated on an annual basis for each person. [RCSA §22a-174-38(h)(5)]

- f. The Operating & Maintenance Manual shall be kept in a location readily accessible to all persons and shall be available for inspection by the commissioner or Administrator upon request. [RCSA §22a-174-38(h)(6)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.3. POLLUTANT AND/OR PROCESS PARAMETERS LIMITATIONS

TABLE III.B.3: GEU-001, POLLUTANT AND/OR PROCESS PARAMETERS LIMITATIONS			
Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
NO _x	Not to exceed: 0.12 lb/MMBTU ^[4] 21.99 lb/hr ^[4] (171.6 tpy) ^[5] 79 ppmvd @ 12% CO ₂ ^[4]	Permit Nos. 176-0001 & 176-0002	B.3.1
SO ₂	Not to exceed: 0.109 lb/MMBTU ^[4] 19.68 lb/hr ^[4] (153.5 tpy) ^[5] 51 ppmvd @ 12% CO ₂ ^[4] or a 75% reduction by weight or volume	Permit Nos. 176-0001 & 176-0002	B.3.2
TSP/PM ₁₀ /PM _{2.5}	Not to exceed: 0.020 lb/MMBTU ^[4] 3.617 lb/hr ^[4] (28.20 tpy) ^[5] 0.010 grain/dscf (23.14 mg/dscm @ 12% CO ₂)	Permit Nos. 176-0001 & 176-0002	B.3.3
Opacity ^[6]	Not to exceed: 10% The opacity limit shall apply at all times including during periods of startup, shutdown, and malfunctioning.	Permit Nos. 176-0001 & 176-0002	B.3.4
CO	Not to exceed: 0.167 lb/MMBTU ^[4] 30.20 lb/hr ^[4] (235.6 tpy) ^[5] 180 ppmvd @ 12% CO ₂ ^[4]	Permit Nos. 176-0001 & 176-0002	B.3.5
VOC	Not to exceed: 0.030 lb/MMBTU ^[4] 6.25 lb/hr ^[4] (48.8 tpy) ^[5] 41 ppmvd @ 12% CO ₂	Permit Nos. 176-0001 & 176-0002	B.3.6
O ₂	A minimum of 3.0% O ₂ in flue gas measured before any air pollution control device	Permit Nos. 176-0001 & 176-0002	B.3.7

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B.3: GEU-001, POLLUTANT AND/OR PROCESS PARAMETERS LIMITATIONS

Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
Combustion Temperature	Greater than 1800 °F at any time tires are in firebox	Permit Nos. 176-0001 & 176-0002	B.3.8
Maximum Charge Rate/Heat Input Rate	Less than or equal to 181 MMBTU/hr demonstrated by not exceeding a maximum steam production rate of 145,000 lb/hour/unit	Permit Nos. 176-0001 & 176-0002	B.3.9
Fugitive Ash	Visible emissions of combustion ash shall not exceed 5% of the observation period	RCSA §22a-174-38(f)(1)	B.3.10
H ₂ SO ₄ HCl Lead (Pb) Dioxin as defined in RCSA §22a-174-1 Dioxin & Furan as defined in RCSA §22a-174-38(a)(6) Mercury (Hg) Cadmium (Cd)	Not to exceed: 0.028 lb/MMBTU ^[4] or the MASC whichever is more stringent 29 ppmv wet HCl @ 12% CO ₂ ^[4] or a minimum of 95% HCl removal efficiency, whichever is least stringent 20.81 µg/ACM (0.0470 mg/dscm @ 12% CO ₂ ^[4]) 55.7 µg/ACM (0.1257 ηg/dscm @ 12% CO ₂ ^[4]) 30 ηg/dscm @ 12% CO ₂ ^[4] 1.7 µg/ACM (0.0038 mg/dscm @ 12% CO ₂ ^[4]) 2.67 µg/ACM (0.0060 mg/dscm @ 12% CO ₂ ^[4])	Permit Nos. 176-0001 & 176-0002	B.3.11

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B.3: GEU-001, POLLUTANT AND/OR PROCESS PARAMETERS LIMITATIONS

Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
State HAP	The Permittee shall demonstrate that the HAP actual stack concentration (ASC) does not exceed the maximum allowable stack concentration (MASC) using the equation in RCSA §22a-174-29(c). Use of the adjustment factor in RCSA §22a-174-29(i) is allowed.	Permit Nos. 176-0001 & 176-0002	B.3.12
Municipal Waste Combustor (MWC) Unit Load ^[7]	Less than or equal to: 110% of the maximum demonstrated MWC unit load, measured as steam production rate during the most recent performance test for dioxin/furan emissions for which compliance with the emissions limit was achieved	RCSA §22a-174-38(g)(2)	B.3.13
Final Particulate Matter (PM) Control Device Inlet Temperature	Less than or equal to: 17° centigrade (62.6° F) above the maximum demonstrated PM control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the emissions limit was achieved	RCSA §22a-174-38(g)(1)	B.3.14
Auxiliary Fuel Consumption Rate	The Permittee shall not exceed 138,000 MMBTU/year total for propane in each boiler.	Permit Nos. 176-0001 & 176-0002	B.3.15
Test Burns- Tire-Derived Fuel Blended with Biomass	The Permittee shall not exceed 60 operating days ^[8] for test burns and shall be completed within 180 days from the initial test burn. Any biomass combustion in the boiler is a test burn. While firing the blend, the biomass portion shall account for 25% or less, weight basis of the total materials charged.	Permit Nos. 176-0001 & 176-0002	B.3.16

^[4] The short-term limits in lb/MMBTU, ppmvd, grains/dscf, µg/ACM, % O₂, and the combustion temperature shall not apply during periods of startup, shutdown, or malfunction but the lb/hr limit shall apply at all times. The short-term limitations will take effect only during steady state, continuous burn operations when the incinerator/boiler is continuously, semi-continuously, or batch fed TDF. The short-term limitation in lb/hr applies to each unit.

^[5] The annual emissions limit in tpy is for both boilers combined.

^[6] The opacity limit shall apply at all times including during periods of startup, shutdown, and malfunctioning. [RCSA §22a-174-38(c)(11)(B)] During each period of startup, shutdown or malfunction, the opacity limits shall not be exceeded during more than five 6-minute arithmetic average measurements.

^[7] Combustor Unit Load is the rate at which steam is produced in lb/hr.

^[8] An operating day is any day during which any biomass is combusted for more than 4 hours.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

1. **NO_x**: Emissions of NO_x shall not exceed those limits stated in Condition B.3.1, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on but not limited to CEM data. Refer to Table III.B.1 of this Title V permit for CEM requirements. Additional requirements are as follows:
 - a. **Monitoring and Testing Requirements**
 - i. NO_x monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 2; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(D)]
2. **SO_x**: Emissions of SO_x shall not exceed those limits stated in Condition B.3.2, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on but not limited to CEM data. Refer to Table III.B.1 of this Title V permit for CEM requirements. Additional requirements are as follows:
 - a. **Monitoring and Testing Requirements**
 - i. SO₂ monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 2; 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(C)]
3. **TSP, PM₁₀/PM_{2.5}**: Emissions of particulate matter shall not exceed those limits stated in Condition B.3.3, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:
 - a. **Monitoring and Testing Requirements**
 - i. The Permittee shall verify compliance with emissions rates from Table III.B.3 of this Title V permit on a semi-annual basis. [RCSA §22a-174-33(o)(1)] The Permittee shall demonstrate compliance by: maintaining good operational practices; meeting the CEM limitations for NO_x, SO₂, opacity, combustion temperature, operating hours, and oxygen content in flue gas; and by maintaining the fabric filter efficiency. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]
 - ii. The Permittee shall perform stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] Emissions shall be measured using the arithmetic average of three 1-hour Method 5 (in Title 40 CFR Part 60) stack tests. [RCSA §22a-174-5(b)(5) & 22a-174-38(i)(4)(A)(v)] The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 +/- 14 degrees centigrade. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 test run for particulate matter required. [RCSA §22a-174-38(i)(4)(A)(iii)]
 - iii. The Permittee shall select sampling site and number of traverse points for particulate matter testing in accordance with Reference Method No. 1, 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(A)(i)]
 - iv. The Permittee shall conduct flue gas analysis for particulate matter testing using Reference Method 3, 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(A)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

- v. The Permittee shall install CEM equipment for PM₁₀/TSP when such CEM equipment acceptable to the commissioner becomes commercially available. Upon receipt of written notice from the commissioner that such CEM is required, the Permittee shall install, maintain and operate the equipment as specified by the commissioner. The Permittee shall ensure all CEM monitoring and recording meet US EPA performance specifications set forth in 40 CFR Part 52, Appendix E. [Permit Nos. 176-0001 & -0002]

b. Record Keeping Requirements

- i. The Permittee shall maintain records of operating parameters listed in compliance item 'a.i' (above), Subsection B.4.3, Section III, of this Title V permit on a daily basis. [Permit Nos. 176-0001 & -0002]

c. Corrective Actions

- ii. In the event TSP emissions exceed the limit stated in Condition B.3.3, Table III.B.3, then the Permittee shall take immediate corrective action to re-attain compliance with the limit. [Permit Nos. 176-0001 & -0002]
- iii. In the event that TSP emissions exceed 0.010 gr/dscf @12% CO₂ but are less than 0.020 gr/dscf then the Permittee shall have an independent consulting firm perform an engineering evaluation identifying a solution to such non-compliance condition. The Permittee shall submit the results of this evaluation to the commissioner within 60 days with an Intent-to-Test (ITT) form for a re-test plan. [Permit Nos. 176-0001 & -0002]
- iv. Should TSP emissions reach or exceed 0.020 gr/dscf @ 12% CO₂, then the Permittee shall cease operating the equipment immediately and shall notify the commissioner. The Permittee shall be allowed to startup the equipment only after the commissioner has been convinced that corrective action has been taken. Upon restarting operation under this circumstance, the Permittee shall demonstrate compliance with the TSP emissions limit to the commissioner's satisfaction. [Permit Nos. 176-0001 & -0002]

4. **Opacity:** Opacity shall not exceed those limits in Condition B.3.4, Table III.B.3, of this Title V permit. Demonstration of compliance shall be based on but not limited to CEM data. Refer to Table III.B.1 of this Title V permit for CEM requirements. Additional requirements are as follows:

a. Monitoring and Testing Requirements

- i. The Permittee shall ensure opacity monitors meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 1; RCSA §22a-174-4; and 40 CFR §60.13. [RCSA §22a-174-38(j)(1)(A)]

5. **CO:** Emissions of CO shall not exceed those limits stated in Condition B.3.5, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on but not limited to CEM data. Refer to Table III.B.1 of this Title V permit for CEM requirements. Additional requirements are as follows:

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

a. Monitoring and Testing Requirements

- i. CO monitors shall meet the applicable performance and quality assurance requirements of 40 CFR Part 60, Appendix B, Performance Specification 4 or 4A (as applicable); 40 CFR Part 60, Appendix F, Procedure 1; and 40 CFR §60.13.
[RCSA §22a-174-38(j)(1)(E)]
- ii. The Permittee shall perform stack testing in accordance with the requirements in Table 4 of 40 CFR Part 63 Subpart JJJJJ or promulgated amendments.
[Permit Nos. 176-0001 & -0002 & 40 CFR §63.11212(b)]
- iii. The Permittee shall perform stack testing for CO unless EPA promulgates applicable amendments to 40 CFR Part 63 Subpart JJJJJ allowing the use of CO CEMS or EPA approves a petition under 40 CFR §63.8(f) for an alternative monitoring approach.
[Permit Nos. 176-0001 & -0002]

6. **VOC:** Emissions of VOC shall not exceed those limits stated in Condition B.3.6, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

- i. The Permittee shall verify compliance with emissions rates from Table III.B.3 of this Title V permit on a semi-annual basis. [RCSA §22a-174-33(o)(1)] The Permittee shall demonstrate compliance by maintaining good operational practices and meeting the CEM limitations for NO_x, SO₂, opacity, combustion temperature, operating hours and oxygen content in flue gas.
[RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]
- ii. The Permittee shall install CEM equipment for VOC when such CEM equipment acceptable to the commissioner becomes commercially available. Upon receipt of written notice from the commissioner that such CEM is required, the Permittee shall install, maintain and operate the equipment as specified by the commissioner. The Permittee shall ensure that all CEM monitoring and recording shall meet US EPA performance specifications set forth in 40 CFR Part 52, Appendix E.
[Permit Nos. 176-0001 & -0002]

b. Record Keeping Requirements

- i. The Permittee shall maintain records of all CEM data on a daily basis.
[Permit Nos. 176-0001 & -0002]

7. **O₂:** Minimum oxygen content in flue gas shall not drop below the limit stated in Condition B.3.7, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on CEM. Refer to Table III.B.1 of this Title V permit for CEM requirements.

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

- 8. Combustion Temperature:** The Permittee shall maintain combustion temperature at a temperature greater than the minimum temperature specified in Condition B.3.8, Table III.B.3 of this Title V permit whenever fires are in the firebox. The Permittee shall demonstrate compliance using CEM data from all combustion chambers. Refer to Table III.B.1 of this Title V permit for CEM requirements.
- 9. Fuel Feed Rate:** The fuel feed rate shall not exceed the limit stated in Condition B.3.9, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on but not limited to CEM data. Refer to Table III.B.1 of this Title V permit for CEM requirements.
- a. Monitoring and Testing Requirements**
- i. Record keeping specified in Section III.B.4.9.b of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]
- b. Record Keeping Requirements**
- i. The Permittee shall keep the following fuel records:
(A) Fuel use and non-waste determinations; [40 CFR§63.11225(c)(2)(ii)] and
(B) Type and amount of all fuels burned in each boiler during reporting period. [40 CFR§63.11222(a)]
- 10. Fugitive Ash:** Visible emissions from fugitive ash shall not exceed the limit stated in Condition B.3.10, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:
- a. Monitoring and Testing Requirements**
- i. The Permittee shall demonstrate compliance by maintaining good operational practices and maintenance of the ash conveying system. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]
- ii. The Permittee shall perform stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] The Permittee shall determine fugitive ash emissions using Reference Method 22, Title 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(I)(i)] The Permittee shall at a minimum make a series of three one-hour observations. The observation period shall include representative operational times when the premises is transferring ash from the MWC unit to the area where ash is stored or loaded into containers or trucks. [RCSA §§22a-174-38(i)(4)(I)(ii) & -38(i)(4)(I)(iii)]
- iii. During maintenance and repair of the ash conveying systems, the Permittee shall take all reasonable measures to control fugitive emissions. [RCSA §22a-174-38(f)(3)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

b. Record Keeping Requirements

The Permittee shall maintain records of all monitoring, maintenance, and test data specified in compliance condition 'a', Subsection B.4.10 (above), Section III, of this Title V permit. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]

11. **HAPs:** Emissions of HAPs shall not exceed those respective limits stated in Condition B.3.11, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

- i. The Permittee shall verify compliance with emissions rates from Condition B.3.11, Table III.B.3 of this Title V permit on a semi-annual basis. [RCSA §22a-174-33(o)(1)] The Permittee shall demonstrate compliance by maintaining good operational practices and meeting the CEM limitations for NO_x, SO₂, opacity, combustion temperature, operating hours, and oxygen content in flue gas. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]
- ii. H₂SO₄: The Permittee shall install CEM equipment for H₂SO₄ when such CEM equipment acceptable to the commissioner becomes commercially available. Upon receipt of written notice from the commissioner that such CEM is required; the Permittee shall install, maintain and operate the equipment as specified by the commissioner. The Permittee shall ensure all CEM monitoring and recording meet US EPA performance specifications set forth in 40 CFR Part 52, Appendix E. [Permit Nos. 176-0001 & -0002]
- iii. Cadmium and Lead: The Permittee shall conduct stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] The Permittee shall measure emissions using Reference Method 29, Title 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(B)(iii)] The Permittee shall use Reference Method 1, 40 CFR Part 60, Appendix A for determining the location and number of sampling points. [RCSA §22a-174-38(i)(4)(B)(i)] The Permittee shall use Reference Method 3 for flue gas analysis. [RCSA §22a-174-38(i)(4)(B)(ii)] The Permittee shall obtain simultaneously with each Method 29 test run an oxygen or carbon dioxide measurement. [RCSA §22a-174-38(i)(4)(B)(iv)] The minimum sample time shall be two hours per each Method 29 test run. [RCSA §22a-174-38(i)(4)(B)(v)] The compliance determinations shall be based on an arithmetic average determined using all data generated in three test runs as required by this section. [RCSA §22a-174-38(i)(4)(B)(vi)]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

- iv. Mercury: The Permittee shall conduct stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] The Permittee shall measure emissions using Reference Method 29, Title 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(C)(iii)] The Permittee shall use Reference Method 1, 40 CFR Part 60, Appendix A for determining the location and number of sampling points. [RCSA §22a-174-38(i)(4)(C)(i)] The Permittee shall use Reference Method 3 for flue gas analysis. [RCSA §22a-174-38(i)(4)(C)(ii)] The Permittee shall obtain simultaneously with each Method 29 test run an oxygen or carbon dioxide measurement. [RCSA §22a-174-38(i)(4)(C)(iii)] The minimum sample time shall be two hours per each Method 29 test run. [RCSA §22a-174-38(i)(4)(C)(iv)] The compliance determinations shall be based on an arithmetic average determined using all data generated in three test runs as required by this section. [RCSA §22a-174-38(i)(4)(C)(vi)] The percent reduction in the potential mercury emissions (%P_{Hg}) is computed using the following equation:

$$\%P_{Hg} = \left| \frac{E_i - E_o}{E_i} \right| \times 100\%$$

Where,

- % P_{Hg} = Percent reduction of the potential mercury emissions achieved
E_i = Potential mercury emissions concentration measured at the control device inlet, corrected to 12% CO₂ dry basis
E_o = Controlled mercury emission concentration measured at the control device outlet, corrected to 12% CO₂ dry basis

- v. Hydrogen Chloride: The Permittee shall conduct stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] The Permittee shall measure emissions using Reference Method 26 or Method 26A, Title 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(G)(i)] The minimum sampling time for Method 26 shall be one hour. [RCSA §22a-174-38(i)(4)(G)(i)] The Permittee shall obtain simultaneously with each Method 26 test run an oxygen or carbon dioxide measurement. [RCSA §22a-174-38(i)(4)(G)(ii)] The compliance determinations shall be based on an arithmetic average determined using all data generated in three test runs as required by this section. [RCSA §22a-174-38(i)(4)(G)(iv)] The percent reduction in potential hydrogen chloride emissions (%P_{HCl}) shall be computed using the following equation:

$$\%P_{HCl} = \left| \frac{E_i - E_o}{E_i} \right| \times 100\%$$

Where,

- % P_{HCl} = Percent reduction of the potential hydrogen chloride emissions achieved
E_i = Potential hydrogen chloride emissions concentration measured at the control device inlet, corrected to 12% CO₂ dry basis
E_o = Controlled hydrogen chloride emission concentration measured at the control device outlet, corrected to 12% CO₂ dry basis

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

- vi. Dioxin/Furan: The Permittee shall conduct stack testing no more than 12 calendar months following the previous performance test. [RCSA §22a-174-38(i)(2)] The Permittee shall measure emission concentration using Reference Method 23, Title 40 CFR Part 60, Appendix A. [RCSA §22a-174-38(i)(4)(H)(iii)] The Permittee shall use Reference Method 1, 40 CFR Part 60, Appendix A for determining the location and number of sampling points. [RCSA §22a-174-38(i)(4)(H)(i)] The Permittee shall use Reference Method 3 for flue gas analysis. [RCSA §22a-174-38(i)(4)(H)(ii)] The Permittee shall obtain simultaneously with each Method 23 test run an oxygen or carbon dioxide measurement. [RCSA §22a-174-38(i)(4)(H)(v)] The minimum sample time shall be four hours per each Method 23 test run. [RCSA §22a-174-38(i)(4)(H)(iv)] The compliance determinations shall be based on an arithmetic average determined using all data generated in three test runs. [RCSA §22a-174-38(i)(4)(H)(vi)]

b. Record Keeping Requirements

- i. The Permittee shall record all CEM data on a daily basis. [Permit Nos. 176-0001 &- 0002]
- ii. The Permittee shall maintain records of all monitoring and testing requirements specified in compliance items ‘a.i’ - ‘a.vi’ (above), Subsection B.4.11, Section III, of this Title V permit. Such records shall be maintained onsite for a minimum of five years. [RCSA §§22a-174-38(k)(1), 22a-174-33(o)(2) & 40 CFR §70.6(a)(3)(ii)]

12. State HAPs: shall not exceed the limit stated in Condition B.3.12, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring & Record Keeping Requirements

- i. The Permittee shall demonstrate compliance by maintaining good operational practices and meeting the CEM limitations for NO_x, SO₂, opacity, combustion temperature, operating hours, and oxygen content in flue gas. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]

13. MWC Unit Load: Refer to “*Operating Practices*” Subsection B.2.7, Section III of this Title V permit.

14. PM Control Device Inlet Temperature: Refer to “*Operating Practices*” Subsection B.2.7, Section III of this Title V permit.

15. Auxiliary Fuel Consumption Rate: The Permittee shall not exceed the limit stated in Condition B.3.15, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring & Record Keeping Requirements

- i. The Permittee shall monitor auxiliary fuel consumption and maintain records of such on a daily and monthly basis. [Permit Nos. 176-0001 & -0002]

Section III: Applicable Requirements and Compliance Demonstration

B. GEU-001 (INCINERATORS/BOILERS PLUS CALCINER)

B.4. COMPLIANCE DEMONSTRATION – POLLUTANT/PARAMETER SPECIFIC, CONTINUED

16. Test Burns: The Permittee shall not exceed the limit stated in Condition B.3.16, Table III.B.3 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Record Keeping requirements

- i. The Permittee shall keep records of the following: [Permit Nos. 176-0001 & -0002]
 - (A) Time and date of when the biomass^[9] is burned;
 - (B) Hours of biomass combustion per day;
 - (C) Type and source of biomass burned; and
 - (D) Composition in weight percent of the biomass-TDF blend

b. Reporting Requirements

- i. The Permittee shall provide written notice to the Department, at least 30 days prior to delivery of such fuel to the facility that includes the proposed proportions of biomass to be combusted with tire-derived fuel and any changes in the operating parameters that may be necessary. [Permit Nos. 176-0001 & -0002]
- ii. The Permittee shall provide written notice to Bureau of Air Management Field Enforcement Section, at least 15 days prior to initial test burn, that includes exact date of initial combustion of the biomass in the boiler. [Permit Nos. 176-0001 & -0002]
- iii. At least 30 days prior to the test burn stack test, the Permittee shall submit an Emissions Test Protocol including an Intent to Test Form to the Department to demonstrate compliance with the allowable emission limitations contained in Table III B.3 of this Title V permit. [Permit Nos. 176-0001 & -0002]
- iv. Within 60 days following completion of the test burn stack test, the Permittee shall submit a report to the Department for its review and approval demonstrating that the biomass blend complies with all allowable emission limits in Table III B.3 of this Title V permit of this Title V permit. [Permit Nos. 176-0001 & -0002]

[9] biomass shall be defined as any combination of the following:

Land Clearing debris: Chipped trees, stumps, branches or brush as defined in RCSA §22a-208a-1.

Recycled wood or clean wood: Recycled wood or clean wood means any wood or wood fuel which is derived from such products or processes as pallets skids, spools, packaging materials, bulky wood waste or scraps from newly built wood products, provided such wood is not treated wood. [CGS §22a-209a][RCSA §22a-208a-1]

Other Clean Wood: Other types if properly sized, clean, uncontaminated wood materials, such as sawdust, chips, bark, tree trimmings or other organic based materials.

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.C.1 EU-003 (EMERGENCY ENGINE)			
Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
Operating Hours	<ul style="list-style-type: none"> i. The Permittee shall operate the emergency engine a maximum of 400 hours per year. ii. The Permittee shall limit the maintenance checks and readiness testing for the emergency engine is limited to 100 hours per year each. [40 CFR §63.6640(f)(1)(ii)] iii. The Permittee may operate the Compression Ignition Engine up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR §63.6640(f)(1)(iii)] 	<p>Permit No. 176-0003</p> <p>40 CFR §63.6640(f)(1)</p>	C.1.3
Work Practices and Maintenance	<ul style="list-style-type: none"> i. The Permittee shall comply with the following requirements: <ul style="list-style-type: none"> (A) Change the oil and filter every 500 hours of operation or annually, whichever comes first; (B) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. ii. During periods of startup, the Permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. iii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. 	<p>40 CFR §63.6603(a), 40 CFR §63.6625 & 40 CFR §63.6665</p>	C.1.4

Section III: Applicable Requirements and Compliance Demonstration

C. EU-003 (EMERGENCY ENGINE)

C.2 COMPLIANCE DEMONSTRATION

1. **NO_x, SO_x, CO, and TSP:** The Permittee shall not exceed the limit stated in Condition C.1.1, Table III.C.1 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

- a. **Monitoring and Testing Requirements**

- i. Record keeping specified in Section III.C.2.1.b of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- b. **Record Keeping Requirements**

- i. The Permittee shall maintain the following records:
 - (A) Monthly and annual actual emissions for each pollutant listed in Table III.C.1. The Permittee shall calculate annual emissions for the emergency engine each calendar month by adding the current calendar month's emissions to those of the previous 11 months; [Permit No. 176-0003]
 - (B) The date, duration, and type of emergency and non-emergency use during which the emergency engine is operated; [RCSA §22a-174-22(l)(1)(A) & Permit No. 176-0003]
 - (C) Records of fuel use and operating hours to determine whether the NO_x emissions from the premises on any day from May 1 to September 30, inclusive, are in excess of 137 pounds; [RCSA §22a-174-22(l)(1)(B)]
 - (D) Monthly and annual records of fuel use and operating hours to determine whether NO_x emissions from such premises in any calendar year are in excess of 25 tpy; [RCSA §22a-174-22(l)(1)(C)]
 - (E) Procedures for calculating NO_x emission rates; [RCSA §22a-174-22(l)(1)(G)]
 - (F) Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)]
 - (G) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22; [RCSA §22a-174-22(l)(1)(E)] and
 - (H) Documentation of the commissioner's ozone forecast for each day for which EU-003 operated during the ozone season. [RCSA §22a-174-4(d)(1)]

- c. **Reporting Requirements**

- i. On or before April 15 of each year, the Permittee shall submit a report on NO_x emissions on a form provided by the commissioner. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

C. EU-003 (EMERGENCY ENGINE)

C.2 COMPLIANCE DEMONSTRATION, CONTINUED

2. **No. 2 Fuel Oil:** The Permittee shall not exceed the limit stated in Condition C.1.2, Table III.C.1 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

i. The Permittee shall monitor monthly and annual amounts of fuel consumed.
[Permit No. 176-0003]

b. Record Keeping Requirements

i. The Permittee shall calculate annual fuel consumption each calendar month by adding the current calendar month's fuel consumption to those of the previous 11 months.
[Permit No. 176-0003]

ii. The Permittee shall maintain records of shipping receipts and certifications from the fuel supplier. Such records shall certify: the name of the fuel supplier, type of fuel delivered, API gravity, the percentage of sulfur (by weight, dry basis), and the method used by the fuel supplier to determine the sulfur content of the fuel. [Permit No. 176-0003]

c. Reporting Requirements

i. The Permittee shall submit to the commissioner written monitoring reports as specified in Section VII. E of this permit.

ii. The Permittee shall certify any monitoring report submitted to the commissioner in accordance with RCSA §22a-174-33(b)(4). [RCSA §22a-174-33(o)(2)]

3. **Operating Hours:** The Permittee shall not exceed the limit stated in Condition C.1.3, Table III.C.1 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

i. The emergency engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. [40 CFR §63.6640(f)(1)]

ii. The Permittee shall install non-resettable hour meters, if they are not already installed, for the emergency engine. [40 CFR §63.6625(f)]

b. Record Keeping Requirements

i. The Permittee shall maintain records of monthly and annual operating hours. The Permittee shall calculate annual operating hours each calendar month for the emergency engine by adding the current calendar month's operating hours to those of the previous 11 months. The hours of operation for the emergency engine shall be recorded through the non-resettable hour meter on the engine. [Permit No. 176-0003 & 40 CFR §63.6655(f)]

ii.

Section III: Applicable Requirements and Compliance Demonstration

C. EU-003 (EMERGENCY ENGINE)

C.2 COMPLIANCE DEMONSTRATION, CONTINUED

- iii. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

c. Reporting Requirements

- i. The Permittee shall submit to the commissioner written monitoring reports as specified in Section VII. E of this Title V permit.
- ii. The Permittee shall certify any monitoring report submitted to the commissioner in accordance with RCSA §22a-174-33(b)(4). [RCSA §22a-174-33(o)(2)]

4. **Work Practices and Maintenance Requirements:** The Permittee shall not exceed the limit stated in Condition C.1.4, Table III.C.1 of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

- i. The Permittee shall operate and maintain the emergency engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ Table 6(9)]
- ii. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements of 40 CFR §63.6625(i). [40 CFR §63.6625(i)]

b. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a) (2) & (5)]
- iii. The Permittee shall keep records demonstrating compliance with Section III.C.4.a.i of this Title V permit. [40 CFR §63.6655(d)]

Section III: Applicable Requirements and Compliance Demonstration

C. EU-003 (EMERGENCY ENGINE)

C.2 COMPLIANCE DEMONSTRATION, CONTINUED

- iv. The Permittee shall keep records of the maintenance conducted on the engine order to demonstrate that they were operated and maintained according to the maintenance plan. [40 CFR §63.6655(e)]

c. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements in Section III.C.4.a.i of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. The Permittee shall report each instance it did not meet the applicable requirements in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

Section III: Applicable Requirements and Compliance Demonstration

D. GEU-002 (SILOS)

D.1 APPLICABLE REQUIREMENTS

TABLE III.D.1: GEU-002 (SILOS)				
Pollutants or Process Parameters	Emissions Unit	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
PM ₁₀ /PM _{2.5}	EU-005	36.11 lb/hr	RCSA §22a-174-18(f)(1)	D.1.1
	EU-006	32.37 lb/hr		
	EU-007	29.60 lb/hr		

D.2 COMPLIANCE DEMONSTRATION

1. **PM₁₀/PM_{2.5}:** The Permittee shall not exceed the limits stated in condition D.1.1, Table III.D of this Title V permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

- i. The Permittee shall monitor opacity and dust emissions from the fabric filter system during each silo loading operation. When opacity or visual emissions are detected, the Permittee shall take immediate corrective action.
[RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]
- ii. If required by the commissioner, the Permittee shall conduct stack test using method 5 of 40 CFR Part 60, Appendix A. Such stack tests shall be conducted at such intervals as the commissioner may specify and in such a manner satisfactory to the commissioner. [RCSA §§22a-174-5(e)(1) & -5(e)(2)]

b. Record Keeping Requirements

- i. The Permittee shall maintain records of visual emissions and any corresponding corrective actions taken. [RCSA §22a-174-33(o)(1) & 40 CFR §70.6(a)(3)(iii)]
- ii. The Permittee shall maintain records of fabric filter maintenance, installation, replacement, and removal dates, and test results on a daily basis.
[40 CFR §70.6(a)(3)(iii) & RCSA §22a-174-33(o)(1)]

Section III: Applicable Requirements and Compliance Demonstration

E. EU-008 (FIRE PUMP ENGINE)

E.1 APPLICABLE REQUIREMENTS

TABLE III.E.1: APPLICABLE REQUIREMENTS EU-008			
Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Condition Number
Operation	<ul style="list-style-type: none"> i. The Permittee shall operate the unit for a maximum of 300 hours per year. ii. The Permittee shall limit the maintenance checks and readiness testing for the emergency engine to 100 hours per year each. iii. The Permittee may operate the Compression Ignition Engine up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. 	<p>RCSA §22a-174-3b(e)(2)(C)</p> <p>40 CFR §63.6640(f)(1)</p>	E.1.2
Work Practices and Maintenance	<ul style="list-style-type: none"> i. The Permittee shall comply with the following requirements: <ul style="list-style-type: none"> (A) Change the oil and filter every 500 hours of operation or annually, whichever comes first; (B) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. ii. During periods of startup, the Permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. iii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. 	<p>40 CFR §63.6603(a) & 40 CFR §63.6625(h)</p>	E.1.2
Sulfur Content	<ul style="list-style-type: none"> i. Any nongaseous fuel consumed by the engines shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as on-road fuel that meets sulfur limits set forth in 40 CFR §80.520(a) [not to exceed 15 ppmvd by weight]. 	RCSA §22a-174-3b(e)(2)(C)	E.1.3

Section III: Applicable Requirements and Compliance Demonstration

E. EU-008 (FIRE PUMP ENGINE)

E.2 COMPLIANCE DEMONSTRATION

1. **Operating Hours:** The operation of the Fire Pump engine shall not exceed those limits stated in Condition E.1.1, Table III.E.1 of this Title V permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. **Monitoring and Testing Requirements**

- i. The emergency engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. [40 CFR §63.6640(f)(1)]
- ii. The Permittee shall install non-resettable hour meters, if they are not already installed, for the emergency engine. [40 CFR §63.6625(f)]

b. **Record Keeping Requirements**

- i. The Permittee shall maintain records of monthly and annual operating hours. The Permittee shall calculate annual operating hours each calendar month for the emergency engine by adding the current calendar month's operating hours to those of the previous 11 months. The hours of operation for the emergency engine shall be recorded through the non-resettable hour meter on the engine. [Permit No. 176-0003 & 40 CFR §63.6655(f)]
- ii. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- iii. The Permittee shall maintain records of the information necessary for the commissioner to determine compliance with the requirements set forth in Condition E.1.1, Table III.E.1 of this Title V permit. [RCSA §22a-174-3b(e)(3)]
- iv. The Permittee shall make and maintain records of the hours of operation for each month and each 12-month rolling aggregate. [RCSA §§22a-174-3b(e)(3) & 22a-174-3b(e)(4)]

c. **Reporting Requirements**

- i. The Permittee shall submit to the commissioner written monitoring reports as specified in Section VII. E of this Title V permit.
- ii. The Permittee shall certify any monitoring report submitted to the commissioner in accordance with RCSA §22a-174-33(b)(4). [RCSA §22a-174-33(o)(2)]

2. **Work Practices and Maintenance:** The Permittee shall not exceed the limit stated in Condition E.1.2, Table III.E.1 of this Title V permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

Section III: Applicable Requirements and Compliance Demonstration

E. EU-008 (FIRE PUMP ENGINE)

E.2 COMPLIANCE DEMONSTRATION, CONTINUED

a. Monitoring and Testing Requirements

- i. The Permittee shall operate and maintain the emergency engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63 Subpart ZZZZ Table 6(9)]
- ii. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements of 40 CFR §63.6625(i). [40 CFR §63.6625(i)]

b. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §§63.6655(a) (2) & (5)]
- iii. The Permittee shall keep records demonstrating compliance with Condition E.1.2, Table III.E.1 of this Title V permit. [40 CFR §63.6655(d)]
- iv. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that they were operated and maintained according to the maintenance plan. [40 CFR §63.6655(e)]

c. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements in Section III.C.4.a.i of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. The Permittee shall report each instance it did not meet the applicable requirements in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

Section III: Applicable Requirements and Compliance Demonstration

E. EU-008 (FIRE PUMP ENGINE)

E.2 COMPLIANCE DEMONSTRATION, CONTINUED

3. **Sulfur Content:** The Permittee shall not exceed the limit stated in Condition E.1.3, Table III.E.1 of this Title V permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. **Monitoring and Testing Requirements**

- i. The Permittee shall monitor fuel merchant certifications from the fuel supplier certifying either the type of fuel, the weight percent of sulfur (dry basis) in the fuel, name of fuel supplier, and the method used to determine the sulfur content of fuel; [RCSA §22a-174-4(d)(1)] or certifying that the fuel supplied is “motor vehicle diesel fuel” as defined in 40 CFR §§80.29, 80.500(c), 80.520(a) and (b) for each shipment of liquid fuel. [RCSA §22a-174-3b(e)] Analysis for sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials methods D 129 or D 1552 .[RCSA §22a-174-5(b)(1)]

b. **Record Keeping Requirements**

- i. The Permittee shall maintain records of fuel merchant certifications from the fuel supplier certifying either the type of fuel, the weight percent of sulfur (dry basis) in the fuel, name of fuel supplier, and the method used to determine the sulfur content of fuel for each shipment of liquid fuel; [RCSA §§22a-174-4(d)(1) & 22a-174-19(a)(5)] or certifying that the fuel supplied is “motor vehicle diesel fuel” as defined in 40 CFR §§80.29, 80.500(c), 80.520(a) and (b) for each shipment of liquid fuel. [RCSA §22a-174-3b(e)]

Section III: Applicable Requirements and Compliance Demonstration

F. EU-009 (COOLING TOWER)

F.1 APPLICABLE REQUIREMENTS

Table III.F.1: EU-009 Applicable Requirements			
Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
PM ₁₀ /PM _{2.5}	60.57 lb/hr	RCSA §22a-174-18(f)(1)	F.1.1

F.2 COMPLIANCE DEMONSTRATION

1. PM₁₀/PM_{2.5}: Emissions of PM₁₀/PM_{2.5} shall not exceed those limits in Condition F.1.1, Table III.F.1 of this Title V operating permit. Demonstration of compliance shall be based on the following requirements:

a. Monitoring and Testing Requirements

The Permittee shall verify compliance with emissions rates by maintaining good operating practices for the cooling tower. The Permittee shall exercise care to minimize the following: excessive water flow, excessive airflow, and water bypassing the tower drift eliminators. The Permittee shall visually inspect the cooling tower particularly the drift eliminators on a monthly basis. [RCSA §22a-174-33(j)(1)(K) & 40 CFR §70.6(a)(3)(i)(B)]

b. Record Keeping Requirements

The Permittee shall keep records of maintenance on a daily basis. [RCSA §22a-174-33(o)(1)]

Section III: Applicable Requirements and Compliance Demonstration

G. EU-010 (NO. 2 FUEL OIL STORAGE TANK)

G.1 APPLICABLE REQUIREMENTS

TABLE III.G.1: EU-010 APPLICABLE REQUIREMENTS			
Pollutant or Process Parameter	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Condition Number
Distillate Fuel Oil	True vapor pressure < 15.0 kPa	40 CFR Part 60 Subpart Kb	G.1.1

G.2 COMPLIANCE DEMONSTRATION

1. **Distillate Fuel Oil:** Demonstration of compliance with Condition G.1.1, Table III.G of this Title V permit shall be based on the following requirements:

a. **Record Keeping Requirements**

- i. The Permittee shall maintain a record of tank dimensions. [40 CFR §60.113(d)]
- ii. The Permittee shall maintain records of type of fuel oil stored. [RCSA §22a-174-33(j), & 40 CFR §60.116b(c)]

Section III: Applicable Requirements and Compliance Demonstration

H. CAIR NO_x OZONE SEASON TRADING

EU-001 and EU-002 are CAIR NO_x Ozone season units and therefore are subject to RCSA §22a-174-22c. The unit shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application.

Section IV: Compliance Schedule

Table IV: Compliance Schedule			
Emissions Unit	Applicable Regulation	Steps Required for Achieving Compliance Milestones	Date by which Step is to be Completed
		None at this time.	

Section V: State Enforceable Terms and Conditions

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

- 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 emissions of any substance or combination of substances, which creates or contributes to an odor beyond the property boundary of the premises in accordance with the provisions of RCSA §22a-174-23. Failure to comply with this requirement may result in the assessment of civil penalties and/or the issuance of a State Order.
- D. Noise:** the Permittee shall operate in compliance with the Regulations of Connecticut State Agencies for the control of noise in accordance with RCSA §22a-69-1 through §22a-69-7.4, inclusive.
- E. Hazardous Air Pollutants (HAPs):** the Permittee shall operate in compliance with the Regulations of Connecticut State Agencies for the control of HAPs in accordance with 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 fuel oil or distillate fuel oil that exceeds three-tenths (3/10) of one percent sulfur by weight as set forth in CGS §22a-21a.

Section VI: Permit Shield

In accordance with RCSA §22a-174-33(k), a Permittee complying with the conditions of this Title V permit shall be deemed in compliance with any applicable requirements identified in Table VI below as of the date of issuance. Also, in accordance with RCSA §22a-174-33(k), a Permittee complying with the conditions of this Title V permit shall be deemed exempt from any non-applicable requirements identified below as of the date of issuance.

This Title V permit shall not alter or affect the following:

- A. The provisions of section 303 of the Clean Air Act, including the authority of the Administrator under the Act;
- B. The liability of an owner or operator of a Title V source for any violation of applicable requirements prior to or at the effective date of a Title V permit;
- C. The applicable requirements of the acid rain program under 40 CFR Part 72; and
- D. The ability of the Administrator or commissioner to obtain information from the owner or operator of a Title V source.

TABLE VI: PERMIT SHIELD				
Regulated Pollutants	Emissions Unit	Applicable Requirement or Non-Applicable Requirement Descriptions	Applicable Regulatory References	Applicability
NO PERMIT SHIELD GRANTED				

Section VII: Title V Requirements

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

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)(5):

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

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

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

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:

Section VII: Title V Requirements

- 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)]

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 the permit or to determine compliance with the permit.

In addition, within 15 days of the date the Permittee becomes aware of a change in any information submitted to the commissioner under this Title V permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the Permittee shall submit the changed, corrected, or omitted information to the commissioner.

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;
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

Section VII: Title V Requirements

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 the 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 Subsection D of Section VII of this Title V permit, the Permittee shall notify the commissioner in writing, on forms or using online notification procedures prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

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

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

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

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

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

Section VII: Title V Requirements

with RCSA §§22a-174-33(j)(1)(I) and 22a-174-33(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 under 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 this Title V permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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1. Constitute a modification under 40 CFR Parts 60, 61 or 63; Exceed emissions allowable under this subject Title V permit;
2. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
3. 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. WRITTEN NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2), 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 or her own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182c, 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 the commissioner with satisfactory evidence that the emissions authorized by this Title V permit have been permanently eliminated.

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

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