

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

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

Title V Permit Number	043-0032-TV
Client/Sequence/Town/Premises Numbers	562/1/043/12
Date Issued	
Expiration Date	

Corporation:

The Mattabassett District

Premises Location:

245 Main Street, Cromwell, Connecticut 06416

Name of Responsible Official and Title:

Arthur G. Simonian, Executive Director

All the following attached pages, 2 through 46, are hereby incorporated by reference into this Title V permit.

Katherine S. Dykes
Commissioner

Date

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

LIST OF ABBREVIATIONS/ACRONYMS

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<i>Abbreviation/Acronym</i>	<i>Description</i>
°F	Degree Fahrenheit
As	Arsenic
Be	Beryllium
bhp	Brake Horsepower
Cd	Cadmium
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CI	Compression Ignition
CO	Carbon Monoxide
Cr	Chromium
Cu	Copper
DEEP	Department of Energy and Environmental Protection
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Unit
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
HCl	Hydrogen Chloride
Hg	Mercury
hr	Hour
ICE	Internal Combustion Engine
in. H ₂ O	Inches of Water
lb	Pound
mg	Milligram
MMBtu	Million British Thermal Units
MMft ³	Million Cubic Feet
Mn	Manganese
MRC	Maximum Rated Capacity
Ni	Nickel
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
pH	Potential Hydrogen
Pb	Lead
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
PM _{2.5}	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry

LIST OF ABBREVIATIONS/ACRONYMS, continued

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<i>Abbreviation/Acronym</i>	<i>Description</i>
RCSA	Regulations of Connecticut State Agencies
RICE	Reciprocating Internal Combustion Engine
Se	Selenium
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
SSI	Sewage Sludge Incinerator
THC	Total Hydrocarbons
TPH	Tons per hour
tpy	Tons per year
VOC	Volatile Organic Compound
WESP	Wet Electrostatic Precipitator
Zn	Zinc

Section I: Premises Information/Description

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A. PREMISES INFORMATION

Nature of Business: Water Pollution Control Facility
Primary SIC: 4952
Facility Mailing Address: 245 Main Street, Cromwell, CT 06416
Telephone Number: 860-635-5550

B. PREMISES DESCRIPTION

The Mattabassett District operates a water pollution control facility. The wastewater treatment processes at the facility include primary screening, grit removal, primary settling, aeration, secondary clarification, disinfection, sludge storage and receiving, sludge dewatering, solids incineration, and ash landfilling.

A 1.5 ton per hour Infilco Degremont fluidized bed sewage sludge incinerator (EU-12) operates in accordance with Permit No. 043-0030 and is subject to:

- CGS §22a-191a – Mercury emissions testing program
- 40 CFR Part 60 Subpart O – Standards of Performance for Sewage Treatment Plants
- 40 CFR Part 60 Subpart LLLL – Standards of Performance for New Sewage Sludge Incinerators
- 40 CFR Part 61 Subpart C – National Emission Standards for Beryllium
- 40 CFR Part 61 Subpart E – National Emission Standards for Mercury
- 40 CFR Part 503 Subpart E - Incineration

The Mattabassett District has received approval from EPA for an alternative monitoring procedure under 40 CFR Part 60 Subpart LLLL pursuant to 40 CFR §60.13(h)(3)(i). The Site Specific Monitoring Plan and Request for Alternative Monitoring for NO_x was issued on August 30, 2017.

One diesel engine powered emergency generator (EU-5) operates in accordance with RCSA §22a-174-3b(e). EU-5 is covered under Registration No. 043-0044-R.

There are two non-emergency diesel engine powered generators (EU-10, EU-11) that operate under permit numbers 043-0037 and 043-0038 as GEU-2 and can be used for demand response. The engines were manufactured in September 2006 and constructed in 2007.

The diesel engines are also subject to the following:

- RCSA §22a-174-22f – High daily NO_x emitting units at non-major sources of NO_x (EU-5, EU-10, EU-11)
- 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (EU-10, EU-11)
- 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU-5, EU-10, EU-11)

The Mattabassett District operates a gasoline dispensing operation (GEU-3) and is subject to 40 CFR Part 63 Subpart CCCCC – Gasoline Dispensing Facilities (area sources).

There is one 11 hp Honda gasoline engine/compressor (EU-13) that is subject to 40 CFR part 63 Subpart ZZZZ, which operates as an existing emergency engine.

In addition, the facility includes small natural gas or propane fired boilers and space heaters all of which only have premises-wide general applicable requirements.

The Mattabassett District does not exceed the major source threshold for any pollutants; however, it is a Title V source due to the applicability of 40 CFR Part 60 Subpart LLLL.

The Mattabassett District is a Title V source located in a severe ozone non-attainment area defined in RCSA §22a-174-1(103).

Section II: Emissions Units Information

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A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Registration, or Regulation Number
EU-5	ALCO 12-251C Emergency Engine MRC: 11.8 MMBtu/hr (1,760 bhp) Constructed - 1969 (Sludge Disposal Building)	None	Registration No. 043-0044-R RCSA §22a-174-3b(e) RCSA §22a-174-22f 40 CFR Part 63 Subpart ZZZZ
EU-10/ GEU-2	Cummins KTA50 Diesel G-9 Engine No. 1 MRC: 14.297 MMBtu/hr Constructed - 2007 (Outside Maintenance Building)	None	Permit No. 043-0037 RCSA §22a-174-22f 40 CFR Part 60 Subpart IIII 40 CFR Part 63 Subpart ZZZZ
EU-11/ GEU-2	Cummins KTA50 Diesel G-9 Engine No. 2 MRC: 14.297 MMBtu/hr Constructed - 2007 (Outside Maintenance Building)	None	Permit No. 043-0038 RCSA §22a-174-22f 40 CFR Part 60 Subpart IIII 40 CFR Part 63 Subpart ZZZZ
EU-12	1.5 TPH Infilco Degremont Fluidized Bed Sewage Sludge Incinerator Constructed - 2013 - 2014 (Sludge Disposal Building)	Wet Scrubber Adsorber Wet Electrostatic Precipitator	Permit No. 043-0030 CGS §22a-191a 40 CFR Part 60 Subpart O 40 CFR Part 60 Subpart LLLL 40 CFR Part 61 Subpart C 40 CFR Part 61 Subpart E 40 CFR Part 503 Subpart E
GEU-3	Gasoline Dispensing Facility Constructed – May 1, 2005		40 CFR Part 63 Subpart CCCCC
EU-13	11 hp Honda gasoline engine/compressor Constructed – Before June 6, 2006	None	40 CFR Part 63 Subpart ZZZZ

Section II: Emissions Units Information

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B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenarios (SOS) and Alternative Operating Scenarios (AOS) without notifying the commissioner, provided that such operations are explicitly provided for and described in Table II.B.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
Standard Operating Scenario	EU-5, GEU-2, EU-12, GEU-3, and EU-13	The emissions units operate in accordance with their applicable permit or regulations as listed in Table II.A of this Title V permit.

Section III: Applicable Requirements and Compliance Demonstration

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

A. EMISSIONS UNIT 5 (EU-5) - ALCO 12-251C Emergency Engine

Subject to: Registration No. 043-0044-R; RCSA §22a-174-3b(e); RCSA §22a-174-22f; 40 CFR Part 63 Subpart ZZZZ)

1. Pollutant or Process Parameter

a. *Limitation or Restriction*

- i. The Permittee shall only operate the emergency engine in an emergency as defined in RCSA §22a-174-22e(a)(14). [RCSA §22a-174-22e]
- ii. The Permittee shall not cause or allow the engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate.
[RCSA §22a-174-3b(e)(2)(A); State Only Requirement]

b. *Monitoring Requirements*

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

c. *Record Keeping Requirements*

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

d. *Reporting Requirements*

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

2. Fuel Sulfur Content

a. *Limitation or Restriction*

The Permittee shall comply with the fuel sulfur content fuel requirements of subdivision (2) of subsection (d) of RCSA §22a-174-19b. [RCSA §22a-174-3b(e)(2)(B); State Only Requirement]

b. *Monitoring Requirements*

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

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records for the sulfur content of the fuel combusted and the quantity purchased for combustion in accordance with RCSA §22a-174-19b(g)(3). [RCSA §22a-174-3b(h); State Only Requirement]

d. Reporting Requirements

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

3. RCSA §22a-174-22f Requirements

a. Limitation or Restriction

The owner or operator of an emergency engine shall not operate the emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups" or greater. If, subsequent to the initial forecast of "moderate to unhealthy for sensitive groups" or greater, the forecast is revised to "moderate" or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. An owner or operator of an emergency engine may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine from this subdivision if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA§22a-174-22f(d)(2)]

b. Monitoring Requirements

Record keeping specified in Section III.A.3.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA§22a-174-22f(g)(1)]
- ii. The Permittee shall make and keep records of the date and work performed for repairs, replacement of parts and other maintenance. [RCSA§22a-174-22f(g)(3)(B)]
- iii. The Permittee shall make and keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22f. [RCSA§22a-174-22f(g)(3)(C)]

d. Reporting Requirements

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

4. 40 CFR Part 63 Subpart ZZZZ Requirements

Category: Existing stationary CI RICE > 500 hp located at an area source of HAP emissions

a. Limitation or Restriction

- i. The Permittee shall operate EU-5 in compliance with the emission limitations, operating limitations, and other requirements found in 40 CFR Part 63 Subpart ZZZZ that apply to the Permittee at all times. [40 CFR §63.6605(a)]
- ii. The Permittee shall use fuel in EU-5 with a maximum sulfur content of 15 ppm.
[40 CFR §§63.6604(b) and 1090.305(b)]
- iii. Where applicable, the Permittee shall:
 - (A) Change the oil and filter on the emergency engine every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6603, 40 CFR §63.6640(a); Table 2d, Item 4.a]
 - (1) The Permittee may use an oil analysis program, in order to extend the specified oil change requirements, in accordance with 40 CFR §63.6625(i).
[40 CFR §63.6603, 40 CFR §63.6640(a); Table 2d, Footnote 1]
 - (B) Inspect the air cleaner on the emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR §63.6603, 40 CFR §63.6640(a); Table 2d, Item 4.b]
 - (C) Inspect all hoses and belts on the emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR §63.6603, 40 CFR §63.6640(a); Table 2d, Item 4.c]
 - (D) 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, after which time the non-startup emissions limitations apply.
[40 CFR §63.6625(h)]
 - (E) If EU-5 is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Sections III.A.4.a.iii.(A) – (D) of this Title V permit, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. [40 CFR §63.6603, 40 CFR §63.6640(a); Table 2d, Footnote 2]
 - (F) At all times, operate and maintain EU-5, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.6605(b)]

Section III: Applicable Requirements and Compliance Demonstration

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- (G) Operate and maintain EU-5 according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 CFR §63.6625(e)]

- iv. The Permittee shall operate EU-5 according to the following requirements. If the Permittee does not operate EU-5 in accordance with the following requirements, the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and must meet all of the requirements for non-emergency engines. [40 CFR §63.6640(f)]:
 - (A) The Permittee may operate EU-5 for any combination of the following, for a maximum of 100 hours per calendar year. The 100 hours per year shall be included in the 300 hour per year operating restriction of RCSA §22a-174-3b(e)(C).
 - (1) EU-5 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year.
[40 CFR §63.6640(f)(2)(i)]

b. Monitoring Requirements

The Permittee shall install a non-resettable hour meter on EU-5 [40 CFR §63.6625(f)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the parameters that analyzed as part of the oil analysis program, the results of any such analysis, and the oil changes for the emergency engine.
[40 CFR §63.6625(i)]
- ii. The Permittee shall keep a copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification of Compliance Status submitted. [40 CFR §63.6655(a)(1)]
- iii. The Permittee shall make and keep records of the occurrence and duration of any malfunction in operation. [40 CFR §63.6655(a)(2)]
- iv. The Permittee shall make and keep records of any required performance tests and performance evaluations. [40 CFR §63.6655(a)(3)]
- v. The Permittee shall make and keep records of actions taken during periods of malfunction to minimize emissions 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)(5)]
- vi. The Permittee shall make and keep records to show continuous compliance with each applicable work practice standard in 40 CFR Part 63 Subpart ZZZZ, Table 6.
[40 CFR §63.6655(d)]

Section III: Applicable Requirements and Compliance Demonstration

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- vii. The Permittee shall make and keep records of the maintenance conducted on the emergency engine in order to demonstrate that the engine was operated and maintained according to the Permittee's maintenance plan. [40 CFR §63.6655(e)]
- viii. The Permittee shall make and keep records of the hours of operation that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operations, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is operated for the purpose of a deviation in voltage or frequency, the Permittee shall make and keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for this purpose. [40 CFR §63.6655(f)]
- i. The Permittee shall keep each record:
 - (A) In a form suitable and readily available for expeditious review. [40 CFR §63.6660(a)]
 - (B) For five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]
 - (C) Readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.
[40 CFR §63.6660(c)]
- ii. The Permittee shall maintain records sufficient to determine compliance with the applicable limitations or restrictions in Section III.A.4.a of this Title V permit.
[RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

- i. The Permittee shall report to the Administrator each instance in which a deviation from a work practice standard in Section III.A.4.a of this Title V permit occurs. [40 CFR §63.6640(b)]
- ii. The Permittee shall report any failure to perform the engine's management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR §63.6603, Table 2d, Footnote 2]
- iii. For each deviation from a work practice standard in Section III.A.4.a. of this Title V permit, the Compliance report must contain the following information: [40 CFR §63.6650(d)]:
 - (A) The Company name and address;
 - (B) A statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report;
 - (C) Date of report and beginning and ending dates of the reporting period;
 - (D) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the Permittee during a malfunction to minimize emissions in accordance with Section III.A.4.a.i.(G) of this Title V permit, including actions taken to correct a malfunction;
 - (E) The total operating time of the emergency engine at which the deviation occurred during the reporting period; and

Section III: Applicable Requirements and Compliance Demonstration

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- (F) Information on the number duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.
- iv. The Permittee must report each instance in which the applicable requirements of 40 CFR Part 63 Subpart ZZZZ, Table 8 are not met. [40 CFR §63.6640(e)]
- v. The Permittee must report all deviations as defined in 40 CFR Part 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). [40 CFR §63.6650(f)]
- vi. 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 specific by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

B. GROUPED EMISSIONS UNIT 2 (GEU-2) – Two Cummins KTA50 Diesel G-9 Diesel Fired Engines, No. 1 (EU-10) and No. 2 (EU-11)

Subject to: Permit Nos. 043-0037 and 043-0038; RCSA §22a-174-22f; 40 CFR Part 60 Subpart III; 40 CFR Part 63 Subpart ZZZZ (Compliance with 40 CFR Part 63 Subpart ZZZZ shall be demonstrated through compliance with 40 CFR Part 60 Subpart III pursuant to 40 CFR §63.6590(c)(1))

1. Allowable Fuel Use and Operating Limitations

a. Limitation or Restriction

- i. Fuel Type: Ultra-Low Sulfur Distillate (ULSD) [Permit Nos. 043-0037; 043-0038]
- ii. Maximum Fuel Firing Rate per engine (gal/hr): 103.6 [Permit Nos. 043-0037; 043-0038]
- iii. Maximum Gross Heat Input per engine (MMBtu/hr): 14.297 [Permit Nos. 043-0037; 043-0038]
- iv. Maximum Fuel Consumption over any Consecutive 12 Month Period per engine (gal): 31,080 [Permit Nos. 043-0037; 043-0038]
- v. Maximum Fuel Sulfur Content (by weight, dry basis) 0.0015% [Permit Nos. 043-0037; 043-0038]
- vi. The permittee shall conduct an inspection and tune-up of GEU-2 a minimum of once per calendar year. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under this section. The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are not available, according to best available practices.
[RCSA §22a-174-22f(f)(1)]
- vii. The Permittee shall not conduct routine scheduled testing or maintenance of GEU-2 during days when the ambient ozone is forecasted by the commissioner to be unhealthy for sensitive groups to very unhealthy anywhere in Connecticut. [Permit Nos. 043-0037; 043-0038]

(A) The Permittee shall be exempt from the requirements found in Section III.B.1.vii. of this Title V permit if all of the following conditions are met:

- (1) GEU-2 is unattended; and

Section III: Applicable Requirements and Compliance Demonstration

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- (2) the schedule for routine testing or maintenance of GEU-2 is automated and cannot be modified from a remote location; and
- (3) if a Permittee operates more than one emergency engine at the subject premises, the schedule for routine testing or maintenance of all such emergency engines does not call for the routine testing or maintenance of more than one such engine on the same day.

viii. The Permittee shall operate and maintain GEU-2 in accordance with the manufacturer's specifications and written recommendations. [Permit Nos. 043-0037; 043-0038]

b. Monitoring Requirements

- i. The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [Permit Nos. 043-0037; 043-0038]
- ii. Record keeping specified in Section III.B.1.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 043-0037; 043-0038]
- ii. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [Permit Nos. 043-0037; 043-0038]
- iii. The Permittee shall keep records of the inspection and maintenance. The records shall include:
[Permit Nos. 043-0037; 043-0038]
 - (A) The name of the person;
 - (B) The date; and
 - (C) The results or actions.
- iv. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.1.a.ii. and iii. of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

2. Pollutant Emissions

a. Limitation or Restriction

- i. The Permittee shall not cause or allow each engine of GEU-2 to exceed the following emission limits except that the short term emission limits do not apply during periods of startup and shutdown, unless otherwise noted. The emission limits in lb/hr are based on engine size of 1,656 kW. [Permit Nos. 043-0037; 043-0038]
 - (A) PM: 0.54 lb/hr
 - (1) 0.15 g/kW-hr
 - (B) PM₁₀: 0.54 lb/hr
 - (C) PM_{2.5}: 0.54 lb/hr
 - (D) SO₂: 0.027 lb/hr
 - (E) NO_x: 26.29 lb/hr
 - (1) 7.2 g/kW-hr
 - (2) If the actual daily NO_x emissions from either of the engines in GEU-2 exceeds 137 pounds on any day from May 1 to September 30, the requirements of RCSA §22a-174-22e shall apply.
 - (F) CO: 6.36 lb/hr
 - (1) 1.7 g/kW-hr
 - (G) VOC: 0.83 lb/hr
 - (1) 0.23 g/kW-hr
- ii. The Permittee shall not exceed the following 12 consecutive month emissions limits for each engine in GEU-2: [Permit Nos. 043-0037; 043-0038]
 - (A) PM: 0.08 tpy
 - (B) PM₁₀: 0.08 tpy
 - (C) PM_{2.5}: 0.08 tpy
 - (D) SO₂: 0.004 tpy
 - (E) NO_x: 3.94 tpy
 - (F) CO: 0.95 tpy

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- (G) VOC: 0.12 tpy
- iii. Demonstration of compliance with the emission limits in Sections III.B.2.a.i. and ii. of this Title V permit may be met by calculating the emission rates using emission factors from the following sources: [Permit Nos. 043-0037; 043-0038]
 - (A) NOx: EPA Tier I Certification Test Data
 - (B) VOC, CO, PM/PM₁₀/PM_{2.5}: Manufacturer's Specifications
 - (C) SO₂: AP-42, Table 3.4-1
 - (D) The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the emission limits in Sections III.B.2.a.i. and ii. of this Title V permit, as allowed by state or federal statute, law or regulation.
- iv. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the engine. [Permit Nos. 043-0037; 043-0038]

b. Monitoring Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀, PM_{2.5}, SO₂, NOx, VOC, and CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[Permit Nos. 043-0037; 043-0038]
- ii. The Permittee shall make and keep the following records:
[Permit Nos. 043-0037; 043-0038; RCSA 22a-174-22f(g)(2)]
 - (A) During the period from May 1 to September 30, inclusive, records sufficient to determine the NOx emissions (lb) per day;
 - (B) A calculation of NOx emissions on each day of operation, performed no later than the last day of each month for every day of operation of the preceding month;
 - (C) The method used to calculate daily NOx emissions and the information used to determine the NOx emissions rate, chosen from the options listed in RCSA §22a-174-22f(g)(2)(C)(i) – (v);
 - (D) The dated and work performed for repairs, replacements of parts and other maintenance;

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- (E) The date on which GEU-2 is tuned-up, the name, title and affiliation of the person performing the tune-up, and a description of work performed; and
- (F) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22f.

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any malfunction of the engine. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [Permit Nos. 043-0037; 043-0038]
 - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the other dates of such actions and measures.
- ii. If the engine exceeds the daily NO_x emissions thresholds pursuant to RCSA §22a-174-22f(e) (i.e. 137 lb NO_x/day), the Permittee shall submit a notification to the Compliance Analysis and Coordination Unit, Bureau of Air Management, Department of Energy and Environmental Protection. Such notification shall be submitted no later than 60 days after the date on which the daily NO_x emissions threshold was exceeded and shall include the information listed in RCSA §22a-174-22f(h)(1)-(11). [RCSA §22a-174-22f(h)]

3. Opacity

a. Limitation or Restriction

Opacity resulting from operation of each engine in GEU-2 shall not exceed 10% during any six-minute block average or 40% reduced to a one-minute block average; as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [Permit Nos. 043-0037; 043-0038]

b. Monitoring Requirements

Record keeping specified in Section III.B.3.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.3.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

4. Hazardous Air Pollutants

a. Limitation or Restriction

GEU-2 shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29. [State Only Requirement] [Permit Nos. 043-0037; 043-0038]

b. Monitoring Requirements

Record keeping specified in Section III.B.4.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.4.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

5. 40 CFR Part 60 Subpart IIII Requirements

Category: Pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder

a. Limitation or Restriction

i. The Permittee must comply with the following emissions standards. [40 CFR §60.4204(a), Table 1 >560 kW]

(A) HC: 1.3 g/kW-hr

(B) NOx: 9.2 g/kW-hr

(C) CO: 11.4 g/kW-hr

(D) PM: 0.54 g/kW-hr

ii. The Permittee must operate and maintain engines in GEU-2 that achieve the emission standards as required Section III.B.5a.i. of this Title V permit over the entire life of the engine. [40 CFR §60.4206]

iii. The Permittee must demonstrate compliance with the emission standards found in Section III.B.5a.i. of this Title V permit by purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR §60.4211(b)(1)]

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- iv. The Permittee shall meet the fuel requirements found in 40 CFR §60.4207(b).
 - (A) Maximum sulfur content: 15 ppm [40 CFR §1090.305(b)]
 - (B) Must meet one of the following standards:
 - (1) Minimum cetane index of 40; or [40 CFR §1090.305(c)(1)]
 - (2) Maximum aromatic content of 35 volume percent [40 CFR §1090.305(c)(2)]
- ii. The Permittee shall: [40 CFR §60.4211(a)]
 - (A) Operate and maintain GEU-2 according to the manufacturer's emission-related written instructions;
 - (B) Change only those emission-related settings that are permitted by the manufacturer; and
 - (C) Meet the requirements of 40 CFR Parts 89, and/or 1068, as applicable.

b. Monitoring Requirements

Record keeping specified in Section III.B.5.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall comply with the applicable record keeping requirements pursuant to 40 CFR §60.4214.

d. Reporting Requirements

The Permittee shall comply with the applicable reporting requirements pursuant to 40 CFR §60.4214.

C. EMISSIONS UNIT 12 (EU-12) - 1.5 TPH Infilco Degremont Fluidized Bed Sewage Sludge Incinerator **Subject to: Permit No. 043-0030; CGS §22a-191a; 40 CFR Part 60 Subpart O; 40 CFR Part 60 Subpart LLLL; 40 CFR Part 61 Subpart C; 40 CFR Part 61 Subpart E; 40 CFR Part 503 Subpart E**

1. Material Charged

a. Limitation or Restriction

- i. The Permittee shall only charge sewage sludge to this incinerator. [Permit No. 043-0030]
 - (A) For the purposes of this Title V permit, sewage sludge is defined as any solid, semi-solid or liquid residue generated during the treatment of municipal wastewater and/or domestic sewage. Sewage sludge includes, but is not limited to, solids removal during primary, secondary or advanced wastewater treatment; scum; septage; portable toilet pumping; sewage sludge products; fats, oils and grease; and food waste.

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- (B) The Permittee shall not cause or allow any substance which is considered “municipal solid waste”, as defined in 40 CFR §60.51a, or “hazardous waste”, as defined in CGS §22a-115, to be introduced to this unit.
- ii. The Permittee shall not cause or allow the minimum sludge feed to be less than 0.9 dry tons per hour, averaged over a 12 hour block period. [Permit No. 043-0030]
- iii. The Permittee shall not cause or allow the maximum annual charge rate of sludge over any consecutive 12 month period to exceed 13,140 dry tons. [Permit No. 043-0030]
- iv. The Permittee shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained. [Permit No. 043-0030; 40 CFR §60.153(a)(2)]
- v. The Permittee shall not fire sludge in the sewage sludge incinerator if it is likely to adversely affect a threatened or endangered species listed under section 4 of the Endangered Species Act or its designated critical habitat. [40 CFR §503.45(g)]
- b. Monitoring and Testing Requirements*
- i. The Permittee shall install, calibrate, maintain, and operate a flow measuring device which can be used to determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range. [Permit No. 043-0030; 40 CFR §60.153(a)]
- ii. The Permittee shall collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content of the sample shall be determined in accordance with the method specified under 40 CFR §60.154(b)(5), except that the determination of volatile solids, step (3)(b) of the method, shall not be deleted. [Permit No. 043-0030; 40 CFR §60.153(b)(5)]
- c. Record Keeping Requirements*
- i. The Permittee shall make and keep records of the hourly, daily, monthly and consecutive 12 month quantity of sludge combusted. The consecutive 12 month quantity of sludge combusted shall be determined by adding the current month’s quantity to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of each month. [Permit No. 043-0030]
- ii. The Permittee shall make and maintain records of the rate of sludge charged to the incinerator, the measured temperatures of the incinerator, the fuel flow to the incinerator, and the total solids and volatile solids content of the sludge charged to the incinerator. [Permit No. 043-0030; 40 CFR §60.153(c)(3)]
- d. Reporting Requirements*
- The Permittee shall submit additional information in writing, at the commissioner’s request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. Incinerator

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the maximum gross heat input to exceed 25.4 MMBtu/hr. [Permit No. 043-0030]
- ii. The Permittee shall not cause or allow the maximum incinerator sand bed temperature to exceed 1445°F, averaged over a 12 hour block period. [Permit No. 043-0030]
- iii. The Permittee shall not cause or allow the operating combustion temperature for the sewage sludge incinerator to exceed the performance test combustion temperature by more than 20%. [40 CFR §503.45(e)]
- iv. The Permittee shall not cause or allow the daily average reactor bed oxygen when burning sludge to exceed 8.5%, averaged over a 12 hour block period. [Permit No. 043-0030]
- v. The Permittee shall maintain the combustion gas residence/retention time at seven seconds. [Permit No. 043-0030]
- vi. The Permittee shall only allow personnel who have been trained in the proper operation of the incinerator to operate the incinerator. [Permit No. 043-0030]
- vii. The Permittee shall not operate the incinerator unless a fully trained and qualified sewage sludge incinerator operator is accessible, either at the facility or can be at the facility within an hour. [Permit No. 043-0030; 40 CFR §60.4810(a)]
 - (A) The trained and qualified SSI unit operator may operate the sewage sludge incinerator unit directly or be the direct supervisor of one or more other plant personnel who operate the unit. If all qualified SSI unit operators are temporarily not accessible, the Permittee must follow the procedures in 40 CFR §60.4835. [40 CFR §60.4810(a)]
 - (B) If a qualified operator is not at the facility and cannot be at the facility within 1 hour, the Permittee must meet the criteria specified in 40 CFR §60.4835(a) or (b) depending on the length of time the qualified operator is not accessible. [40 CFR §60.4835]
 - (1) When a qualified operator is not accessible for more than 8 hours, EU-12 may be operated for less than 2 weeks by other plant personnel who are familiar with the operation of EU-12 and who have completed a review of the information specified in 40 CFR § 60.4840 within the past 12 months. However, the Permittee must record the period when a qualified operator was not accessible and include this deviation in the annual report as specified under 40 CFR §60.4915(d).
 - (C) When a qualified operator is not accessible for 2 weeks or more, the Permittee must take the two actions that are described in paragraphs 40 CFR §60.4835(b)(1) and (b)(2).
- viii. Operator training and qualification must be obtained through a state-approved program or by completing the requirements included in 40 CFR §60.4810(c). [40 CFR §60.4810(b)]

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- ix. The operator training course must be completed by the date before an employee assumes responsibility for operating the sewage sludge incinerator unit or assumes responsibility for supervising the operation of the sewage sludge incinerator unit. [40 CFR §60.4815]
- x. Operator qualification must be maintained in accordance with 40 CFR §60.4825. [40 CFR §60.4825]
- xi. Any lapsed operator qualification must be renewed in accordance with 40 CFR §60.4830. [40 CFR §60.4830]

b. Monitoring Requirements

- i. The Permittee shall install, calibrate, maintain, and operate a monitoring devices that continuously measures and continuously records the oxygen content in the bed and the incinerator exhaust gas. The oxygen monitor shall be located upstream of any fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of $\pm 5\%$ over its operating range and shall be calibrated according to methods prescribed by the manufacturer at least once each 24-hour operating period. [Permit No. 043-0030; 40 CFR §60.153(b)(2)]
- ii. The Permittee shall install, calibrate, maintain, and continuously operate temperature measuring devices in the bed and outlet of the incinerator. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of ± 5 percent over its operating range. [Permit No. 043-0030; 40 CFR §60.153(b)(3); 40 CFR §503.45(d)]
- iii. The Permittee shall operate and maintain this equipment and all associated control equipment in accordance with the manufacturer's specifications and written recommendations. [Permit No. 043-0030]
- iv. The Permittee shall submit a monitoring plan specifying the ash handling system operating procedures that the Permittee will follow to ensure that the Permittee meet the fugitive emissions limit specified in 40 CFR Part 60 Subpart LLLL, Table 1. [40 CFR §60.4880(d)]
- v. The Permittee shall monitor the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator: [40 CFR §60.4850(f)(1) and (2)]
 - (A) Continuously monitor the sewage sludge feed rate and calculate a daily average for all hours of operation during each 24-hour period. Keep a record of the daily average feed rate, as specified in 40 CFR §60.4910(f)(3)(ii). [40 CFR §60.4850(f)(1)]
 - (B) Take at least one grab sample per day of the sewage sludge fed to the sewage sludge incinerator. If the Permittee takes more than one grab sample in a day, calculate the daily average for the grab samples. Keep a record of the daily average moisture content, as specified in 40 CFR §60.4910(f)(3)(ii). [40 CFR §60.4850(f)(2)]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain all applicable records in accordance with 40 CFR §60.4910(a) through (n). [40 CFR §60.4910]

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- ii. The Permittee shall make and maintain records of the measured oxygen content of the bed and the incinerator exhaust gas. [Permit No. 043-0030; 40 CFR §60.153(c)(2)]
- iii. The Permittee shall maintain a full, legible copy of the manufacturer's specifications and written operations manual on-site at all times. The Permittee shall provide a copy of the manufacturer's specifications and written operations manual upon request of the commissioner or his agent. [Permit No. 043-0030]
- iv. The Permittee must maintain at the facility the documentation of the operator training procedures specified under 40 CFR §60.4910(c)(1) and make the documentation readily accessible to all sewage sludge incinerator unit operators. [40 CFR §60.4840(a)]
- v. The Permittee must establish a program for reviewing the information listed in 40 CFR §60.4910(c)(1) with each qualified incinerator operator and other plant personnel who may operate the unit according to the provisions of 40 CFR §60.4835(a), according to the following schedule: [40 CFR §60.4840(b)]
 - (A) The initial review of the information listed in 40 CFR §60.4910(c)(1) must be conducted within six months after the effective date of this subpart or prior to an employee's assumption of responsibilities for operation of the sewage sludge incinerator unit, whichever date is later.
 - (B) Subsequent annual reviews of the information listed in 40 CFR §60.4910(c)(1) must be conducted no later than 12 months following the previous review.
- vi. The Permittee shall make and keep records of operating training in accordance with 40 CFR §60.4910(c). The Permittee must make available and readily accessible at the facility at all times for all sewage sludge incinerator unit operators the documentation specified in 40 CFR §60.4910(c)(1). [40 CFR §60.4910(c)]
- vii. The Permittee shall make and keep all documentation produced as a result of the siting requirements of 40 CFR §§60.4800 and 60.4805. [40 CFR §60.4910(b)]

d. Reporting Requirements

If all qualified operators are not accessible for two weeks or more, the Permittee must take the two actions in paragraphs (f)(1)(i) and (f)(1)(ii) of 40 CFR §60.4915. [40 CFR §60.4915(f)]

3. Auxiliary Heating Systems

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the maximum fuel consumption over any consecutive 12 month period to exceed: [Permit No. 043-0030]
 - (A) 54 MMft³ for natural gas
 - (B) 225,000 gallons for No. 2 fuel oil

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- ii. The Permittee shall not cause or allow the total auxiliary heat input, using the preheat burner and direct injection combined, to exceed 17 MMBtu/hr for any combination of natural gas and No. 2 fuel oil. [Permit No. 043-0030]
- iii. The Permittee may introduce fuels other than No. 2 fuel oil and natural gas as auxiliary fuel subject to approval from the Connecticut Department of Energy and Environmental Protection, Bureau of Air Management. [Permit No. 043-0030]

b. Monitoring Requirements

For each fuel, the Permittee shall install, calibrate, maintain, and operate a device for measuring the fuel flow to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of $\pm 5\%$ over its operating range. [Permit No. 043-0030; 40 CFR §60.153(b)(4)]

c. Record Keeping Requirements

The Permittee shall make and keep records of the daily, monthly and consecutive 12 month auxiliary fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of each month. [Permit No. 043-0030]

d. Reporting Requirements

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

4. Control Equipment

a. Limitation or Restriction

- i. The Permittee shall maintain the wet scrubber scrubber/quench water (total vessel) flow rate range: [Permit No. 043-0030]
 - (A) Scrubber: 417 – 475 gpm
 - (B) Quench: 99 – 132 gpm
- ii. The Permittee shall not cause or allow the wet scrubber minimum pressure drop to be less than: [Permit No. 043-0030]
 - (A) 28 inches of water; or
 - (B) 30% less than the average pressure drop measured during the most recent performance test (measured during each period of 15 minutes duration or more); whichever is less.
- iii. The Permittee shall maintain the adsorber: [Permit No. 043-0030]
 - (A) Inlet gas temperature range: 100 - 150°F

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- (B) Pressure drop range: 7 – 11 in. H₂O
- iv. The Permittee shall establish:
 - (A) The minimum combustion chamber operating temperature; and
[Permit No. 043-0030; 40 CFR §60.4850(a)]
 - (B) All applicable operating limits for the scrubber and Wet Electrostatic Precipitator (WESP) as specified in 40 CFR §60.4870. These limits shall be established during the initial performance test and the established limits shall be included in the performance test report submitted to the Bureau. [Permit No. 043-0030; 40 CFR §60.4870(a)]
- b. *Monitoring Requirements*
 - i. The Permittee shall install, calibrate and maintain the applicable continuous parameter monitoring systems in accordance with 40 CFR §60.4905(a). [40 CFR §60.4905(a)]
 - (A) The Permittee shall operate and maintain the continuous monitoring systems specified in Section III.C.4.a of this Title V Permit according to the monitoring plan required under 40 CFR 40 CFR §60.4880. [40 CFR §60.4905(c)]
 - ii. The Permittee shall install, calibrate, maintain, and operate a monitoring device that continuously measures and continuously records the pressure drop of the gas flow through the scrubber. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to have an accuracy of ± 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions. [Permit No. 043-0030; 40 CFR §60.153(b)(1)]
 - iii. The Permittee shall continuously measure parameters sufficient to determine the moisture content in the sewage sludge incinerator stack exit gas. [Permit No. 043-0030; 40 CFR §503.45(c)]
 - iv. The Permittee shall continuously monitor the applicable parameters as specified in 40 CFR §60.4890(a): [40 CFR §60.4890(a)]
 - (A) The Permittee shall continuously measure the scrubber liquid flow rate and pH.
[Permit No. 043-0030; 40 CFR Part 60 Subpart LLLL, Table 3]
 - (B) The Permittee shall continuously measure the secondary voltage and secondary amperage of the electrostatic precipitator collection plates.
[Permit No. 043-0030; 40 CFR Part 60 Subpart LLLL, Table 3]
 - (C) The Permittee shall measure, hourly, the effluent water flow rate at the outlet of the electrostatic precipitator. [Permit No. 043-0030; 40 CFR Part 60 Subpart LLLL, Table 3]
 - v. Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in Section III.C.4.a of this Title V permit constitutes a deviation from the operating limits, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. The Permittee must submit the deviation report specified in 40 CFR §60.4915(e) for each instance that the Permittee did not meet one of their operating limits. [40 CFR §60.4890(b)]

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- vi. The Permittee shall perform inspections of the control devices as recommended by the manufacturer. [Permit No. 043-0030]
- vii. The Permittee shall properly operate the control equipment at all times that this incinerator is in operation and emitting air pollutants. [Permit No. 043-0030]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the measured pressure drop of the gas flow through the wet scrubber. [Permit No. 043-0030; 40 CFR §60.153(c)(1)]
- ii. The Permittee shall continuously record parameters sufficient to determine the moisture content in the sewage sludge incinerator stack exit gas. [40 CFR §503.45(c)] Such parameters shall be as determined in the EPA approved Site Specific Monitoring Plan and Request for Alternative Monitoring for NO_x, issued on August 30, 2017. [Permit No. 043-0030]
- iii. The Permittee shall continuously record the scrubber liquid flow rate and pH. [Permit No. 043-030; 40 CFR Part 60 Subpart LLLL, Table 3]
- iv. The Permittee shall continuously record the secondary voltage and secondary amperage of the electrostatic precipitator collection plates. [Permit No. 043-0030; 40 CFR Part 60 Subpart LLLL, Table 3]
- v. The Permittee shall record, hourly, the effluent water flow rate at the outlet of the electrostatic precipitator. [Permit No. 043-0030; 40 CFR Part 60 Subpart LLLL, Table 3]
- vi. The Permittee shall make and keep records of the results of initial and annual air pollution control device inspections conducted as specified in 40 CFR §§60.4875 and 60.4900(c), including any required maintenance and any repairs not completed within 10 days of an inspection or the timeframe established by the Administrator. [40 CFR §60.4910(d); 40 CFR §60.4895(b)]
 - (A) Annual inspections of each air pollution control device shall be made no later than 12 months following the previous annual air pollution control device inspection. [40 CFR §60.4895(a)]

d. Reporting Requirements

The Permittee shall submit a semi-annual report to the Administrator. The report should contain the data requested in 40 CFR §60.155(a) and 40 CFR §60.155(b). [Permit No. 043-0030]

5. Allowable Emission Limits

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the emission limits stated herein at any time. [Permit No. 043-0030]

The emission limits and standards apply at all times and during periods of malfunction. The operating limits apply at all times that sewage sludge is in the combustion chamber (*i.e.*, until the sewage sludge feed to the combustor has been cut off for a period of time not less than the sewage sludge incineration residence time). [40 CFR §60.4860]

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- i. Criteria Pollutants [Permit No. 043-0030]
 - (A) PM
 - (1) 0.25 lb/hr
 - (2) 9.6 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (3) 0.16 lb/ton
 - (4) 1.08 tpy
 - (5) 1.3 lb/ton dry sludge input [40 CFR §60.152(a)(1)]
 - (B) PM₁₀
 - (1) 0.25 lb/hr
 - (2) 1.08 tpy
 - (3) 1.3 lb/ton dry sludge input [40 CFR §60.152(a)(1)]
 - (C) PM_{2.5}
 - (1) 0.25 lb/hr
 - (2) 1.08 tpy
 - (3) 1.3 lb/ton dry sludge input [40 CFR §60.152(a)(1)]
 - (D) SO₂
 - (1) 0.36 lb/hr
 - (2) 5.3 ppmvd @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (3) 1.58 tpy
 - (E) NO_x
 - (1) 1.47 lb/hr
 - (2) 30 ppmvd @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (3) 6.44 tpy
 - (F) VOC/THC
 - (1) 1.70 lb/hr

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- (2) 100 ppmvd @ 7% O₂ [40 CFR §503.44(c)]
 - (3) 7.46 tpy
 - (G) CO
 - (1) 0.81 lb/hr
 - (2) 27 ppmvd @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (3) 100 ppmvd @ 7% O₂ [40 CFR §503.40(c)(2)]
 - (4) 3.53 tpy
 - (H) Pb
 - (1) 1.59E-5 lb/hr
 - (2) 6.2E-4 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (3) 6.96E-5 tpy
 - (I) Fugitive emissions from ash handling: Visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) for no more than 5% of the hourly observation period. [40 CFR §60.4845, Table 1]
- ii. Non-Criteria Pollutants [Permit No. 043-0030]
- (A) HCl: 0.24 ppmvd @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (B) Be: 0.022 lb/24 hours [40 CFR §61.32]
 - (C) Cd: 0.0011 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (D) Hg
 - (1) 0.0010 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (2) 7.1 lb/24 hours [40 CFR §61.52(b)]
 - (E) Dioxins/Furans^{1,3}: 1.3E-8 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]
 - (F) Dioxins/Furans^{2,3}: 4.4E-9 mg/dscm @ 7% O₂ [40 CFR §60.4845, Table 1]

¹ Compliance demonstrated on a total mass basis

² Compliance demonstrated on a toxic equivalency basis, using the toxic equivalency factors listed in Table 4 to 40 CFR Part 60 Subpart LLLL

³ Compliance with Dioxin/Furan emissions may be demonstrated on a total mass basis or a toxic equivalency basis [40 CFR Part 60 Subpart LLLL, Table 1]

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- iii. The Permittee shall not cause or allow an exceedance of the Maximum Allowable Stack Concentration for any hazardous air pollutant emitted and listed in RCSA §22a-174-29. [Permit No. 043-0030] [State Only Requirement]
- iv. The Permittee shall not cause or allow the opacity to exceed the following:
 - (A) 10% during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9.
[Permit No. 043-0030]
 - (B) 20% [40 CFR §60.152(a)(2)]
- v. The Permittee shall not cause or allow unburned waste or ash particulate emissions that are individually discernable by the human eye measured using 40 CFR Part 60, Appendix A, Reference Method 9 and 40 CFR Part 60, Appendix A, Reference Method 22. [Permit No. 043-0030]
- vi. The Permittee shall not cause or allow the average daily concentration for lead in the sewage sludge fed to a sewage sludge incinerator to exceed the concentration calculated using Equation 4 of 40 CFR §503.43(c)(1). [40 CFR §503.43(c)]
- vii. The Permittee shall not cause or allow the average daily concentration for arsenic, cadmium, chromium and nickel in the sewage sludge fed to a sewage sludge incinerator to exceed the concentration calculated using Equation 5 of 40 CFR §503.43(d)(1). [40 CFR §503.43(d)]

b. Monitoring and Testing Requirements

- i. The Permittee may demonstrate compliance with the above emission limits by calculating the emission rates using emission factors from the following sources: [Permit No. 043-0030]
 - (A) All Criteria Pollutants, except CO: Most recent stack test
 - (B) NO_x: Most recent stack test and parameter monitoring during sludge feed [EPA approval of a Site Specific Monitoring Plan and Request for Alternative Monitoring for NO_x, Issued on August 30, 2017]
 - (C) CO: CEM
 - (D) Non-Criteria Pollutants: Most recent stack test
- ii. The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. [Permit No. 043-0030]
- iii. The Permittee shall use CEM for the following pollutant/operational parameters and enforced on the following basis: [Permit No. 043-0030]

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(A) CO: 27 ppmvd @ 7% O₂¹ (24 hour block average)

¹ For determining compliance with the carbon concentration limit using carbon monoxide CEM, the correction to 7% O₂ does not apply during startup and shutdown. The Permittee shall use the measured carbon monoxide concentration without correcting for oxygen concentration in averaging with other carbon monoxide concentrations (corrected to 7% O₂) to determine the 24 hour value. [40 CFR Part 60 Subpart LLLL, Table 1]

(B) O₂: 1 hour block average

- iv. The Permittee shall conduct annual performance tests for all pollutants listed below to demonstrate compliance with the emission limits specified in Section III.C.5.a of this Title V permit: [Permit No. 043-0030; CGS §22a-191a(b)]
- (A) PM, PM₁₀, PM_{2.5}, SO₂, NO_x, VOC/HC, Pb; and
- (B) HCl, Be, Hg, Cd, As, Cr, Cu, Mn, Ni, Se, Zn, Dioxin/Furans.
- v. The Permittee shall also perform annual visible emission tests, in accordance with 40 CFR Part 60 Subpart LLLL, Table 1, to ensure that there are no visible emissions of combustion ash from the ash conveying system for more than 5% of the hourly observation period. [Permit No. 043-0030]
- vi. Notwithstanding the Section III.C.5.b.v requirement to conduct annual performance tests, the Permittee shall be allowed to conduct recurrent performance tests for PM, SO_x, NO_x, HCl, and fugitive emissions from ash handling within three years of the previous test in accordance with the requirements of 40 CFR §60.4885(a)(3). [Permit No. 043-0030; 40 CFR §60.4885(a)]
- vii. The Permittee shall comply with the applicable performance testing and monitoring requirements in accordance with 40 CFR §60.4900(a) and (b). [40 CFR §60.4900(a) and (b)]
- viii. The Permittee shall conduct performance tests in accordance with 40 CFR §60.154, 40 CFR §61.33, 40 CFR §503.46(a)(1); 40 CFR §61.53(d), and 40 CFR §60.4885.
- ix. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 043-0030]
- x. The Permittee shall conduct stack emission testing in accordance with the Emission Test Guidelines available on the DEEP website. [Permit No. 043-0030]
- xi. The Permittee shall monitor for arsenic, cadmium, chromium, lead and nickel in the sewage sludge fed to the sewage sludge incinerator at the frequency in 40 CFR §503.46(a)(2), Table 1. [40 CFR §503.46(a)(2)]
- (A) After the sewage sludge has been monitored for two years at the frequency in Table 1 of 40 CFR §503.46, the permitting authority may reduce the frequency of monitoring for arsenic, cadmium, chromium, lead and nickel. [40 CFR §503.46(a)(3)]

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- xii. The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation. [Permit No. 043-0030]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM, PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, and CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 043-0030]
- ii. The Permittee shall make and maintain the following records:
- (A) Carbon monoxide concentration in the incinerator exit gas; [Permit No. 043-0030; 40 CFR §503.40(c)(3)(i)]
- (B) Calibration and maintenance log for the instrument used to measure the carbon monoxide concentration. [Permit No. 043-0030; 40 CFR §503.40(c)(3)(ii)]
- iii. The Permittee shall retain records of beryllium emission test results and other data needed to determine total emissions and make them available for inspection. [40 CFR §61.33(e)]
- iv. The Permittee shall retain records of performance test reports in accordance with 40 CFR §60.4910(e). [40 CFR §60.4910(e)]
- v. The Permittee shall keep a copy of the EPA approved Site Specific Monitoring Plan and Request for Alternative Monitoring for NO_x, as well as a copy of EPA's approval of such plan and request issued on August 30, 2017. [Permit No. 043-0030]
- vi. The Permittee shall develop the following information and retain that information for five years: [40 CFR §503.47(a)]
- (A) The concentration of lead, arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator; [40 CFR §503.47(b)]
- (B) The total hydrocarbons concentrations in the exit gas from the sewage sludge incinerator stack; [40 CFR §503.47(c)]
- (C) Information that indicates the requirements in the National Emission Standard for beryllium in 40 CFR Part 61 Subpart C are met; [40 CFR §503.47(d)]
- (D) Information that indicates the requirements in the National Emission Standard for mercury in 40 CFR Part 61 Subpart E are met; [40 CFR §503.47(e)]
- (E) The operating combustion temperatures for the sewage sludge incinerator; [40 CFR §503.47(f)]
- (F) Values for the air pollution control device operating parameters; [40 CFR §503.47(g)]

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- (G) The oxygen concentration and information used to measure moisture content in the exit gas from the sewage sludge incinerator stack; [40 CFR §503.47(h)]
 - (H) The sewage sludge feed rate; [40 CFR §503.47(i)]
 - (I) The stack height for the sewage sludge incinerator; [40 CFR §503.47(j)]
 - (J) The dispersion factor for the site where the sewage sludge incinerator is located; [40 CFR §503.47(k)]
 - (K) The control efficiency for lead, arsenic, cadmium, chromium, and nickel for each sewage sludge incinerator; [40 CFR §503.47(l)]
 - (L) The risk specific concentration for chromium calculated using Equation 6 of 40 CFR §503.43(d)(2), if applicable; and [40 CFR §503.47(m)]
 - (M) A calibration and maintenance log for the instruments used to measure the oxygen concentration in the exit gas from the sewage sludge incinerator stack, the information needed to determine the moisture content in the exit gas, and the combustion temperatures. [40 CFR §503.47(n)]
- vii. The Permittee shall retain records of continuous monitoring data in accordance with 40 CFR §§60.4910(f) and (g). [40 CFR §§60.4910(f) and (g)]
 - viii. The Permittee shall retain records of deviation reports in accordance with 40 CFR §60.4910(h). [40 CFR §60.4910(h)]
 - ix. The Permittee shall retain records of equipment specifications and related operation and maintenance requirements received from vendors for the incinerator, emission controls, and monitoring equipment. [40 CFR §60.4910(i)]
 - x. The Permittee shall make and keep records of inspections, calibrations, and validation checks of any monitoring devices as required under 40 CFR §§60.4900 and 60.4905. [40 CFR §60.4910(j)]
 - xi. The Permittee shall make and keep records of the monitoring plans required under 40 CFR §60.4880, and records of performance evaluations required under 40 CFR §60.4885(b)(5). [40 CFR §60.4910(k)]
 - xii. The Permittee shall make and keep records of less frequent testing as allowed in 40 CFR §60.4885(a)(3). If the Permittee elects to conduct performance tests less frequently than annually, the Permittee must keep annual records that document that the emissions in the two previous consecutive years were at or below 75 percent of the applicable emission limit in Table 1 of 40 CFR Part 60 Subpart LLLL, and document that there were no changes in source operations or air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past two years. [40 CFR §60.4910(l)]
 - xiii. If a malfunction occurs, the Permittee shall make and keep records of the information submitted in the annual report in 40 CFR §60.4915(d)(16). [40 CFR §60.4910(n)]

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xiv. All records required by 40 CFR Part 60 Subpart LLLL shall include the calendar date of each record and shall be maintained for a period of at least five years. All records must be available on site in either paper copy or computer-readable format that can be printed upon request, unless an alternative format is approved by the Administrator. [40 CFR §60.4910]

d. Reporting Requirements

- i. The Permittee shall submit the monthly average carbon monoxide concentrations in the incinerator exit gas, to the commissioner, on February 19 of each year.
[Permit No. 043-0030; 40 CFR §503.40(c)(4); 40 CFR §503.48]
- ii. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 043-0030]
- iii. The Permittee must submit other notifications as provided by 40 CFR §60.7 and as follows:
[40 CFR §60.4915(h)]
 - (A) Notify the Administrator one month before starting or stopping use of a continuous monitoring system for determining compliance with any emission limit.
 - (B) Notify the Administrator at least 30 days prior to any performance test conducted to comply with the provisions of this subpart, to afford the Administrator the opportunity to have an observer present.
 - (C) As specified in 40 CFR §60.4900(a)(8), notify the Administrator at least seven days prior to the date of a rescheduled performance test for which notification was previously made in 40 CFR §60.4915(h)(2).
- iv. The Permittee shall submit, to the Administrator and commissioner, an annual compliance report that includes the items listed in 40 CFR §§60.4915(d)(1) thru (d)(16).
[Permit No. 043-0030; 40 CFR §60.4915(d)]
- v. The Permittee shall submit a deviation report, to the Administrator and commissioner, documenting any deviations from emission limits, emission standards or operating limits, by August 1, for data collected during the first half of the calendar year; and by February 1 for data collected during the second half of the previous calendar year. [Permit No. 043-0030; 40 CFR 40 CFR §60.4915(e); 40 CFR Part 60 Subpart LLLL, Table 5]
- vi. If the Administrator agrees, the Permittee may change the semi-annual or annual reporting dates. See 40 CFR §60.19(c) for procedures to seek approval to change a reporting date. [40 CFR §60.4915(j)]
- vii. If a force majeure is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee must provide notification in accordance with 40 CFR §60.4915(g). [40 CFR §60.4915(g)]
- viii. The Permittee shall submit reports in the form indicated in 40 CFR §60.4915(i).
[40 CFR §60.4915(i)]

D. GEU-3: GASOLINE DISPENSING FACILITY

Subject to: 40 CFR Part 63 Subpart CCCCCC; Category: Existing source with a gasoline throughput of less than 10,000 gallons per month

1. Pollutant or Process Parameter

a. Limitation or Restriction

- i. The Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: [40 CFR §63.11116(a)]
 - (A) Minimize gasoline spills;
 - (B) Clean up spills as expeditiously as practicable;
 - (C) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and
 - (D) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- ii. The Permittee shall use portable gasoline containers that meet the requirements of 40 CFR Part 59 Subpart F as acceptable compliance with 40 CFR §63.11116(a)(3). [40 CFR §63.11116(d)]

b. Monitoring and Testing Requirements

The Permittee shall, upon request of the Administrator, demonstrate that the monthly throughput is less than the 10,000 gallon threshold level. [40 CFR §63.11111(e)]

c. Record Keeping Requirements

- i. The Permittee must have records available within 24 hours of a request by the Administrator to document the gasoline throughput. [40 CFR §63.11116(b)]
- ii. The Permittee shall keep records to document the monthly throughput. [40 CFR §63.11111(e)]
- iii. The Permittee shall keep the records required by 40 CFR §63.11111(e) for a period of five years. [40 CFR §63.11111(e)]

d. Reporting Requirements

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

E. EU-13: Honda 11 hp Air Compressor

Subject to: 40 CFR Part 63 Subpart ZZZZ, Existing Emergency Spark Ignition Subcategory

a. Limitation or Restriction

- i. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first;
[40 CFR §§63.6603(a) and 63.6640(a); Table 2d, Item 5a]
- ii. Inspect spark plugs every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; and
[40 CFR §§63.6603(a) and 63.6640(a); Table 2d, Item 5b]
- iii. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.
[40 CFR §§63.6603(a) and 63.6640(a); Table 2d, Item 5c]

b. Monitoring and Testing Requirements

- i. The Permittee shall develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- ii. The Permittee shall minimize EU-13 time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading, not to exceed 30 min.
[40 CFR §63.6625(h)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the maintenance conducted on EU-13 in order to demonstrate that they operated and maintained the stationary RICE according to their own maintenance plan.
[40 CFR §63.6655(e)]

d. Reporting Requirements

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

F. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4a(b)(1).
2. **Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.

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3. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
4. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9. **Variations:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B) .
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22f.
18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).

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- 20. Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
- 21. Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

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

Section V: State Enforceable Terms and Conditions

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

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

Any submittal to the Administrator of the Environmental Protection Agency shall be submitted per the procedure required by the applicable requirement or otherwise in a computer-readable format and addressed to: Director, Enforcement and Compliance Assurance Division, U.S. EPA Region I, 5 Post Office Square, Suite 100 (Mailcode: 04-02), Boston, Massachusetts 02109-3912, Attn: Air Compliance Clerk.

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

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

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

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

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

Section VI: Title V Requirements

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manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-

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2a(a)(5) and which includes the information identified in 40 CFR §§70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review

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and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Constitute a modification under 40 CFR Part 60, 61 or 63;
2. Exceed emissions allowable under the subject permit;
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40

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CFR Parts 72 to 78, inclusive; or

4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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

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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.

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Print for Compliance Certification or Enforcement

Click the button below to generate the appropriate checklist. Be aware that this macro does not work unless you have access to the DEEP D-Drive.

This macro takes anywhere from 2-5 minutes to run. Your computer will look like it is locked up but it is working. Unfortunately the new DEEP virtual computer system makes this process even slower. Please be patient.

Print Enforcement Checklist

Print Compliance Certification