Connecticut
Department of Energy &
Environmental Protection

BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT

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

Title V Permit Number	109-0059-TV
Client/Sequence/Town/Premises Numbers	1307/1/109/11
Date Issued	June 18, 2024
Expiration Date	June 18, 2029

Corporation:

Borough of Naugatuck (Owner)
Naugatuck Environmental Technology LLC (Operator)

Premises Location:

Naugatuck Water Pollution Control Facility
500 Cherry Street Ext, Naugatuck, CT 06770

Name of Responsible Official and Title:

James Stewart, Public Works Director
Christopher Makuch, Plant Manager

All the following attached pages, 2 through 82, are hereby incorporated by reference into this Title V permit.

Emma Cimino
Emma Cimino
Deputy Commissioner

June 18, 2024
Date

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Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

Abbreviation/Acronym	*Description*
AST	Aboveground Storage Tank
As	Arsenic
Be	Beryllium
BON	Borough of Naugatuck
Cd	Cadmium
CO	Carbon monoxide
Cr	Chromium
CDX	Central Data Exchange
CFR	Code of Federal Regulations
CEDRI	Compliance and Emissions Data Reporting Interface
CBI	Confidential Business Information
CGS	Connecticut General Statutes
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitor System
COMS	Continuous Opacity Monitoring System
Cu	Copper
^{o}F	Degree Fahrenheit
DEEP	Department of Energy and Environmental Protection
dscm	Dry standard cubic meters
DT	Dry Tons
ERT	Electronic Reporting Tool
EU	Emissions Unit
EPA	Environmental Protection Agency
XML	Extensible Markup Language
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
hr	Hour
HC	Hydrocarbons
HCl	Hydrochloric acid
kW	Kilowatts
Pb	Lead
LPG	Liquefied Petroleum Gas
Mn	Manganese
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
Hg	Mercury
$\mu g/m^3$	Microgams per Cubic Meter
Mg	Milligrams
MMBtu	Million British Thermal Units
MMgal	Million Gallons
MMcf	Million cubic feet
ng	Nanograms
NESHAP	National Emission Standards for Hazardous Air Pollutants

LIST OF ABBREVIATIONS/ACRONYMS, continued

Abbreviation/Acronym	*Description*
NSR	New Source Review
Ni	Nickel
NO_x	Nitrogen Oxides
NERC	North American Electric Reliability Corporation
O & M	Operation and Maintenance
O_2	Oxygen
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 microns
$PM_{2.5}$	Particulate Matter less than 2.5 microns
ppm	Parts per million
ppmvd	Parts per million, volumetric basis dry
pH	Potential of Hydrogen
lb	Pound
POTW	Publicly Owned Treatment Works
RICE	Reciprocating Internal Combustion Engines
RCSA	Regulations of Connecticut State Agencies
RATA	Relative Accuracy Test Audit
Se	Selenium
SSI	Sewage Sludge Incinerator
H_2SO_4	Sulfuric acid
SO_2	Sulfur dioxide
tpy	Tons per year
ULSD	Ultra Low Sulfur Diesel
VOC	Volatile Organic Compounds
WPCF	Water Pollution Control Facility
Zn	Zinc

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business:	Publicly Owned Treatment Works
Primary Standard Industrial Code:	4952
Facility Mailing Address:	Naugatuck Environmental Technology LLC 500 Cherry St. ext Naugatuck, CT 06770
Telephone Number:	203-723-1433

B. PREMISES DESCRIPTION

The Borough of Naugatuck (BON) owns a 10.3 million gallon per day publicly-owned biological treatment works (POTW). The facility processes municipal sanitary and industrial nonhazardous wastewater and is permitted to operate an existing sewage sludge incinerator (SSI). The incinerator, located at the Naugatuck POTW, is operated by Naugatuck Environmental Technologies, LLC under contract with the Borough of Naugatuck. The facility commenced construction on August 15, 1972, and has operated since 1973.

The POTW is a regional facility serving Naugatuck, Middlebury and Oxford, Connecticut. As its standard operating scenario, influent from the area municipal sewerage system is received into the POTW's wet well and pumped into the municipal primaries. The influent is passed on to a single stage biological nitrification system after which the POTW's residuals are collected and stored for incineration while the effluent goes on to disinfection and dichlorination with subsequent discharge to the Naugatuck River. Additionally, the POTW receives sanitary septage and nonhazardous commercial and industrial wastewaters as may be covered under various Connecticut Department of Energy and Environmental Protection (DEEP) permits and authorizations as appropriate to the facility. The plant also processes its own internal recycle streams which include the incinerator wet ash lagoons overflow and belt press filtrate.

The SSI is a Zimpro fluidized bed and is capable of combusting 3.5 dry tons per hour (DT/hr) of sludge. The SSI is equipped with a EnviroCare VenturiPak scrubber system and a GORE scrubber which removes the mercury to below the required mercury discharge limits. The incinerator has a startup burner which is only used when the incinerator is being started up where the incinerator is in a cold state. This is an infrequent occurrence and is only done for inspections/repair of the vessel. A System Control and Data Acquisition System is used to control the incineration system and to historically log operations. Air, sludge feed rate and auxiliary fuel feed rate are automatically controlled to maintain the process in balance.

BON is a Title V source pursuant to RCSA §§22a-174-33(a)(10)(A) and (B) because it is subject to 40 CFR Parts 60, 61, 62 and 63 and RCSA §22a-174-33(a)(10)(F)(iii) because potential NO_x emissions are greater than 25 tons per year. BON is located in a severe ozone non-attainment area as defined in RCSA §22a-174-1(106). BON is subject to:

40 CFR Part 60, Subpart O	Standards of Performance for Sewage Treatment Plants
40 CFR Part 61, Subpart C	National Emission Standards for Beryllium (Be)

Section I: Premises Information/Description

40 CFR Part 61, Subpart E	National Emission Standards for Mercury (Hg)
40 CFR Part 62, Subpart LLL	Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010
40 CFR Part 63, Subpart ZZZZ	Standards of Performance for Reciprocating Internal Combustion Engines (RICE)
40 CFR Part 503, Subpart E	Technical Standards for the Use and Disposal of Sewage Sludge Incineration

Section II: Emissions Units Information

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	Monitoring Unit Description	Permit or Regulation Number
EU-007	Generac 600 kW Emergency Generator Model: 3417900100 Installation Date: 2001 Maximum Rated Capacity: 6.38 MMBtu/hr Location: Generator Room	None	None	RCSA §22a-174-3c RCSA §22a-174-18 RCSA §22a-174-19b RCSA §22a-174-22e 40 CFR Part 63 Subpart ZZZZ
EU-013	Zimpro Fluidized Bed Sewage Sludge Incinerator Installation Date: 2002 Throughput: 3.5 DT/hr North American Manufacturing Company Preheat Burner Model: 5514-9 Maximum Rated Capacity: 16.5 MMBtu/hr Installation Date: 2002 Location: Outside East of Incinerator Building	EnviroCare/GORE MultiVenturi Scrubber/Mercury Adsorber	CEMS/COMS for: O_2, CO and NO_x	Permit No. 109-0081 RCSA §22a-174-18(c)(1) CGS §22a-191a 40 CFR Part 60 Subpart O 40 CFR Part 61 Subparts C and E 40 CFR Part 62 Subpart LLL 40 CFR Part 503 Subpart E

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit/ Grouped Emissions Unit	**Emissions Unit Description**	**Control Unit Description**	**Monitoring Unit Description**	**Permit or Regulation Number**
EU-011/ GEU-002	Tank for No. 2 Fuel Oil (Service Building) (AST) Installation Date: 1972 Maximum Rated Capacity: 275 gallons Location: Service Building	None	None	RCSA §22a-174-20
EU-021/ GEU-002	Hot Oil Emergency Tank Installation Date: 2002 Maximum Rated Capacity: 4,000 gallons Location: Outside of South Abel Room	None	None	RCSA §22a-174-20
EU-025/ GEU-002	Hot Oil Sump Installation Date: 2002 Maximum Rated Capacity: 595 gallons Location: Abel Room	None	None	RCSA §22a-174-20
EU-028/ GEU-002	Tank for No. 2 Fuel Oil (Generator Room) (AST) Installation Date: October 2015 Maximum Rated Capacity: 275 gallons	None	None	RCSA §22a-174-20

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit/ Grouped Emissions Unit	**Emissions Unit Description**	**Control Unit Description**	**Monitoring Unit Description**	**Permit or Regulation Number**
	Location: Generator Room			
EU-029/ GEU-002	Tank for No. 2 Fuel Oil (Admin. Building) (AST) Installation Date: 1972 Maximum Rated Capacity: 275 gallons Location: Admin. Building	None	None	RCSA §22a-174-20
EU-059/ GEU-002	Convault Tank for ULSD (AST) Installation Date: January 2007 Maximum Rated Capacity: 2,000 gallons Location: Outside West of Generator Room	None	None	RCSA §22a-174-20
EU-060/ GEU-002	Tank for Waste Oil (AST) Installation Date: 1980 Maximum Rated Capacity: 580 gallons Location: Oil Building	None	None	RCSA §22a-174-20
EU-061/ GEU-002	Tank for No. 2 Fuel Oil (AST) Installation Date: 2022	None	None	RCSA §22a-174-20

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit/ Grouped Emissions Unit	**Emissions Unit Description**	**Control Unit Description**	**Monitoring Unit Description**	**Permit or Regulation Number**
	Maximum Rated Capacity: 18,200 gallons Location: Outside West of Generator Room			
EU-005/ GEU-005	Peerless Boiler (Admin Building) Model: O-705-FDA-WU Installation Date: 1972 Maximum Rated Capacity: 0.71 MMBtu/hr Location: Admin Building Basement	None	None	RCSA §22a-174-18 RCSA §22a-174-19b
EU-006/ GEU-005	Peerless Boiler (Service Building) Model: JO-45-PF-WPCF Installation Date: 1971 Maximum Rated Capacity: 0.30 MMBtu/hr Location: Service Building Basement	None	None	RCSA §22a-174-18 RCSA §22a-174-19b
EU-062/ GEU-005	Weil Mclain Boiler (No. 2 fuel oil fired) Model: WM BL 588 W Series	None	None	RCSA §22a-174-18 RCSA §22a-174-19b

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit/ Grouped Emissions Unit	**Emissions Unit Description**	**Control Unit Description**	**Monitoring Unit Description**	**Permit or Regulation Number**
	Installation Date: 2019 Maximum Rated Capacity: 1.356 MMBtu/hr Location: Boiler Room			
EU-063/ GEU-005	Buderus Boiler (No. 2 fuel oil fired) Model: G515/8-8 Installation Date: 2016 Maximum Rated Capacity: 1.009 MMBtu/hr Location: Boiler Room	None	None	RCSA §22a-174-18 RCSA §22a-174-19b

Section II: Emissions Units Information

B. GROUPED EMISSIONS UNITS DESCRIPTION

Grouped emissions units are set forth in Table II.B.

TABLE II.B: GROUPED EMISSIONS UNITS DESCRIPTION		
Grouped Emissions Unit	**Emissions Unit**	**Description**
GEU-002	EU-011, EU-021, EU-025, EU-028, EU-029, EU-059, EU-060 and EU-061	Tanks
GEU-005	EU-005, EU-006, EU-062 and EU-063	Boilers (< 5 MMBtu/hr)

C. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.C: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	**Description of Scenario**
EU-007	The Permittee operates an emergency generator on No. 2 fuel oil in support of facility operations.
EU-013	The Permittee operates a sewage sludge incinerator by using sewage sludge as the primary fuel and No. 2 fuel oil or natural gas as auxiliary fuel. LPG may be used for pilot lighting.
GEU-002	The Permittee operates eight tanks.
GEU-005	The Permittee operates five boilers on No. 2 fuel oil.

Section III: Applicable Requirements and Compliance Demonstration

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

A. EU-007 (Generac 600 kW Emergency Generator)
Permit or Regulation Number: RCSA §22a-174-3c; RCSA §22a-174-18; RCSA §22a-174-19b; RCSA §22a-174-22e; 40 CFR Part 63 Subpart ZZZZ
NESHAP Designation: Existing Stationary Engine ≤ 500 hp located at area source of HAP Emergency CI before 6/12/2006

1. Maximum Hours of Operation

a. Limitation or Restriction

i. The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in 40 CFR Part 63 Subpart ZZZZ, Table 2d apply. [40 CFR §63.6625(h)]

ii. The Permittee shall operate the emergency stationary RICE according to the requirements in 40 CFR §63.6640(f)(1-4). In order for the engine to be considered an emergency stationary RICE under 40 CFR Part 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §63.6640(f)(1-4), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR §63.6640(f)(1-4), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and shall meet all requirements for non-emergency engines. [40 CFR §63.6640(f)]

(A) There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR §63.6640(f)(1)]

(B) The Permittee may operate the emergency stationary RICE for the purpose specified in paragraph 40 CFR §63.6640(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR §§63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by 40 CFR §63.6640(f)(2). [40 CFR §63.6640(f)(2)]

(1) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]

(C) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph 40 CFR §63.6640(f)(2). Except as provided

in paragraphs 40 CFR §§63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(4)]

(1) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [40 CFR §63.6640(f)(4)(ii)]

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator. [40 CFR §63.6640(f)(4)(ii)(A)]

(b) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. [40 CFR §63.6640(f)(4)(ii)(B)]

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. [40 CFR §63.6640(f)(4)(ii)(C)]

(d) The power is provided only to the facility itself or to support the local transmission and distribution system. [40 CFR §63.6640(f)(4)(ii)(D)]

(e) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee. [40 CFR §63.6640(f)(4)(ii)(E)]

b. Monitoring Requirements

The Permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR §63.6625(f)]

c. Record Keeping Requirements

The Permittee shall make and keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purpose specified in 40 CFR §63.6640(f)(4)(ii), the Permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR §63.6655(f)]

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)]

Section III: Applicable Requirements and Compliance Demonstration

2. Fuel Limit

a. Limitation or Restriction

The Permittee shall limit distillate oil purchase for the premises, inclusive of blends of distillate oil and biodiesel fuel, to equal to or less than 21,000 gallons in any calendar year. [RCSA §22a-174-3c(b)(6)] [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)(l)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall maintain purchase records to demonstrate compliance with applicable fuel limitations. [RCSA §22a-174-3c(c)(1)] [STATE ONLY REQUIREMENT]

ii. The Permittee shall make purchase records maintained pursuant to RCSA §22a-174-3c(c)(1) available to the commissioner to inspect and copy upon request. [RCSA §22a-174-3c(c)(2)] [STATE ONLY REQUIREMENT]

iii. The Permittee shall maintain records pursuant to RCSA §22a-174-3c(c)(1) for five years from the date such records are created. [RCSA §22a-174-3c(c)(3)] [STATE ONLY REQUIREMENT]

d. Record Keeping 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. Fuel Sulfur Content

a. Limitation or Restriction

i. The Permittee shall use diesel fuels that meets the requirements in 40 CFR §1090.305 for nonroad diesel fuel. [40 CFR §63.6604(b)]

ii. The Permittee shall not combust fuel in a stationary source that contains sulfur in excess of the applicable limitation set forth in RCSA §22a-174-19b, Table 19b-1 (i.e. 15 ppm (0.0015%) by weight), except as provided in in RCSA §§22a-174-19b(c) or (e). [RCSA §22a-174-19b(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)(l)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity

purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient to satisfy the requirements of RCSA §22a-174-19b(g) if the certification or contract identifies: [RCSA §22a-174-19b(g)(3)(A-D)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

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

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

ii. All records made to demonstrate compliance with the requirements of RCSA §22a-174-19b shall be: [RCSA §22a-174-19b(g)(4)(A) and (B)]

(A) Made available to the commissioner to inspect and copy upon request; and

(B) Maintained for five years from the date such record is created.

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. NO_x

a. Limitation or Restriction

The Permittee 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 Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the Permittee to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the Permittee from RCSA §22a-174-22e(d) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring Requirements

Record keeping specified in Section III.A.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)(l)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall retain all records and reports produced pursuant to RCSA §22a-174-22e(j)

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-174-22e(j)(1)]

ii. The Permittee shall make and keep the following records:
[RCSA §22a-174-22e(j)(2)(A),(B),(F) and (G)]

(A) For an emergency engine subject to 40 CFR 63 Subpart ZZZZ, records required by 40 CFR §63.6655;

(B) The date and work performed for repairs, replacement of parts and other maintenance;

(C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and

(D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA 22a-174-22e(j).

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. Opacity

a. Limitation or Restriction

i. The Permittee shall not exceed the following visible emissions limits:
[RCSA §22a-174-18(b)(1)]

(A) 20% opacity during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9; or [RCSA §22a-174-18(b)(1)(A)]

(B) 40% opacity as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one-minute block average [RCSA §22a-174-18(b)(1)(B)]

b. Monitoring Requirements

Record keeping specified in Section III.A.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)(l)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.5.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)]

6. Operation and Maintenance (O & M)

a. Limitation or Restriction

i. The Permittee shall meet the following requirements, except during periods of startup. [40 CFR §63.6603(a); 40 CFR §63.6640(a) and (b); 40 CFR Part 63 Subpart ZZZZ, Table 2d, Item No. 4(a-c)]

(A) Change oil and filter every 500 hours of operation or annually, whichever comes first;

(B) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

ii. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 40 CFR Part 63 Subpart ZZZZ, Table 2d. The oil analysis shall be performed at the same frequency specified for changing the oil in 40 CFR Part 63 Subpart ZZZZ, Table 2d. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30% of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20% from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within two business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within two business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine. [40 CFR §63.6625(i); 40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote No. 1]

iii. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in 40 CFR Part 63 Subpart ZZZZ, Table 2d, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management 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 Part 63 Subpart ZZZZ, Table 2d, Footnote No. 2]

iv. The Permittee shall be in compliance with the applicable emission limitations, operating limitations, and other requirements in 40 CFR Part 63 Subpart ZZZZ at all times. [40 CFR §63.6605(a)]

v. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]

vi. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop the Permittee's own maintenance plan which shall 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)]

b. Monitoring Requirements

i. The Permittee shall demonstrate continuous compliance with each applicable emission limitation, operating limitation, and other requirements in 40 CFR Part 63 Subpart ZZZZ, Table 2d according to methods specified in 40 CFR Part 63 Subpart ZZZZ, Table 6.
[40 CFR §63.6640(a)]

ii. The Permittee shall demonstrate continuous compliance by:
[40 CFR Part 63 Subpart ZZZZ, Table 6, Item No. 9(i) and (ii)]

(A) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(B) Develop and follow the Permittee's own maintenance plan which shall 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.

c. Record Keeping Requirements

i. The Permittee's records shall be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]

ii. As specified in 40 CFR §63.10(b)(1), the Permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]

iii. The Permittee shall keep each record 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, according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(c)]

iv. The Permittee shall make and keep records sufficient to show compliance with the applicable General Provisions requirements of 40 CFR §63.6665.
[40 CFR §63.6665; 40 CFR Part 63 Subpart ZZZZ, Table 8]

d. Reporting Requirements

i. The Permittee shall report each instance in which the Permittee did not meet each applicable emission limitation or operating limitation in 40 CFR Part 63 Subpart ZZZZ, Table 2d. These instances are deviations from the emission and operating limitations in 40 CFR Part 63 Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR §63.6650. If the Permittee changes their catalyst, the Permittee shall reestablish the values of the operating parameters measured during the initial performance test. When the Permittee reestablishes the values of their operating parameters, the Permittee shall also conduct a performance test to demonstrate that they are meeting the required emission limitation applicable to the stationary RICE. [40 CFR §63.6640(b)]

ii. The Permittee shall also report each instance in which they did not meet the applicable requirements in 40 CFR Part 63 Subpart ZZZZ, Table 8. [40 CFR §63.6640(e)]

iii. The Permittee shall submit all of the applicable notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b-e), and (g) and (h) by the dates specified. [40 CFR §63.6645(a)]

iv. The Permittee shall report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote No. 2]

B. EU-13 (Zimpro Fluidized Bed Sewage Sludge Incinerator)
Permit or Regulation Number: Permit No. 109-0081; RCSA §22a-174-18(c)(1); CGS §22a-191a; 40 CFR Part 60 Subpart O; 40 CFR Part 61 Subparts C and E; 40 CFR Part 62 Subpart LLL; 40 CFR Part 503 Subpart E

1. Allowable Primary Fuel

a. Limitation or Restriction

i. The allowable primary fuel in this unit is sewage sludge. [Permit No. 109-0081]

ii. For the purpose of this permit, sewage sludge is defined as any solid, semi-solid or liquid residue from the pretreatment or primary, secondary or advanced treatment by a Publicly Owned Treatment Works (POTW) of domestic sewage, industrial wastewater, septage, portable toilet pumpings, and grease traps. [Permit No. 109-0081]

iii. Any substance which is considered "municipal-type solid waste," as defined in Title 40 of the Code of Federal Regulations (CFR) Part 60, Section 60.51a, or "hazardous waste," as defined in Section 22a-115 of the Connecticut General Statutes is prohibited from being introduced to this unit. [Permit No. 109-0081]

b. Monitoring Requirements

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)(l)(K)(ii)]

c. Record Keeping Requirements

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

d. Reporting Requirements

The Permittee shall notify the commissioner, in writing, of the following: the date of completion of the proposed modification in Application No. 202308585. Any required written notification(s) shall be submitted to DEEP.CACU@ct.gov, DEEP.SEM@ct.gov and DEEP.BAM.AirPermits@ct.gov no later than 30 days after the subject event. [Permit No. 109-0081]

2. Sludge Charging Rate

a. Limitation or Restriction

i. The Maximum Sludge Charging Rate over a 30-day rolling average shall not exceed 3.5 DT/hr. [Permit No. 109-0081]

ii. The Maximum Quantity of Sludge Burned over any consecutive 12 month period shall not exceed 30,660 DT. [Permit No. 109-0081]

iii. The Permittee shall terminate sludge feed if the exhaust duct temperature is less than 1400ºF for a five minute period on a rolling basis or greater than 1750ºF (instantaneous) during normal operating conditions. [Permit No. 109-0081]

iv. Sewage sludge shall cease being introduced into the incinerator if the percent oxygen is less than 2% wet, based on a 5-minute rolling average. Sewage may be reintroduced to the incinerator when the oxygen percent is at least 2% wet, based on a 5-minute rolling average. [Permit No. 109-0081]

b. Monitoring and Testing Requirements

i. 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. 109-0081; 40 CFR §60.153(a)(2)]

ii. Each stack emission test shall include determination of the sludge hourly feed rate. [Permit No. 109-0081]

iii. The Permittee shall monitor the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, as specified in 40 CFR §§62.15960(f)(1) and (2): [40 CFR §62.15960(f)]

(A) Continuously monitor the sewage sludge feed rate and calculate a daily average for all hours of operation during each 24-hour period; and [40 CFR §62.15960(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. [40 CFR §62.15960(f)(2)]

c. Record Keeping Requirement

i. The Permittee shall determine the hourly dry sludge feed rate (DT/hr) in accordance with the following procedure: [Permit No. 109-0081]

(A) The Permittee shall calculate the dry solids hourly feed rate (DT/hr) using:

(1) the most recent volumetric wet sludge feed rate (recorded continuously);

(2) the most recent wet sludge density determination (done monthly); and

(3) most recent daily dry solids mass determination (done by blending results of samples taken multiple times per day).

ii. The Permittee shall determine the daily average dry solids hourly feed rate (DT/hr) by averaging the day's hourly feed rates. [Permit No. 109-0081]

iii. The Permittee shall compute a rolling 30-day average dry solids hourly feed rate by adding the current daily average (DT/hr) to the previous 29 daily averages (DT/hr) and calculating the average value. The rolling 30-day average dry solids hourly feed rate (DT/hr) shall be used to determine compliance with the maximum allowable dry sludge feed rate. [Permit No. 109-0081]

iv. The Permittee shall also keep records of daily, monthly, and consecutive 12-month quantity of sludge combusted (DT). [Permit No. 109-0081]

v. The Permittee shall make these calculations within 30 days of the end of each month. [Permit No. 109-0081]

vi. The Permittee shall make and keep a record of:

(A) the daily average feed rate, as specified in 40 CFR §62.16025(f)(3)(ii). [40 CFR §62.15960(f)(1)]

(B) the daily average moisture content, as specified in 40 CFR §62.16025(f)(3)(ii). [40 CFR §62.15960(f)(2)]

vii. The Permittee shall document that the dry sludge burned during the performance test is representative of the sludge burned under normal operating conditions by: [40 CFR §62.16015(a)(2)]

(A) Maintaining a log of the quantity of sewage sludge burned during the performance test by continuously monitoring and recording the average hourly rate that sewage sludge is fed to the incinerator. [40 CFR §62.16015(a)(2)(i)]

(B) Maintaining a log of the moisture content of the sewage sludge burned during the performance test by taking grab samples of the sewage sludge fed to the incinerator for each eight-hour period that testing is conducted. [40 CFR §62.16015(a)(2)(ii)]

viii. For continuous parameter monitoring systems-All daily average values recorded for the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, monitored and calculated as specified in 40 CFR §62.15960(f). [40 CFR §62.16025(f)(3)(ii)]

ix. The Permittee shall make and keep a record of the hourly sludge feed rate determination results. [Permit No. 109-0081; 40 CFR §503.47(i)]

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. Auxiliary Fuels

a. Limitation or Restriction

i. The auxiliary fuels allowed for this unit are No. 2 fuel oil or natural gas. LPG may be used for pilot lighting [Permit No. 109-0081]

ii. The Maximum Auxiliary Fuel Oil Sulfur Content (by weight, dry basis) shall not exceed 0.0015%. [Permit No. 109-0081]

iii. The Maximum Auxiliary Fuel Usage over any consecutive 12 month period shall not exceed: [Permit No. 109-0081]

(A) 1.97 MMgal of No. 2 oil;

(B) 280 MMcf of natural gas;

(C) 280,000 MMBTU for the combination of No. 2 oil and natural gas.

b. Monitoring and Testing Requirements

Each stack emission test shall include determination of the auxiliary fuel hourly feed rate. [Permit No. 109-0081]

c. Record Keeping Requirements

i. 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. 109-0081]

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 this 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 No. 109-0081]

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. Operating Combustion Temperature

a. Limitation or Restriction

i. Operation of a sewage sludge incinerator (SSI) shall not cause the operating combustion temperature for the sewage sludge incinerator to exceed the performance test combustion temperature by more than 20%. [Permit No. 109-0081; 40 CFR §503.45(e)]

ii. The Permittee shall meet a site-specific operating limit established per 40 CFR §62.15985. [Permit No. 109-0081; 40 CFR §62.15960(a)]

iii. The maximum combustion chamber operating temperature operating limit is 1,522^{o}F averaged over a 12-hour block.
[40 CFR §62.15995(e); EPA's letter to Borough of Naugatuck-WPCF dated March 19, 2018]

b. Monitoring and Testing Requirements

i. The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: SSI-Minimum combustion chamber operating temperature (^{o}F), 12-hour block average. [Permit No. 109-0081]

ii. The minimum combustion chamber operating temperature (or minimum afterburner temperature), is equal to the lowest 4-hour average combustion chamber operating temperature (or afterburner temperature) measured during the most recent performance test demonstrating compliance with all applicable emission limits.
[Permit No. 109-0081; 40 CFR §62.15985(e)]

iii. The Permittee shall install, calibrate, maintain and operate an instrument that continuously measures combustion temperatures. [Permit No. 109-0081; 40 CFR §503.45(d)]

iv. The Permittee shall monitor the SSI unit *fluidized bed* combustion chamber operating temperature continuously and establish and operating limit of a maximum temperature averaged over a 12-hour block, for the purpose of demonstrating on-going compliance with NO_x emission limit and standard described in 40 CFR Part 62, Subpart LLL, Table 2.
[40 CFR §62.15995(e); EPA's letter to Borough of Naugatuck-WPCF dated March 19, 2018; 40 CFR Part 62, Subpart LLL, Table 2]

v. The Permittee shall monitor the SSI unit *freeboard* combustion chamber operating temperature continuously and establishing an operating limit of a minimum temperature averaged over a 12-hour block, for the purpose of demonstrating on-going compliance with the CO and dioxins/furans emission limits and standards described in 40 CFR Part 62, Subpart LLL, Table 2.

[40 CFR §62.15995(e); EPA's letter to Borough of Naugatuck-WPCF dated March 19, 2018; 40 CFR Part 62, Subpart LLL, Table 2]

c. Record Keeping Requirements

i. The Permittee shall keep calibration and maintenance records and original instrument chart recordings for all continuous monitoring instruments and equipment. [Permit No. 109-0081]

ii. For continuous parameter monitoring systems-All 1-hour average values recorded for the following operating parameters, as applicable: Combustion chamber operating temperature (or afterburner temperature). [40 CFR §62.16025(f)(3)(i)(A)]

iii. The Permittee shall install, calibrate, maintain and operate an instrument that continuously records combustion temperatures. [Permit No. 109-0081; 40 CFR §503.45(d)]

iv. The Permittee shall make and keep records of the operating combustion temperatures for the sewage sludge incinerator. [Permit No. 109-0081; 40 CFR §503.47(f)]

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. Flue Gas Oxygen (O_2) Concentration

a. Limitation or Restriction

The Oxygen Content Range is 3 to 3.5%, wet (at normal or quasi-steady state).
[Permit No. 109-0081]

b. Monitoring and Testing Requirements

i. The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: O_2, 1-hour block average. [Permit No. 109-0081]

ii. The Permittee shall install, calibrate, maintain and operate a monitoring device that continuously measures and records the oxygen content (wet) of the incinerator exhaust gas. The oxygen monitoring device shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust gas stream, fan ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have an accuracy of ±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. 109-0081; 40 CFR §60.153(b)(2); 40 CFR §503.45(b)]

iii. The Permittee shall install, calibrate, maintain and operate an instrument that continuously measures and records information used to determine the moisture content in the sewage sludge incinerator stack exit gas. [Permit No. 109-0081; 40 CFR §503.45(c)]

iv. Each stack emission test shall include determination of the percent oxygen, wet, in the fluidized bed incinerator exhaust duct, based on a five-minute rolling average. [Permit No. 109-0081]

v. Method 3A or 3B at 40 CFR Part 60, Appendix A–2, shall be used for gas composition analysis, including measurement of oxygen concentration. [40 CFR §62.16015(a)(5)]

(A) During each relative accuracy test run of the continuous emissions monitoring system using the performance specifications in 40 CFR §62.16015(b)(3)(ii), emission data for each regulated pollutant and oxygen (or carbon dioxide as established in 40 CFR §62.16015(b)(5)) shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emissions monitoring systems and the test methods specified in 40 CFR §§62.16015(b)(4)(i-viii). Relative accuracy testing shall be at representative operating conditions while the SSI unit is charging sewage sludge. For oxygen (or carbon dioxide as established in 40 CFR §62.16015(b)(5)), Method 3A or 3B at 40 CFR Part 60, Appendix A–2, or as an alternative ANSI/ASME PTC 19.10–1981, Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus], as applicable, shall be used (see 40 CFR §62.16015(e)). [40 CFR §62.16015(b)(4)(vi)]

c. Record Keeping Requirements

i. The Permittee shall keep calibration and maintenance records and original instrument chart recordings for all continuous monitoring instruments and equipment. [Permit No. 109-0081]

ii. The Permittee shall make and keep a record of the measured oxygen content of the incinerator exhaust gas. [Permit No. 109-0081; 40 CFR §60.153(c)(2)]

iii. The Permittee shall make and keep a record of the oxygen concentration and information used to measure moisture content in the exit gas from the sewage sludge incinerator stack. [Permit No. 109-0081; 40 CFR §503.47(h)]

d. Reporting Requirements

i. The Permittee shall submit to the Administrator semi-annually a report in writing which contains the following: [Permit No. 109-0081; 40 CFR §60.155(a)]

(A) A record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3%. [Permit No. 109-0081; 40 CFR §60.155(a)(2)]

6. Ash Handling System

a. Limitation or Restriction

i. The Permittee shall meet the operating requirements in the site-specific fugitive emission monitoring plan, submitted as specified in 40 CFR §62.15995(d) to ensure that the ash handling system will meet the emission standard for fugitive emissions from ash handling. [40 CFR §62.15960(d)]

ii. No person shall cause or allow any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, prepared for the application of a coating or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions shall be in accordance with good industrial practice as determined by the commissioner and shall include, but not be limited to: [RCSA §22a-174-18(c)(1)]

(A) the use of water or other appropriate material to prevent airborne particulate matter generated by the demolition of buildings or other structures; construction operations; the clearing or grading of land; or the grading, construction or improvement of roads;

(B) the application of asphalt, water, suitable materials or covers to material stockpiles and other surfaces that can give rise to airborne particulate matter;

(C) the use of hoods, fans, fabric filters or other devices to enclose and vent the handling of materials that can give rise to airborne particulate matter;

(D) the covering, while in motion, of open-bodied trucks, open-bodied trailers and railroad cars transporting materials capable of giving rise to airborne particulate matter;

(E) the prompt removal of earth or other material deposited onto paved streets by trucking, earth moving equipment, erosion or other means; and

(F) the use of containment methods for sandblasting or similar operations.

b. Monitoring Requirements

Record keeping specified in Section III.B.6.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

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.6.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit a monitoring plan specifying the ash handling system operating procedures that they will follow to ensure that they meet the fugitive emission limit specified in 40 CFR Part 62 Subpart LLL, Table 2. [Permit No. 109-0081; 40 CFR §62.15995(d)]

7. EnviroCare VenturiPak Scrubber

a. Limitation or Restriction

i. Liquid/Water Flow Rate

(A) The Permittee shall meet a site-specific operating limit established per 40 CFR §62.15985. [Permit No. 109-0081; 40 CFR §62.15960(b)]

(B) The scrubber liquid flow rate (measured at the inlet to each wet scrubber), shall be no less than the lowest 4-hour average liquid flow rate measured during the most recent performance test demonstrating compliance with all applicable emission limits. [Permit No. 109-0081; 40 CFR §62.15985(c)]

ii. pH

(A) The Permittee shall meet a site-specific operating limit established per 40 CFR §62.15985 [Permit No. 109-0081; 40 CFR §62.15960(b)]

(B) The scrubber liquid pH for each wet scrubber used to meet the SO_x or HCl emission limits in 40 CFR Part 62 Subpart LLL, Table 2, shall be no less than the lowest 1-hour average scrubber liquid pH measured during the most recent performance test demonstrating compliance with the SO_x and HCl emission limits. [Permit No. 109-0081; 40 CFR §62.15985(d)]

iii. Pressure Drop

(A) The Permittee shall meet a site-specific operating limit established per 40 CFR §62.15985 [Permit No. 109-0081; 40 CFR §62.15960(b)

(B) The pressure drop across each wet scrubber used to meet the PM, Pb and Cd emission limits in 40 CFR Part 62 Subpart LLL, Table 2, shall be no less than the lowest 4-hour average pressured drop across each such wet scrubber measured during the most recent performance test demonstrating compliance with the PM, Pb and Cd emission limits. [Permit No. 109-0081; 40 CFR §62.15985(b)]

b. Monitoring and Testing Requirements

i. Liquid/Water Flow Rate

(A) The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: Scrubber-Minimum liquid flow rate (gpm), 12-hour block average. [Permit No. 109-0081]

ii. pH

(A) The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: Scrubber-Minimum liquid pH, 3-hour block average. [Permit No. 109-0081]

iii. Pressure Drop

(A) The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: Scrubber-Minimum pressure drop (inches H_2O), 12-hour block average. [Permit No. 109-0081]

(B) The Permittee shall install, calibrate, maintain and operate a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within ±1 inch of water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions. [Permit No. 109-0081; 40 CFR §60.153(b)(1)]

c. Record Keeping Requirements

i. The Permittee shall keep calibration and maintenance records and original instrument chart recordings for all continuous monitoring instruments and equipment. [Permit No. 109-0081]

ii. The Permittee shall make and keep records of values for the air pollution control device operating parameters. [Permit No. 109-0081; 40 CFR §503.47(g)]

iii. Liquid/Water Flow Rate

(A) For continuous parameter monitoring systems-All 1-hour average values recorded for the following operating parameters, as applicable: liquid flow rate to each wet scrubber used to comply with the emission limit in 40 CFR Part 62 Subpart LLL, Table 2 or for particulate matter, cadmium or lead. [40 CFR §62.16025(f)(3)(i)(B)]

iv. pH

(A) For continuous parameter monitoring systems-All 1-hour average values recorded for the following operating parameters, as applicable: scrubber liquid pH for each wet scrubber used to comply with an emission limit in 40 CFR Part 62 Subpart LLL, Table 2 for sulfur dioxide or hydrogen chloride. [40 CFR 62.16025(f)(3)(i)(B)]

v. Pressure Drop

(A) The Permittee shall make and keep a record of the measured pressure drop of the gas flow through the wet scrubbing device. [Permit No. 109-0081; 40 CFR §60.153(c)(1)]

(B) For continuous parameter monitoring systems-All 1-hour average values recorded for the following operating parameters, as applicable: Pressure drop across each wet scrubber system. [40 CFR §62.16025(f)(3)(i)(B)]

d. Reporting Requirements

i. Pressure Drop

(A) The Permittee shall submit to the Administrator semi-annually a report in writing which contains the following: [Permit No. 109-0081; 40 CFR §60.155(a)]

(1) A record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than, by a percentage specified in 40 CFR §§60.155(a)(1)(i) or (ii), the average scrubber pressure drop measured during the most recent performance test.

[Permit No. 109-0081; 40 CFR §60.155(a)(1)]

8. Opacity

a. Limitation or Restriction

i. On and after the date on which the performance test required to be conducted by 40 CFR §60.8 is completed, the Permittee shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater. [Permit No. 109-0081; 40 CFR §60.152(a)(2)]

ii. The Permittee shall meet the following emission limit: Visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) for no more than 5% of any compliance test hourly observation period. The Permittee shall determine compliance using a visible emission test (40 CFR Part 60, Appendix A-7, Method 22).
[Permit No. 109-0081; 40 CFR §62.15955; 40 CFR Part 62 Subpart LLL, Table 2]

b. Monitoring and Testing Requirements

The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: Opacity (%), six minute block average. [Permit No. 109-0081]

c. Record Keeping Requirements

The Permittee shall keep calibration and maintenance records and original instrument chart recordings for all continuous monitoring instruments and equipment. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit to the Commissioner, on forms prescribed by the Commissioner, a quarterly report summarizing the excess emissions and the CEMS performance. Such report shall be submitted to the Commissioner not later than 30 days after the end of each calendar quarter in which data was collected. Each quarterly report shall include, at a minimum, the following information: [Permit No. 109-0081; RCSA §22a-174-4a(i)(A-D)]

(A) A list of all periods of excess emissions that includes:

(1) Date and time of commencement and completion of each period of excess emissions,

(2) The measured value of excess emissions,

(3) The cause or likely cause of the excess emissions, and

(4) Corrective actions and future preventative measures;

(B) A completed excess emissions summary form prescribed by the Commissioner;

(C) A completed CEMS performance form prescribed by the commissioner which includes calculation of data availability for each pollutant and diluent, as specified in RCSA §22a-174-4a(g); and

(D) A list of all periods of malfunctions of the CEMS that includes:

(1) Date and time of commencement and completion of each malfunction period,

(2) Cause or likely cause of malfunction, and

(3) Corrective actions and future preventative measures.

9. PM_{10}

a. Limitation or Restriction

i. The Permittee shall not exceed the following PM_{10} limits: [Permit No. 109-0081]

(A) 0.41 lb/DT (Dry Sludge Content: < 30 % ash)

(B) 0.48 lb/DT (Dry Sludge Content: ≥ 30 % ash)

(C) 18 mg/dscm @7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955; 40 CFR §503.40(c)(2)]

(D) 7.4 tpy

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Recurrent stack testing for PM_{10} shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

iii. The stack emissions testing for PM_{10} shall include determination of: [Permit No. 109-0081]

(A) percent ash content in the sludge;

(B) compliance with the PM_{10} emission limit; and [40 CFR §60.152(a)(1)]

iv. Demonstration of compliance with the PM_{10} emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month PM_{10} emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 109-0081]

ii. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. PM_{10} stack test results shall be reported in the following units: lb/DT and mg/dscm @ 7% O_2 [Permit No. 109-0081]

iv. Ash content stack test results shall be reported in the following units: % [Permit No. 109-0081]

10. SO_2

a. Limitation or Restriction

i. The Permittee shall not exceed the following SO_2 limits: [Permit No. 109-0081]

(A) 2.7 lb/DT (Dry Sludge Content: < 1.5 % sulfur)

(B) 3.6 lb/DT (Dry Sludge Content: ≥ 1.5 % sulfur)

(C) 15 ppmvd @ 7% O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955; 40 CFR §503.40(c)(2)]

(D) 55.0 tpy

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines

available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Recurrent stack testing for SO_2 shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

iii. The stack emission testing for SO_x shall include determination of the percent sulfur content in the sludge. [Permit No. 109-0081]

iv. Demonstration of compliance with the SO_2 emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

v. For continuous emissions monitoring systems, the quality assurance procedures (*e.g.*, quarterly accuracy determinations and daily calibration drift tests) of Appendix F of 40 CFR Part 60 specified in 40 CFR §§62.16015(b)(3)(iii)(A-G). For each pollutant, the span value of the continuous emissions monitoring system is two times the applicable emission limit, expressed as a concentration. For sulfur dioxide, Procedure 1 in Appendix F of 40 CFR Part 60. [40 CFR §62.16015(b)(3)(iii)(G)]

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month SO_2 emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 109-0081]

ii. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. SO_2 stack test results shall be reported in the following units: lb/DT and ppmvd @ 7% O_2. [Permit No. 109-0081]

iv. Sulfur content stack test results shall be reported in the following units: %. [Permit No. 109-0081]

11. NO_x

a. Limitation or Restriction

i. The Permittee shall not exceed the following NO_x limits: [Permit No. 109-0081]

(A) 2.9 lb/DT

(B) 150 ppmvd @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955; 40 CFR §503.40(c)(2)]

(C) 44.0 tpy

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Recurrent stack testing for NO_x shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

iii. Demonstration of compliance with the NO_x emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

iv. For continuous emissions monitoring systems, the quality assurance procedures (*e.g.,* quarterly accuracy determinations and daily calibration drift tests) of Appendix F of 40 CFR Part 60 specified in 40 CFR §§62.16015(b)(3)(iii)(A-G). For each pollutant, the span value of the continuous emissions monitoring system is two times the applicable emission limit, expressed as a concentration. For nitrogen oxides, Procedure 1 in Appendix F of 40 CFR Part 60. [40 CFR §62.16015(b)(3)(iii)(F)]

v. During each relative accuracy test run of the continuous emissions monitoring system using the performance specifications in 40 CFR §62.16015(b)(3)(ii), emission data for each regulated pollutant and oxygen (or carbon dioxide as established in 40 CFR §62.16015(b)(5)) shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emissions monitoring systems and the test methods specified in 40 CFR §§62.16015(b)(4)(i-viii). Relative accuracy testing shall be at representative operating conditions while the SSI unit is charging sewage sludge. For nitrogen oxides, Method 7 or 7E at 40 CFR Part 60, Appendix A–4, shall be used. [40 CFR §62.16015(b)(4)(vi)]

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month NO_x emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 109-0081]

ii. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

iii. *Continuous monitoring data*-Records of the following data, as applicable: [40 CFR §62.16025(f)]

(A) For continuous emissions monitoring systems, all 1-hour average concentrations of nitrogen oxides. [40 CFR §62.16025(f)(1)]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. NO_x stack test results shall be reported in the following units: lb/DT and ppmvd @ 7% O_2. [Permit No. 109-0081]

12. VOC/Hydrocarbons (HC)

a. Limitation or Restriction

i. The Permittee shall not exceed the following VOC limits: [Permit No. 109-0081]

(A) 0.32 lb/DT

(B) 4.9 tpy

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Recurrent stack testing for VOC/HC shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

iii. The Permittee shall stack test annually for hydrocarbons in the incinerator exhaust gas. [Permit No. 109-0081; CGS §22a-191a(b)]

iv. Demonstration of compliance with the VOC emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month VOC emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample

calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 109-0081]

ii. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. VOC/HC stack test results shall be reported in the following units: lb/DT and $\mu g/m^3$. [Permit No. 109-0081]

13. CO

a. Limitation or Restriction

i. The Permittee shall not exceed the following CO limits: [Permit No. 109-0081]

(A) 1.4 lb/DT

(B) 64 ppmvd @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955; 40 CFR §503.40(c)(2)]

(C) 22.0 tpy

b. Monitoring and Testing Requirements

i. The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: CO (ppmvd @ 7% O_2), 24-hour block average. [Permit No. 109-0081]

ii. The Permittee shall install, calibrate, maintain and operate a CO monitor. [Permit No. 109-0081; RCSA §22a-174-4a; 40 CFR §503.40(c)(1)]

iii. Demonstration of compliance with the CO emission limits may be met by calculating the emission rates using emission factors from the following sources: As measured by the CEM system (ppmvd @ 7% O_2). [Permit No. 109-0081]

iv. For determining compliance with the CO concentration limit using CO CEMS, the correction to 7% O_2 does not apply during periods of startup or shutdown. Use the measured CO concentration without correcting for O_2 concentration in averaging with other CO concentrations (corrected to 7% O_2) to determine the 24-hour average value.
[Permit No. 109-0081; 40 CFR §62.15970; 40 CFR §62.16000(b)(1)(i)]

v. The Permittee shall install, operate, calibrate, and maintain an instrument for continuously measuring and recording the emissions to the atmosphere in accordance with the following:
[40 CFR §62.16015(b)(3)]

(A) 40 CFR §60.13 Subpart A. [40 CFR §62.16015(b)(3)(i)]

(B) The following performance specifications of Appendix B of 40 CFR Part 60, as applicable: For CO, Performance Specification 4B of Appendix B of 40 CFR Part 60 with spans appropriate to the applicable emission limit. [40 CFR §62.16015(b)(3)(ii)(C)]

(C) For continuous emissions monitoring systems, the quality assurance procedures (*e.g.*, quarterly accuracy determinations and daily calibration drift tests) of Appendix F of 40 CFR Part 60 specified in 40 CFR §§62.16015(b)(3)(iii)(A-G). For each pollutant, the span value of the continuous emissions monitoring system is two times the applicable emission limit, expressed as a concentration. For carbon monoxide, Procedure 1 in Appendix F of 40 CFR Part 60. [40 CFR §62.16015(b)(3)(iii)(C)]

(D) During each relative accuracy test run of the continuous emissions monitoring system using the performance specifications in 40 CFR §62.16015(b)(3)(ii), emission data for each regulated pollutant and oxygen (or carbon dioxide as established in 40 CFR §62.16015(b)(5)) shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emissions monitoring systems and the test methods specified in 40 CFR §§62.16015(b)(4)(i-viii). Relative accuracy testing shall be at representative operating conditions while the SSI unit is charging sewage sludge. For carbon monoxide, Method 10, 10A, or 10B at 40 CFR 40 CFR Part 60, Appendix A–4, shall be used.
[40 CFR §62.16015(b)(4)(iii)]

vi. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

vii. Recurrent stack testing for CO shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 109-0081]

ii. The Permittee shall keep calibration and maintenance records and original instrument chart recordings for all continuous monitoring instruments and equipment. [Permit No. 109-0081]

iii. *Continuous monitoring data*-Records of the following data, as applicable: [40 CFR §62.16025(f)]

(A) For continuous emissions monitoring systems, all 1-hour average concentrations of carbon monoxide. [40 CFR §62.16025(f)(1)]

iv. *Other records for continuous monitoring systems*-The Permittee shall keep the following records, as applicable: Keep records of any requests under 40 CFR §62.16015(b)(5) that compliance with the emission limits be determined using carbon dioxide measurements corrected to an equivalent of 7% O_2. [40 CFR §62.16025(g)(2)]

v. The Permittee shall make and keep the following records and shall retain the information for five years: [Permit No. 109-0081; 40 CFR §503.40(c)(3)]

(A) The CO concentrations in the exit gas; and

(B) A calibration and maintenance log for the instrument used to measure the CO concentration.

vi. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit to the Commissioner, on forms prescribed by the Commissioner, a quarterly report summarizing the excess emissions and the CEMS performance. Such report shall be submitted to the Commissioner not later than 30 days after the end of each calendar quarter in which data was collected. Each quarterly report shall include, at a minimum, the following information: [Permit No. 109-0081; RCSA §22a-174-4a(i)(A-D)]

(A) A list of all periods of excess emissions that includes:

(1) Date and time of commencement and completion of each period of excess emissions,

(2) The measured value of excess emissions,

(3) The cause or likely cause of the excess emissions, and

(4) Corrective actions and future preventative measures;

(B) A completed excess emissions summary form prescribed by the Commissioner;

(C) A completed CEMS performance form prescribed by the commissioner which includes calculation of data availability for each pollutant and diluent, as specified in RCSA §22a-174-4a(g); and

(D) A list of all periods of malfunctions of the CEMS that includes:

(1) Date and time of commencement and completion of each malfunction period,

(2) Cause or likely cause of malfunction, and

(3) Corrective actions and future preventative measures.

ii. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

iii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iv. CO stack test results shall be reported in the following units: lb/DT and ppmvd @ 7% O_2. [Permit No. 109-0081]

14. HAP

a. Limitation or Restriction

i. This equipment 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 No. 109-0081]

ii. The Permittee shall not exceed the following limits: [Permit No. 109-0081]

(A) Lead (Pb)

(1) 0.021 lb/DT

(2) 7.4E-03 mg/dscm @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955; 40 CFR §503.40(c)(2)]

(3) 0.32 tpy

(B) Cadmium (Cd): 1.6E-03 mg/dscm @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955]

(C) The Permittee has the option to comply with either the dioxin/furan emission limit on a total mass basis or the dioxin/furan emission limit on a toxic equivalency basis:

(1) Dioxins/furans (total mass basis): 1.2 ng/dscm @ 7 % O_2

(2) Dioxins/furans (toxic equivalency basis): 0.10 ng/dscm @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955]

(D) Hydrogen Chloride (HCl)

(1) 0.32 lb/DT

(2) 0.51 ppmvd @ 7 % O_2

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955]

(E) Sulfuric Acid (H_2SO_4): 0.32 lb/DT

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Recurrent stack testing for Pb shall be conducted within five years from the date of the previous stack test. [Permit No. 109-0081]

iii. The Permittee shall stack test annually for metals (i.e. As, Cd, Cr, Cu, Pb, Mn, Ni, Se and Zn) in the incinerator exhaust gas. [Permit No. 109-0081; CGS §22a-191a(b)]

iv. Demonstration of compliance with the HAP (Pb, Cd, Dioxins/Furans, HCl and H_2SO_4) emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

v. To demonstrate compliance with the dioxins/furans toxic equivalency emission limit in 40 CFR §§62.16000 (a) or (b), the Permittee shall determine dioxins/furans toxic equivalency as follows: [40 CFR §62.16000(c)]

(A) Measure the concentration of each dioxin/furan tetra- through octachlorinated-isomer emitted using Method 23 at 40 CFR Part 60, Appendix A–7.
[40 CFR §62.16000(c)(1)]

(B) For each dioxin/furan (tetra- through octachlorinated) isomer measured in accordance with 40 CFR §62.16000(c)(1), multiply the isomer concentration by its corresponding toxic equivalency factor specified in 40 CFR Part 62 Subpart LLL, Table 5.
[40 CFR §62.16000(c)(2)]

(C) Sum the products calculated in accordance with 40 CFR §62.16000(c)(2) to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.
[40 CFR §62.16000(c)(3)]

vi. The option to use a continuous emissions monitoring system for hydrogen chloride, dioxins/furans, cadmium, or lead takes effect on the date a final performance specification applicable to hydrogen chloride, dioxins/furans, cadmium or lead is published in the Federal Register. The option to use a continuous automated sampling system for dioxins/furans takes effect on the date a final performance specification for such a continuous automated sampling system is published in the Federal Register. [40 CFR §62.16015(b)]

c. Record Keeping Requirements

i. The Permittee shall keep records of any incinerator performance test results.
[Permit No. 109-0081]

ii. The Permittee shall calculate and record the monthly and consecutive 12 month Pb emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)]

iii. The Permittee shall make and keep records of:

(A) The concentration of lead, arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator [Permit No. 109-0081; 40 CFR §503.47(b)]

(B) The stack height for the sewage sludge incinerator
[Permit No. 109-0081; 40 CFR §503.47(j)]

(C) The dispersion factor for the site where the sewage sludge incinerator is located
[Permit No. 109-0081; 40 CFR §503.47(k)]

(D) The control efficiency for lead, arsenic, cadmium, chromium, and nickel for each sewage sludge incinerator [Permit No. 109-0081; 40 CFR §503.47(l)]

(E) The risk specific concentration for chromium calculated using Equation No. 6 in 40 CFR §503.43, if applicable [Permit No. 109-0081; 40 CFR §503.47(m)]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. Stack test results shall be reported in the following units: [Permit No. 109-0081]

(A) Pb: lb/DT and mg/dscm @ 7 % O_2

(B) HCl: lb/DT and ppmvd @ 7% O_2

(C) H_2SO_4: lb/DT

(D) Cd: mg/dscm @ 7 % O_2

(E) Dioxins/Furans (total mass basis or toxic equivalency basis): ng/dscm @ 7% O_2

(F) HAPs, metals: µg/m^3

15. Beryllium (Be)

a. Limitation or Restriction

The Permittee shall not exceed the beryllium limit of 0.022 lb/24-hr period. [Permit No. 109-0081; 40 CFR §61.32(a)]

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. Stack testing is required to determine compliance with the beryllium (Be) emission limit. [Permit No. 109-0081; 40 CFR §61.33(a)]

iii. Demonstration of compliance with the Be emission limit may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test. [Permit No. 109-0081]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of information that indicates the requirements in the National Emission Standard for beryllium in 40 CFR Part 61 Subpart C are met. [Permit No. 109-0081; 40 CFR §503.47(d)]

ii. The Permittee shall keep records of any incinerator performance test results. [Permit No. 109-0081]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing. [Permit No. 109-0081]

iii. Be stack test results shall be reported in the following units: lb/24-hr period and $\mu g/m^3$. [Permit No. 109-0081]

16. Mercury (Hg)

a. Limitation or Restriction

i. The Permittee shall not exceed the following mercury limits:

(A) 7.1 lb/24-hr period [Permit No. 109-0081; 40 CFR §61.52(b)]

(B) 3.7E-02 mg/dscm@ 7 % O_2 [Permit No. 109-0081]

Note: The Permittee shall meet the emission limits and standards specified in Table 2 to 40 CFR Part 62 Subpart LLL by the final compliance date specified in 40 CFR §62.15875. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge 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 §62.15955]

ii. For the Mercury Adsorber (normal steady state or quasi-steady state operating conditions) the following apply:

(A) The Permittee shall measure mercury concentrations quarterly using a portable analyzer at the inlet and outlet of the mercury control system. [Permit No. 109-0081]

(B) The Permittee shall replace the first layer of the mercury modules should the removal efficiency of the Mercury Adsorber be less than 70% and the outlet concentration is greater than 0.03 mg/m^3. [Permit No. 109-0081]

(C) The pressure drop across the module shall not be greater than 2.7 inches water, averaged over 12 hours.
[40 CFR §62.15965(b)(2); EPA's letter to Borough of Naugatuck-WPCF dated August 27, 2019]

(D) The inlet flue gas temperature to the module shall not be greater than 180°F, averaged over 12 hours.
[40 CFR §62.15965(b)(2); EPA's letter to Borough of Naugatuck-WPCF dated August 27, 2019]

(E) When the mercury concentration of the flue gas at the module outlet is greater than 0.03

mg/m^3, the removal efficiency of mercury in the flue gas (measured as a concentration) shall not be less than 70% for each quarterly monitoring event. In addition, the mercury concentration of the flue gas at the module outlet shall not be greater than 0.037 mg/m^3 for each quarterly monitoring event.
[40 CFR §62.15965(b)(2); EPA's letter to Borough of Naugatuck-WPCF dated August 27, 2019]

b. Monitoring and Testing Requirements

i. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [Permit No. 109-0081]

ii. The Permittee shall stack test annually for mercury in the incinerator exhaust gas.
[Permit No. 109-0081; CGS §22a-191a(b)]

iii. Stack testing is required to determine compliance with the mercury (Hg) emission limit.
[Permit No. 109-0081; 40 CFR §61.53(d)]

iv. Demonstration of compliance with the Hg emission limits may be met by calculating the emission rates using emission factors from the following sources: Most recent stack test.
[Permit No. 109-0081]

v. For the Mercury Adsorber the following apply:
[40 CFR §62.15965(b)(2); EPA's letter to Borough of Naugatuck-WPCF dated August 27, 2019]

(A) The Permittee shall monitor continuously the pressure drop across the module, using a differential pressure sensor/transmitter as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan.

(B) The Permittee shall monitor continuously the inlet flue gas temperature, using a resistance temperature detector as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan.

(C) The Permittee shall monitor, on a quarterly basis, mercury concentrations in the flue gas at the inlet and outlet to the module using a portable mercury analyzer as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan, in accordance with the Permittee's standard operating procedure. In addition, the Permittee should note the mercury concentration monitoring using the portable mercury analyzer as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan meets the definition of a "continuous monitoring system," as described in the definitions in 40 CFR §60.2.

c. Record Keeping Requirements

i. The Permittee shall make and keep records of information that indicates the requirements in the National Emission Standard for mercury in 40 CFR Part 61 Subpart E are met.
[Permit No. 109-0081; 40 CFR §503.47(e)]

ii. The Permittee shall keep records of any incinerator performance test results.
[Permit No. 109-0081]

iii. For the Mercury Adsorber the following apply:
[40 CFR §62.15965(b)(2); EPA's letter to Borough of Naugatuck-WPCF dated August 27, 2019]

(A) The Permittee shall record continuously the pressure drop across the module, using a differential pressure sensor/transmitter as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan.

(B) The Permittee shall record continuously the inlet flue gas temperature, using a resistance temperature detector as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan.

(C) The Permittee shall record, on a quarterly basis, mercury concentrations in the flue gas at the inlet and outlet to the module using a portable mercury analyzer as described in Table 8 of the most recent EPA approved Site Specific Monitoring Plan, in accordance with the Permittee's standard operating procedure.

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this incinerator. [Permit No. 109-0081]

ii. The Permittee shall submit test results within 60 days after completion of testing.
[Permit No. 109-0081]

iii. Hg stack test results shall be reported in the following units: lb/24-hr period and $\mu g/m^3$.
[Permit No. 109-0081]

17. Operation and Maintenance (O & M)

a. Limitation or Restriction

i. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [Permit No. 109-0081]

ii. The Permittee shall properly operate the control equipment at all times that this equipment is in operation and emitting air pollutants. [Permit No. 109-0081]

iii. *Air pollution control device inspections*-The Permittee shall conduct air pollution control device inspections that include, at a minimum, the following: [40 CFR §§62.16015(c)(1-3)]

(A) Inspect air pollution control device(s) for proper operation;

(B) Generally observe that the equipment is maintained in good operating condition; and

(C) Develop a site-specific monitoring plan according to the requirements in 40 CFR §62.15995. This requirement also applies to the Permittee if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR §60.13(i).

b. Monitoring and Testing Requirements

i. The Permittee shall conduct an air pollution control device inspection according to 40 CFR §62.16015(c) by the final compliance date as specified in 40 CFR §62.15875. For air pollution control devices installed after the final compliance date, the Permittee shall conduct the air pollution control device inspection within 60 days after installation of the control device. [Permit No. 109-0081; 40 CFR §62.15990(a)]

ii. Within ten operating days following the air pollution control device inspection under 40 CFR §62.15990(a), all necessary repairs shall be completed unless the Permittee obtains written approval from the Administrator establishing a date whereby all necessary repairs of the SSI unit shall be completed. [Permit No. 109-0081; 40 CFR §62.15990(b); 40 CFR §62.16010(b)]

iii. The Permittee shall conduct an annual inspection of each air pollution control device used to comply with the emission limits, according to 40 CFR §62.16015(c), no later than 12 months following the previous annual air pollution control device inspection. [Permit No. 109-0081; 40 CFR §62.16010(a)]

c. Record Keeping Requirements

i. The Permittee shall maintain the items (as applicable) specified in 40 CFR §§62.16025(a-n) for a period of at least five years. All records shall 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: [Permit No. 109-0081; 40 CFR §62.16025]

(A) *Equipment specifications and operation and maintenance requirements*-Equipment specifications and related operation and maintenance requirements received from vendors for the incinerator, emission controls and monitoring equipment. [40 CFR §62.16025(i)]

(B) *Inspections, calibrations and validation checks of monitoring devices*-Records of inspections, calibration and validation checks of any monitoring devices as required under 40 CFR §§62.16015 and 62.16020. [40 CFR §62.16025(j)]

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)]

18. Operator Training

a. Limitation or Restriction

i. An SSI unit cannot be operated unless a fully trained and qualified SSI unit operator is accessible, either at the facility or can be at the facility within one hour. The trained and qualified SSI unit operator may operate the SSI 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 shall follow the procedures in 40 CFR §62.15945. [Permit No. 109-0081; 40 CFR §62.15920(a)]

ii. Operator training and qualification shall be obtained through a state approved program or by completing the requirements included in 40 CFR §62.15920(c).
[Permit No. 109-0081; 40 CFR §62.15920(b); 40 CFR §62.15930(a)]

iii. Training shall be obtained by completing an incinerator operator training course that includes, at a minimum, the three elements described in 40 CFR §§62.15920(c)(1) through (3):
[40 CFR §62.15920(c)]

(A) Training on the ten subjects listed in 40 CFR §§62.15920(c)(1)(i) through (x):
[40 CFR §62.15920(c)(1)]

(1) Environmental concerns, including types of emissions;

(2) Basic combustion principles, including products of combustion;

(3) Operation of the specific type of incinerator to be used by the operator, including proper startup, sewage sludge feeding and shutdown procedures;

(4) Combustion controls and monitoring;

(5) Operation of air pollution control equipment and factors affecting performance (if applicable);

(6) Inspection and maintenance of the incinerator and air pollution control devices;

(7) Actions to prevent malfunctions or to prevent conditions that may lead to malfunctions;

(8) Bottom and fly ash characteristics and handling procedures;

(9) Applicable federal, state and local regulations, including Occupational Safety and Health Administration workplace standards; and

(10) Pollution prevention.

(B) An examination designed and administered by the state-approved program or instructor administering the subjects in 40 CFR §62.15920(c)(1). [40 CFR §62.15920(c)(2)]

(C) Written material covering the training course topics that may serve as reference material following completion of the course. [40 CFR §62.15920(c)(3)]

iv. The operator training course shall be completed by the later of the three dates specified in 40 CFR §§62.15925(a-c): [40 CFR §62.15925]

(A) The final compliance date;

(B) Six months after the SSI unit startup; and

(C) Six months after an employee assumes responsibility for operating the SSI unit or assumes responsibility for supervising the operation of the SSI unit.

v. Qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under 40 CFR §62.15920(c)(2). [40 CFR §62.15930(b)]

vi. To maintain qualification, the operator shall complete an annual review or refresher course covering, at a minimum, the five topics described in 40 CFR §§62.15935(a-e): [40 CFR §62.15935]

(A) Update of regulations;

(B) Incinerator operation, including startup and shutdown procedures, sewage sludge feeding and ash handling;

(C) Inspection and maintenance;

(D) Prevention of malfunctions or conditions that may lead to malfunction; and

(E) Discussion of operating problems encountered by attendees.

vii. The operator shall renew a lapsed operator qualification before they begin operation of an SSI unit by one of the two methods specified in 40 CFR §§62.15940(a) and (b): [40 CFR §62.15940]

(A) For a lapse of less than three years, the operator shall complete a standard annual refresher course described in 40 CFR §62.15935; and

(B) For a lapse of three years or more, the operator shall repeat the initial qualification requirements in 40 CFR §62.15920.

viii. If a qualified operator is not at the facility and cannot be at the facility within one hour, the Permittee shall meet the criteria specified in either 40 CFR §§62.15945(a) or (b), depending on the length of time that a qualified operator is not accessible. [Permit No. 109-0081; 40 CFR §62.15945]

ix. When a qualified operator is not accessible for more than eight hours, the SSI unit may be operated for less than two weeks by other plant personnel who are familiar with the operation of the SSI unit and who have completed a review of the information specified in 40 CFR §62.15950 within the past 12 months. [40 CFR §62.15945(a)]

b. Monitoring Requirements

Record keeping specified in Section III.B.18.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 record the period when a qualified operator was not accessible and include this deviation in the annual report as specified under 40 CFR §62.16030(c). [40 CFR §62.15945(a)]

ii. The Permittee shall maintain at the facility the documentation of the operator training procedures specified under 40 CFR §62.15920(c)(1) and make the documentation readily accessible to all SSI unit operators. [Permit No. 109-0081; 40 CFR §62.15950(a)]

iii. The Permittee shall establish a program for reviewing the information listed in 40 CFR §62.15920(c)(1) with each qualified incinerator operator and other plant personnel who may operate the unit according to the provisions of 40 CFR §62.15945(a), according to the following schedule: [Permit No. 109-0081; 40 CFR §§62.15950(b)(1) and (2)]

(A) The initial review of the information listed in 40 CFR §62.15920(c)(1) shall be conducted prior to an employee's assumption of responsibilities for operation of the SSI unit; and

(B) Subsequent annual reviews of the information listed in 40 CFR §62.15920(c)(1) shall be conducted no later than 12 months following the previous review.

iv. The Permittee shall maintain the items (as applicable) specified in 40 CFR §§62.16025(a-n) for a period of at least five years. All records shall 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: [Permit No. 109-0081; 40 CFR §62.16025]

(A) *Operator training*-Documentation of the operator training procedures and records specified in 40 CFR §§62.16025(c)(1-4). The Permittee shall make available and readily accessible at the facility at all times for all SSI unit operators the documentation specified in 40 CFR §62.16025(c)(1). Documentation of the following operator training procedures and information: [40 CFR §62.16025(c)(1)(i-x)]

(1) Summary of the applicable standards under 40 CFR Part 62 Subpart LLL.

(2) Procedures for receiving, handling and feeding sewage sludge.

(3) Incinerator startup, shutdown, and malfunction preventative and corrective procedures.

(4) Procedures for maintaining proper combustion air supply levels.

(5) Procedures for operating the incinerator and associated air pollution control systems within the standards established under 40 CFR Part 62 Subpart LLL.

(6) Monitoring procedures for demonstrating compliance with the incinerator operating limits.

(7) Reporting and recordkeeping procedures.

(8) Procedures for handling ash.

(9) A list of the materials burned during the performance test, if in addition to sewage sludge.

(10) For each qualified operator and other plant personnel who may operate the unit according to the provisions of 40 CFR §62.15945(a), the phone and/or pager number

at which they can be reached during operating hours.

(B) Records showing the names of SSI unit operators and other plant personnel who may operate the unit according to the provisions of 40 CFR §62.15945(a), as follows: [40 CFR §62.16025(c)(2)(i) and (ii)]

(1) Records showing the names of SSI unit operators and other plant personnel who have completed review of the information in 40 CFR §62.16025(c)(1) as required by 40 CFR §62.15950(b), including the date of the initial review and all subsequent annual reviews.

(2) Records showing the names of the SSI unit operators who have completed the operator training requirements under 40 CFR §62.15920, met the criteria for qualification under 40 CFR §62.15930, and maintained or renewed their qualification under 40 CFR §62.15935 or 40 CFR §62.15940. Records shall include documentation of training, including the dates of their initial qualification and all subsequent renewals of such qualifications.

(C) Records showing the periods when no qualified operators were accessible for more than eight hours, but less than two weeks, as required in 40 CFR §62.15945(a). [40 CFR §62.16025(c)(3)]

(D) Records showing the periods when no qualified operators were accessible for two weeks or more along with copies of reports submitted as required in 40 CFR §62.15945(b). [40 CFR §62.16025(c)(4)]

d. Reporting Requirements

i. When a qualified operator is not accessible for two weeks or more, the Permittee shall take the two actions that are described in 40 CFR §§62.15945(b)(1) and (2): [40 CFR §62.15945(b)]

(A) Notify the Administrator of this deviation in writing within ten days. In the notice, state what caused this deviation, what the Permittee is doing to ensure that a qualified operator is accessible, and when the Permittee anticipates that a qualified operator will be accessible; and [40 CFR §62.15945(b)(1)]

(B) Submit a status report to the Administrator every four weeks outlining what the Permittee is doing to ensure that a qualified operator is accessible, stating when the Permittee anticipates that a qualified operator will be accessible and requesting approval from the Administrator to continue operation of the SSI unit. The Permittee shall submit the first status report four weeks after the Permittee notifies the Administrator of the deviation under 40 CFR §62.15945(b)(1): [40 CFR §62.15945(b)(2)]

(1) If the Administrator notifies the Permittee that their request to continue operation of the SSI unit is disapproved, the SSI unit may continue operation for 30 days and then shall cease operation; and [40 CFR §62.15945(b)(2)(i)]

(2) Operation of the unit may resume if a qualified operator is accessible as required under 40 CFR §62.15920(a). the Permittee shall notify the Administrator within five days of having resumed operations and of having a qualified operator accessible.

[40 CFR §62.15945(b)(2)(ii)]

ii. The Permittee shall maintain at the facility the documentation of the operator training procedures specified under 40 CFR §62.15920(c)(1) and make the documentation readily accessible to all SSI unit operators. [40 CFR §62.15950(a)]

19. 40 CFR Part 62 Subpart LLL

a. Limitation or Restriction

i. The Permittee shall meet, as applicable, the operating limits and requirements specified in 40 CFR §§62.15960(a-d) and (h), according to the schedule specified in 40 CFR §62.15960(e). The operating parameters for which the Permittee will establish operating limits for a wet scrubber, fabric filter, electrostatic precipitator or activated carbon injection are listed in 40 CFR Part 62 Subpart LLL, Table 4. The Permittee shall comply with the operating requirements in 40 CFR §62.15960(f) and the requirements in 40 CFR §62.15960(g) for meeting any new operating limits, re-established in 40 CFR §62.16005. 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 §62.15960]

(A) The Permittee shall meet the operating limits and requirements specified in 40 CFR §§62.15960 (a-d) by the final compliance date specified in 40 CFR §62.15875. [40 CFR §62.15960(e)]

(B) For the operating limits and requirements specified in 40 CFR §§62.15960 (a-d) and (h), the Permittee shall meet any new operating limits and requirements, re-established according to 40 CFR §62.16005(d); and [40 CFR §62.15960(g)]

(C) If the Permittee uses an air pollution control device other than a wet scrubber, fabric filter, electrostatic precipitator or activated carbon injection to comply with the emission limits in 40 CFR Part 62 Subpart LLL, Table 2, the Permittee shall meet any site-specific operating limits or requirements that the Permittee establishes as required in 40 CFR §62.15965. [40 CFR §62.15960(h)]

ii. If the Permittee uses an air pollution control device other than a wet scrubber, fabric filter, electrostatic precipitator, activated carbon injection, or afterburner, or limit emissions in some other manner (*e.g.*, materials balance) to comply with the emission limits in 40 CFR §62.15955, the Permittee shall meet the requirements in 40 CFR §§62.15965(a) and (b): [40 CFR §62.15965]

(A) Meet the applicable operating limits and requirements in 40 CFR §60.4850, and establish applicable operating limits according to 40 CFR §62.15985; and [40 CFR §62.15965(a)]

(1) The Permittee's petition shall include the following items: [40 CFR §62.15965(b)(2)]

(a) Identification of the specific parameters the Permittee proposes to monitor; [40 CFR §62.15965(b)(2)(i)]

(b) A discussion of the relationship between these parameters and emissions of

regulated pollutants, identifying how emissions of regulated pollutants change with changes in these parameters, and how limits on these parameters will serve to limit emissions of regulated pollutants; [40 CFR §62.15965(b)(2)(ii)]

(c) A discussion of how the Permittee will establish the upper and/or lower values for these parameters that will establish the operating limits on these parameters, including a discussion of the averaging periods associated with those parameters for determining compliance; [40 CFR §62.15965(b)(2)(iii)]

(d) A discussion identifying the methods the Permittee will use to measure and the instruments the Permittee will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and [40 CFR §62.15965(b)(2)(iv)]

(e) A discussion identifying the frequency and methods for recalibrating the instruments the Permittee will use for monitoring these parameters. [40 CFR 62.15965(b)(2)(v)]

iii. 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 §62.15970]

iv. The Permittee shall establish the site-specific operating limits specified in paragraphs 40 CFR §§62.15985(b-h) or established in 40 CFR §62.15965, as applicable, during the Permittee's initial performance tests required in 40 CFR §62.15980. The Permittee shall meet the requirements in 40 CFR §62.16005(d) to confirm these operating limits or re-establish new operating limits using operating data recorded during any performance tests or performance evaluations required in 40 CFR §62.16000. The Permittee shall follow the data measurement and recording frequencies and data averaging times specified in 40 CFR Part 62 Subpart LLL, Table 4 or as established in 40 CFR §62.15965, and The Permittee shall follow the testing, monitoring and calibration requirements specified in 40 CFR §§62.16015 and 62.16020 or established in 40 CFR §62.15965. The Permittee is not required to establish operating limits for the operating parameters listed in 40 CFR Part 62 Subpart LLL, Table 4 for a control device if the Permittee use a continuous monitoring system to demonstrate compliance with the emission limits in 40 CFR Part 62 Subpart LLL, Table 2 for the applicable pollutants. [40 CFR §62.15985(a)]

b. Monitoring and Testing Requirements

i. For each continuous monitoring system, the Permittee's monitoring plan shall address the elements and requirements specified in 40 CFR §§62.15995(a)(1-8). The Permittee shall operate and maintain the continuous monitoring system in continuous operation according to the site-specific monitoring plan. [Permit No. 109-0081; 40 CFR §62.15995(a)]

ii. The Permittee shall meet the requirements of 40 CFR §§62.16000(a) and (b) as applicable, and 40 CFR §§62.16000(c-e), according to the performance testing, monitoring, and calibration requirements in 40 CFR §§62.16015(a) and (b). The Permittee may also petition the Administrator for alternative monitoring parameters as specified in 40 CFR §62.16000(f). [Permit No. 109-0081; 40 CFR §62.16000]

iii. *Demonstrate continuous compliance using a performance test*-Except as provided in 40 CFR §§62.16000 (a)(3) and (e), following the date that the initial performance test for each pollutant in 40 CFR Part 62 Subpart LLL, Table 2 completed, the Permittee shall conduct a performance test for each such pollutant on an annual basis (between 11 and 13 calendar months following the previous performance test). The performance test shall be conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in 40 CFR Part 62 Subpart LLL, Table 2 and according to the testing, monitoring and calibration requirements specified in 40 CFR §62.16015(a). [40 CFR §62.16000(a)]

(A) The Permittee may conduct a repeat performance test at any time to establish new values for the operating limits to apply from that point forward. The Administrator may request a repeat performance test at any time. [40 CFR §62.16000(a)(1)]

(B) The Permittee shall repeat the performance test within 60 days of a process change, as defined in 40 CFR §62.16045. [40 CFR §62.16000(a)(2)]

(C) Except as specified in 40 CFR §§62.16000(a)(1) and (2), the Permittee can conduct performance tests less often for a given pollutant, as specified in paragraphs 40 CFR §§62.16000(a)(3)(i)-(iii). [40 CFR §62.16000(a)(3)]

(1) The Permittee can conduct performance tests less often if the Permittee's performance tests for the pollutant for at least two consecutive years show that the Permittee's emissions are at or below 75% of the emission limit specified in 40 CFR Part 62 Subpart LLL, Table 2, and there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, the Permittee does not have to conduct a performance test for that pollutant for the next two years. The Permittee shall conduct a performance test during the third year and no more than 37 months after the previous performance test. [40 CFR §62.16000(a)(3)(i)]

(2) If the SSI unit continues to meet the emission limit for the pollutant, the Permittee may choose to conduct performance tests for the pollutant every third year if the emissions are at or below 75% of the emission limit, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions, but each such performance test shall be conducted no more than 37 months after the previous performance test. [40 CFR §62.16000(a)(3)(ii)]

(3) If a performance test shows emissions exceeded 75% of the emission limit for a pollutant, the Permittee shall conduct annual performance tests for that pollutant until all performance tests over two consecutive years show compliance. [40 CFR §62.16000(a)(3)(iii)]

iv. *Demonstrate continuous compliance using a continuous emissions monitoring system or continuous automated sampling system*-The option to use a continuous emissions monitoring system for hydrogen chloride, dioxins/furans, cadmium or lead takes effect on the date a final performance specification applicable to hydrogen chloride, dioxins/furans, cadmium or lead is published in the Federal Register**.** The option to use a continuous automated sampling system for dioxins/furans takes effect on the date a final performance specification for such a continuous automated sampling system is published in the Federal Register. Collect data as

specified in 40 CFR §62.16015(b)(6) and use the following procedures:
[40 CFR §62.16000(b)]

(A) To demonstrate continuous compliance with the emission limits for particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans (total mass basis or toxic equivalency basis), mercury, nitrogen oxides, sulfur dioxide, cadmium and lead, the Permittee may substitute the use of a continuous monitoring system in lieu of conducting the annual performance test required in 40 CFR §62.16000(a), as follows:
[40 CFR §62.16000(b)(1)]

(1) The Permittee may substitute the use of a continuous emissions monitoring system for any pollutant specified in 40 CFR §62.16000(b)(1) in lieu of conducting the annual performance test for that pollutant in 40 CFR §62.16000(a).
[40 CFR §62.16000(b)(1)(i)]

(B) If the Permittee uses a continuous emissions monitoring system to demonstrate compliance with an applicable emission limit in 40 CFR §62.16000 (b)(1), the Permittee shall use the continuous emissions monitoring system and follow the requirements specified in 40 CFR §62.16015(b). The Permittee shall measure emissions according to 40 CFR §60.13 to calculate 1-hour arithmetic averages, corrected to 7% O_2 (or carbon dioxide). [40 CFR §62.16000(b)(2)]

(C) Except as provided in 40 CFR §62.16000(e), the Permittee shall complete the periodic performance evaluations required in the monitoring plan for any continuous emissions monitoring systems and continuous automated sampling systems, according to the schedule specified in the monitoring plan. If the Permittee was previously determining compliance by conducting an annual performance test (or according to the less frequent testing for a pollutant as provided in 40 CFR §62.16000(a)(3)), the Permittee shall complete the initial performance evaluation required under the monitoring plan in 40 CFR §62.15995 for the continuous monitoring system prior to using the continuous emissions monitoring system to demonstrate compliance or continuous automated sampling system. The Permittee's performance evaluation shall be conducted using the procedures and acceptance criteria specified in 40 CFR §62.15995(a)(3).
[40 CFR §62.16000(b)(4)]

v. If the Permittee demonstrates continuous compliance using a performance test, as specified in 40 CFR §62.16000(a), then the provisions of 40 CFR §62.16000(e) apply. 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 shall notify the Administrator in writing as specified in 40 CFR §62.16030(f). The Permittee shall conduct the performance test as soon as practicable after the force majeure occurs. The Administrator will determine whether or not to grant the extension to the performance test deadline, and will notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable. Until an extension of the performance test deadline has been approved by the Administrator, the Permittee shall remain strictly subject to the requirements of 40 CFR Part 62 Subpart LLL.
[40 CFR §62.16000(e)]

vi. After any initial requests in 40 CFR §62.15995 for alternative monitoring requirements for initial compliance, the Permittee may subsequently petition the Administrator for alternative monitoring parameters as specified in 40 CFR §§60.13(i) and 40 CFR §62.15995(e).

[40 CFR §62.16000(f)]

vii. The Permittee shall continuously monitor operating parameters as specified in 40 CFR §62.16005(a) and meet the requirements of 40 CFR §§62.16005(b) and (c), according to the monitoring and calibration requirements in 40 CFR §62.16020. The Permittee shall confirm and re-establish operating limits as specified in 40 CFR §62.16005(d).
[Permit No. 109-0081; 40 CFR §62.16005]

(A) The Permittee shall continuously monitor the operating parameters specified in 40 CFR §§62.16005(a)(1) and (2) using the continuous monitoring equipment and according to the procedures specified in 40 CFR §62.16020 or established in 40 CFR §62.15965. To determine compliance, the Permittee shall use the data averaging period specified in 40 CFR Part 62 Subpart LLL, Table 4 (except for alarm time of the baghouse leak detection system) unless a different averaging period is established under 40 CFR §62.15965.
[40 CFR §62.16005(a)]

(1) The Permittee shall demonstrate that the SSI unit meets the operating limits established according to 40 CFR §§62.15965 and 62.15985 and 40 CFR §62.16005(d) for each applicable operating parameter. [40 CFR §62.16005(a)(1)]

(B) Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in 40 CFR §62.16005(a) constitutes a deviation from the operating limits established under 40 CFR Part 62 Subpart LLL, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. [40 CFR §62.16005(b)]

(C) The Permittee shall confirm their operating limits according to 40 CFR §62.16005(d)(1) or re-establish operating limits according to 40 CFR §62.16005(d)(2). The Permittee's operating limits shall be established so as to assure ongoing compliance with the emission limits. These requirements also apply to the operating requirements in the fugitive emissions monitoring plan specified in 40 CFR §62.15960(d).
[40 CFR §62.16005(d)]

(1) The Permittee's operating limits shall be based on operating data recorded during any performance test required in 40 CFR §62.16000(a) or any performance evaluation required in 40 CFR §62.16000(b)(4). [40 CFR §62.16005(d)(1)]

(2) The Permittee may conduct a repeat performance test at any time to establish new values for the operating limits to apply from that point forward.
[40 CFR §62.16005(d)(2)]

viii. The Permittee shall meet, as applicable, the performance testing requirements specified in 40 CFR §62.16015(a), the monitoring requirements specified in 40 CFR §62.1615(b) and the air pollution control device inspections requirements specified in 40 CFR §62.16015(c).
[Permit No. 109-0081; 40 CFR §62.16015]

(A) *Performance testing requirements*- All performance tests shall consist of a minimum of three test runs conducted under conditions representative of normal operations, as specified in 40 CFR §60.8(c). Emissions in excess of the emission limits or standards during periods of startup, shutdown, and malfunction are considered deviations from the

applicable emission limits or standards. [40 CFR §62.16015(a)(1)]

(B) All performance tests shall be conducted using the test methods, minimum sampling volume, observation period, and averaging method specified in 40 CFR Part 62 Subpart LLL, Table 2. [40 CFR §62.16015(a)(3)]

(C) Method 1 at 40 CFR Part 60, Appendix A, shall be used to select the sampling location and number of traverse points. [40 CFR §62.16015(a)(4)]

(D) Method 3A or 3B at 40 CFR Part 60, Appendix A–2, shall be used simultaneously with each method. [40 CFR §62.16015(a)(5)]

(E) All pollutant concentrations shall be adjusted to 7% O_2 using 40 CFR §62.16015(a)(6), Equation 1. [40 CFR §62.16015(a)(6)]

(F) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in 40 CFR Part 62 Subpart LLL unless the Administrator does one of the following. [40 CFR §§62.16015(a)(7)(i-v)]

(1) Specifies or approves, in specific cases, the use of a method with minor changes in methodology.

(2) Approves the use of an equivalent method.

(3) Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance.

(4) Waives the requirement for performance tests because The Permittee has demonstrated by other means to the Administrator's satisfaction that the affected SSI unit is in compliance with the standard.

(5) Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in 40 CFR §62.16015(a)(7) is construed to abrogate the Administrator's authority to require testing under section 114 of the Clean Air Act.

(G) The Permittee shall provide, or cause to be provided, performance testing facilities as follows: [40 CFR §§62.16015(a)(9)(i-iv)]

(1) Sampling ports adequate for the test methods applicable to the SSI unit, as follows:

(a) Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures.

(b) Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

(H) Unless otherwise specified in 40 CFR Part 62 Subpart LLL, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. Compliance with each emission limit shall be determined by calculating the arithmetic mean of the three runs. In the event that a sample is accidentally lost or conditions occur in which one of the three runs shall be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the Permittee's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. [40 CFR §62.16015(a)(10)]

(I) During each test run specified in 40 CFR §62.16015(a)(1), the Permittee shall operate the sewage sludge incinerator at a minimum of 85% of the maximum permitted capacity. [40 CFR §62.16015(a)(11)]

ix. *Continuous monitor requirements*-The Permittee shall meet the following requirements, as applicable, when using a continuous monitoring system to demonstrate compliance with the emission limits in 40 CFR Part 62 Subpart LLL, Table 2. If the Permittee elects to use a continuous emissions monitoring system instead of conducting annual performance testing, the Permittee shall meet the requirements of 40 CFR §§62.16015(b)(1-6). If the Permittee elects to use a continuous automated sampling system instead of conducting annual performance testing, the Permittee shall meet the requirements of 40 CFR §62.16015(b)(7). [40 CFR §62.16015(b)]

(A) If the monitoring system has a malfunction or out-of-control period, the Permittee shall complete repairs and resume operation of the monitoring system as expeditiously as possible. [40 CFR §62.16015(b)(3)(iv)]

x. The Permittee shall install, operate, calibrate and maintain the continuous parameter monitoring systems according to the requirements in paragraphs 40 CFR §62.16020(a)(1). [40 CFR §62.16020(a)]

(A) Meet the following general requirements for flow, pressure, pH and operating temperature measurement devices: [40 CFR §62.16020(a)(1)]

(1) The Permittee shall collect data using the continuous monitoring system at all times the affected SSI unit is operating and at the intervals specified in 40 CFR §62.16020(a)(1)(ii), except for periods of monitoring system malfunctions that occur during periods specified defined in 40 CFR §62.15995(a)(7)(i), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments). Any such periods that the Permittee does not collect data using the continuous monitoring system constitute a deviation from the monitoring requirements and shall be reported in a deviation report. [40 CFR §62.16020(a)(1)(i)]

(2) The Permittee shall collect continuous parameter monitoring system data in accordance with 40 CFR §60.13(e)(2). [40 CFR §62.16020(a)(1)(ii)]

(3) Any data collected during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities shall not be included in calculations used to report emissions or operating levels. Any such periods shall be reported in the Permittee's annual deviation report. [40 CFR §62.16020(a)(1)(iii)]

(4) Any data collected during periods when the monitoring system is out of control as specified in 40 CFR §62.15995(a)(7)(i) shall not be included in calculations used to report emissions or operating levels. Any such periods that do not coincide with a monitoring system malfunction, as defined in 40 CFR §62.16045, constitute a deviation from the monitoring requirements and shall be reported in a deviation report. [40 CFR §62.16020(a)(1)(iv)]

(5) The Permittee shall use all the data collected during all periods except those periods specified in 40 CFR §§62.16020(a)(1)(iii) and (iv) in assessing the operation of the control device and associated control system. [40 CFR §62.16020(a)(1)(v)]

(6) Record the results of each inspection, calibration and validation check. [40 CFR §62.16020(a)(1)(vi)]

(B) The Permittee shall operate and maintain the continuous parameter monitoring systems specified in 40 CFR §62.16020(a) in continuous operation according to the Permittee's monitoring plan required under 40 CFR §60.4880. [40 CFR §62.16020(c)]

c. Record Keeping Requirements

ii. The Permittee shall maintain an onsite copy of the final control plan. [40 CFR §62.15900(b)]

iii. The Permittee shall operate the continuous monitoring system and collect data with the continuous monitoring system as follows: [40 CFR §§62.16015(b)(6)(i)-(v)]

(A) The Permittee shall collect data using the continuous monitoring system at all times the affected SSI unit is operating and at the intervals specified in 40 CFR §62.16015(b)(6)(ii), except for periods of monitoring system malfunctions that occur during periods specified in 40 CFR §62.15995(a)(7)(i), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments). Any such periods that the Permittee does not collect data using the continuous monitoring system constitute a deviation from the monitoring requirements and shall be reported in a deviation report.

(B) The Permittee shall collect continuous emissions monitoring system data in accordance with 40 CFR §60.13(e)(2).

(C) Any data collected during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or

control activities shall not be included in calculations used to report emissions or operating levels. Any such periods shall be reported in a deviation report.

(D) Any data collected during periods when the monitoring system is out of control as specified in 40 CFR §60.4880(a)(7)(i), repairs associated with periods when the monitoring system is out of control, or required monitoring system quality assurance or control activities conducted during out-of-control periods shall not be included in calculations used to report emissions or operating levels. Any such periods that do not coincide with a monitoring system malfunction as defined in 40 CFR §62.16045, constitute a deviation from the monitoring requirements and shall be reported in a deviation report.

(E) The Permittee shall use all the data collected during all periods except those periods specified in 40 CFR §§62.16015(b)(6)(iii) and (iv) in assessing the operation of the control device and associated control system.

iv. The Permittee shall maintain the items (as applicable) specified in 40 CFR §§62.16025(a-n) for a period of at least five years. All records shall 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: [Permit No. 109-0081; 40 CFR §62.16025]

(A) *Date*-Calendar date of each record [40 CFR §62.16025(a)]

(B) *Final control plan and final compliance*-Copies of the final control plan and any additional notifications, reported under 40 CFR §62.16030 [40 CFR §62.16025(b)]

(C) *Air pollution control device inspections*-Records of the results of annual air pollution control device inspections conducted as specified in 40 CFR §62.15990 and 40 CFR §62.16015(c), including any required maintenance and any repairs not completed within ten days of an inspection or the timeframe established by the Administrator [40 CFR §62.16025(d)]

(D) *Performance test reports*-The results of the annual and any subsequent performance tests conducted to determine compliance with the emission limits and standards and/or to establish operating limits, as applicable. [40 CFR §62.16025(e)(1)]

(1) Retain a copy of the complete performance test report, including calculations. [40 CFR §62.16025(e)(2)]

(2) Keep a record of the hourly dry sludge feed rate measured during performance test runs as specified in 40 CFR §62.16015(a)(2)(i). [40 CFR §62.16025(e)(3)]

(3) Keep any necessary records to demonstrate that the performance test was conducted under conditions representative of normal operations, including a record of the moisture content measured as required in 40 CFR §62.16015(a)(2)(ii) for each grab sample taken of the sewage sludge burned during the performance test. [40 CFR §62.16025(e)(4)]

(E) *Continuous monitoring data*-Records of the following data, as applicable: [40 CFR §62.16025(f)]

(1) For continuous automated sampling systems, all average concentrations measured for mercury and dioxins/furans total mass basis at the frequencies specified in the Permittee's monitoring plan. [40 CFR §62.16025(f)(2)]

(2) For other control devices for which the Permittee shall establish operating limits under 40 CFR §62.15965, the Permittee shall maintain data collected for all operating parameters used to determine compliance with the operating limits, at the frequencies specified in the monitoring plan. [40 CFR §62.16025(f)(3)(iv)]

(F) *Other* records *for continuous monitoring systems*-The Permittee shall keep the following records, as applicable: Keep records of any notifications to the Administrator in 40 CFR §60.4915(h)(1) of starting or stopping use of a continuous monitoring system for determining compliance with any emissions limit. [40 CFR §62.16025(g)(1)]

(G) *Deviation reports*-Records of any deviation reports submitted under 40 CFR §62.16030(e) and (f). [40 CFR §62.16025(h)]

(H) *Monitoring plan and performance evaluations for continuous monitoring systems*-Records of the monitoring plans required under 40 CFR §62.15995, and records of performance evaluations required under 40 CFR §62.16000(b)(5). [40 CFR §62.16025(k)]

(I) *Less frequent testing*-If, consistent with 40 CFR §62.16000(a)(3), the Permittee elects to conduct performance tests less frequently than annually, the Permittee shall keep annual records that document that the emissions in the two previous consecutive years were at or below 75% of the applicable emission limit in 40 CFR Part 62 Subpart LLL, Table 1 or 2, 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 §62.16025(l)]

(J) If a malfunction occurs, the Permittee shall keep a record of the information submitted in the annual report in 40 CFR §62.16030(c)(16). [40 CFR §62.16025(n)]

d. Reporting Requirements

i. The Permittee shall update and resubmit their monitoring plan if there are any changes or potential changes in the monitoring procedures or if there is a process change, as defined in 40 CFR §62.16045. [Permit No. 109-0081; 40 CFR §62.15995(h)]

ii. The Permittee shall submit the deviation report specified in 40 CFR §62.16030(d) for each instance that they did not meet one of the operating limits established under 40 CFR Part 62 Subpart LLL. [40 CFR §62.16005(b)]

iii. The Permittee shall submit the annual compliance report specified in 40 CFR §62.16030(c) to demonstrate continuous compliance. [40 CFR §62.16005(c)]

iv. The Permittee shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to

have an observer present. If after 30 days' notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the Permittee shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least seven days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement. [40 CFR §62.16015(a)(8)]

v. The Permittee shall notify the Administrator one month before starting use of the continuous emissions monitoring system. [40 CFR §62.16015(b)(1)]

vi. The Permittee shall notify the Administrator one month before stopping use of the continuous emissions monitoring system, in which case the Permittee shall also conduct a performance test within prior to ceasing operation of the system. [40 CFR §62.16015(b)(2)]

vii. *Annual compliance report*-The Permittee shall submit an annual compliance report that includes the items listed in 40 CFR §§62.16030(c)(1-16) for the reporting period specified in 40 CFR §62.16030(c)(3). The Permittee shall submit subsequent annual compliance reports no more than 12 months following the previous annual compliance report.
[Permit No. 109-0081; 40 CFR §62.16000(d); 40 CFR §62.16030(c); 40 CFR Part 62 Subpart LLL, Table 6]

(A) Company name, physical address and mailing address. [40 CFR §62.16030(c)(1)]

(B) Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report. [40 CFR §62.16030(c)(2)]

(C) Date of report and beginning and ending dates of the reporting period.
[40 CFR §62.16030(c)(3)]

(D) If a performance test was conducted during the reporting period, the results of that performance test. [40 CFR §62.16030(c)(4)]

(1) If operating limits were established during the performance test, include the value for each operating limit and, as applicable, the method used to establish each operating limit, including calculations. [40 CFR §62.16030(c)(4)(i)]

(E) For each pollutant and operating parameter recorded using a continuous monitoring system, the highest average value and lowest average value recorded during the reporting period, as follows: [40 CFR §62.16030(c)(5)]

(1) For continuous emission monitoring systems and continuous automated sampling systems, report the highest and lowest 24-hour average emission value.
[40 CFR §62.16030(c)(5)(i)]

(2) For continuous parameter monitoring systems, report the following values:
[40 CFR §62.16030(c)(5)(ii)]

(a) For all operating parameters except scrubber liquid pH, the highest and lowest 12-hour average values. [40 CFR §62.16030(c)(5)(ii)(A)]

(b) For scrubber liquid pH, the highest and lowest 3-hour average values. [40 CFR §62.16030(c)(5)(ii)(B)]

(F) If there are no deviations during the reporting period from any emission limit, emission standard or operating limit that applies, a statement that there were no deviations from the emission limits, emission standard or operating limits. [40 CFR §62.16030(c)(6)]

(G) If a performance evaluation of a continuous monitoring system was conducted, the results of that performance evaluation. If new operating limits were established during the performance evaluation, include the calculations for establishing those operating limits. [40 CFR §62.16030(c)(8)]

(H) If the Permittee elects to conduct performance tests less frequently as allowed in 40 CFR §62.16000(a)(3) and did not conduct a performance test during the reporting period, the Permittee shall include the dates of the last two performance tests, a comparison of the emission level achieved in the last two performance tests to the 75% emission limit threshold specified in 40 CFR §62.16000(a)(3), and a statement as to whether there have been any process changes and whether the process change resulted in an increase in emissions. [40 CFR §62.16030(c)(9)]

(I) Documentation of periods when all qualified sewage sludge incineration unit operators were unavailable for more than eight hours, but less than two weeks. [40 CFR §62.16030(c)(10)]

(J) Results of annual air pollution control device inspections recorded under 40 CFR §62.16025(d) for the reporting period, including a description of repairs. [40 CFR §62.16030(c)(11)]

(K) If there were no periods during the reporting period when the continuous monitoring systems had a malfunction, a statement that there were no periods during which the continuous monitoring systems had a malfunction. [40 CFR §62.16030(c)(12)]

(L) If there were no periods during the reporting period when a continuous monitoring system was out of control, a statement that there were no periods during which the continuous monitoring systems were out of control. [40 CFR §62.16030(c)(13)]

(M) If there were no operator training deviations, a statement that there were no such deviations during the reporting period. [40 CFR §62.16030(c)(14)]

(N) If the Permittee did not make revisions to the site-specific monitoring plan during the reporting period, a statement that the Permittee did not make any revisions to the site-specific monitoring plan during the reporting period. If the Permittee made revisions to the site-specific monitoring plan during the reporting period, a copy of the revised plan. [40 CFR §62.16030(c)(15)]

(O) If the Permittee had a malfunction during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction that occurred during the reporting period and that caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by the Permittee during a malfunction of an affected source to minimize

emissions in accordance with 40 CFR §60.11(d), including actions taken to correct a malfunction. [40 CFR §62.16030(c)(16)]

viii. *Deviation reports*-The Permittee shall submit a deviation report if:
[Permit No. 109-0081; 40 CFR §62.16000(d); 40 CFR §§62.16030(d)(1)(i), (iii-vii); 40 CFR Part 62 Subpart LLL, Table 6]

(A) Any recorded operating parameter, based on the averaging time specified in 40 CFR Part 62 Subpart LLL, Table 4, is above the maximum operating limit or below the minimum operating limit established under 40 CFR Part 62 Subpart LLL.
[40 CFR §62.16030(d)(1)(i)]

(B) Any recorded 24-hour block average emissions level is above the emission limit, if a continuous monitoring system is used to comply with an emission limit.
[40 CFR §62.16030(d)(1)(iii)]

(C) There are visible emissions of combustion ash from an ash conveying system for more than 5% of any compliance test hourly observation period.
[40 CFR §62.16030(d)(1)(i), (iv)]

(D) A performance test was conducted that deviated from any emission limit in 40 CFR Part 62 Subpart LLL, Table 2. [40 CFR §62.16030(d)(1)(v)]

(E) A continuous monitoring system was out of control. [40 CFR §62.16030(d)(1)(vi)]

(F) The Permittee had a malfunction (e.g., continuous monitoring system malfunction) that caused or may have caused any applicable emission limit to be exceeded.
[40 CFR §62.16030(d)(1)(vii)]

(G) The deviation report shall be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31).
[Permit No. 109-0081; 40 CFR §62.16030(d)(2); 40 CFR Part 62 Subpart LLL, Table 6]

(H) For each deviation where the Permittee is using a continuous monitoring system to comply with an associated emission limit, report the items described in 40 CFR §§62.16030(d)(3)(i-viii).
[Permit No. 109-0081; 40 CFR §62.16030(d)(3); 40 CFR Part 62 Subpart LLL, Table 6]

(1) Company name, physical address and mailing address. [40 CFR §62.16030(d)(3)(i)]

(2) Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report. [40 CFR §62.16030(d)(3)(ii)]

(3) The calendar dates and times the unit deviated from the emission limits, emission standards or operating limits requirements. [40 CFR §62.16030(d)(3)(iii)]

(4) The averaged and recorded data for those dates. [40 CFR §62.16030(d)(3)(iv)]

(5) Duration and cause of each deviation from the following:
[40 CFR §62.16030(d)(3)(v)]

(a) Emission limits, emission standards, operating limits and corrective actions.
[40 CFR §62.16030(d)(3)(v)(A)]

(6) Dates, times and causes for monitor downtime incidents.
[40 CFR §62.16030(d)(3)(vi)]

(7) A copy of the operating parameter monitoring data during each deviation and any test report that documents the emission levels.
[40 CFR §62.16030(d)(3)(vii)]

(8) If there were periods during which the continuous monitoring system malfunctioned or was out of control, the Permittee shall include the following information for each deviation from an emission limit or operating limit:
[40 CFR §62.16030(d)(3)(viii)]

(a) The date and time that each malfunction started and stopped.
[40 CFR §62.16030(d)(3)(viii)(A)]

(b) The date, time and duration that each continuous monitoring system was inoperative, except for zero (low-level) and high-level checks.
[40 CFR §62.16030(d)(3)(viii)(B)]

(c) The date, time and duration that each continuous monitoring system was out of control, including start and end dates and hours and descriptions of corrective actions taken. [40 CFR §62.16030(d)(3)(viii)(C)]

(d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction, during a period when the system as out of control or during another period.
[40 CFR §62.16030(d)(3)(viii)(D)]

(e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period. [40 CFR §62.16030(d)(3)(viii)(E)]

(f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes and other unknown causes.
[40 CFR §62.16030(d)(3)(viii)(F)]

(g) A summary of the total duration of continuous monitoring system downtime during the reporting period, and the total duration of continuous monitoring system downtime as a percent of the total operating time of the SSI unit at which the continuous monitoring system downtime occurred during that reporting period. [40 CFR §62.16030(d)(3)(viii)(G)]

(h) An identification of each parameter and pollutant that was monitored at the SSI unit. [40 CFR §62.16030(d)(3)(viii)(H)]

(i) A brief description of the SSI unit. [40 CFR §62.16030(d)(3)(viii)(I)]

(j) A brief description of the continuous monitoring system. [40 CFR §62.16030(d)(3)(viii)(J)]

(k) The date of the latest continuous monitoring system certification or audit. [40 CFR §62.16030(d)(3)(viii)(K)]

(l) A description of any changes in continuous monitoring system, processes, or controls since the last reporting period. [40 CFR §62.16030(d)(3)(viii)(L)]

ix. *Qualified operator deviation*-If all qualified operators are not accessible for two weeks or more, the Permittee shall take the two actions in 40 CFR §§62.16030(e)(1)(i) and (ii). [Permit No. 109-0081; 40 CFR §62.16030(e)(1); 40 CFR Part 62 Subpart LLL, Table 6]

(A) Submit a notification of the deviation within ten days that includes the following items: [40 CFR §62.16030(e)(1)(i)]

(1) A statement of what caused the deviation. [40 CFR §62.16030(e)(1)(i)(A)]

(2) A description of actions taken to ensure that a qualified operator is accessible. [40 CFR §62.16030(e)(1)(i)(B)]

(3) The date when the Permittee anticipates that a qualified operator will be available. [40 CFR §62.16030(e)(1)(i)(C)]

(B) Submit a status report to the Administrator every four weeks that includes the following items: [40 CFR §62.16030(e)(1)(ii)]

(1) A description of actions taken to ensure that a qualified operator is accessible. [40 CFR §62.16030(e)(1)(ii)(A)]

(2) The date when the Permittee anticipates that a qualified operator will be accessible. [40 CFR §62.16030(e)(1)(ii)(B)]

(3) Request for approval from the Administrator to continue operation of the SSI unit. [40 CFR §62.16030(e)(1)(ii)(C)]

(C) If the unit was shut down by the Administrator, under the provisions of 40 CFR §62.15945(b)(2)(i), due to failure to provide and accessible qualified operator, the Permittee shall notify the Administrator within five days of meeting 40 CFR §62.15945(b)(2)(ii) that the Permittee is resuming operation. [Permit No. 109-0081; 40 CFR §62.16030(e)(2); 40 CFR Part 62 Subpart LLL, Table 6]

x. *Notification of a force majeure*-If a force majeure is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure:

[Permit No. 109-0081; 40 CFR §62.16000(e); 40 CFR §§62.16030(f); 40 CFR Part 62 Subpart LLL, Table 6]

(A) The Permittee shall notify the Administrator, in writing as soon as practicable following the date the Permittee first knew, or through the diligence, should have known that the event may cause or caused a delay in conducting a performance test beyond the regulatory deadline, but the notification shall occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable.
[40 CFR §62.16030(f)(1)]

(B) The Permittee shall provide to the Administrator a written description of the force majeure event and rationale for attributing the delay in conducting the performance test beyond the regulatory deadline to the force majeure; describe the measures take or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. [40 CFR §62.16030(f)(2)]

xi. *Other notifications and reports required*-The Permittee shall submit other notifications as provided by 40 CFR §60.7 and as follows:
[Permit No. 109-0081; 40 CFR §62.16030(g); 40 CFR Part 62 Subpart LLL, Table 6]

(A) The Permittee shall notify the Administrator one month before starting or stopping use of a continuous monitoring system for determining compliance with any emission limit.
[40 CFR §62.16030(g)(1)]

(B) The Permittee shall notify the Administrator at least 30 days prior to any performance test conducted to comply with the provisions of 40 CFR Part 62 Subpart LLL, to afford the Administrator the opportunity to have an observer present. [40 CFR §62.16030(g)(2)]

(C) As specified in 40 CFR §62.16015(a)(8), the Permittee shall 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 §62.16030(g)(2). [40 CFR §62.16030(g)(3)]

xii. *Report submission form*-Submit annual and deviation reports electronically or in paper format, postmarked on or before the submittal due dates.
[Permit No. 109-0081; 40 CFR §62.16030(h)(1)]

(A) Submit performance tests and evaluations according to 40 CFR §§62.16030(h)(2)(i) and (ii). [40 CFR §62.16030(h)(2)]

(1) Within 60 days after the date of completing each performance test (see 40 CFR §60.8) required by 40 CFR Part 62 Subpart LLL, the Permittee shall submit the results of the performance test according to the method specified by either 40 CFR §62.16030(h)(2)(i)(A) or (B). [40 CFR §62.16030(h)(2)(i)]

(a) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (*http://www.epa.gov/ttn/chief/ert/index.html*), at the time of the test, , the Permittee shall submit the results of the performance test to the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through

the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*).) Performance test data shall be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. If , the Permittee claims that some of the performance test information being transmitted is confidential business information (CBI), , the Permittee shall submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disk, flash drive, or other commonly used electronic storage media to the EPA. The electronic media shall be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404–02, 4930 Old Page Rd., Durham, NC 27703. The same ERT file with the CBI omitted shall be submitted to the EPA via CDX as described earlier in 40 CFR §62.16030(h)(2)(i)(A). [40 CFR §62.16030(h)(2)(i)(A)]

(b) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site, the Permittee shall submit the results of the performance test to the Administrator at the appropriate address listed in 40 CFR §60.4. [40 CFR §62.16030(h)(2)(i)(B)]

(B) Within 60 days after the date of completing each CEMS performance evaluation (as defined in 40 CFR §63.2), the Permittee shall submit the results of the performance evaluation according to the method specified by either 40 CFR §62.16030(h)(2)(ii)(A) or (B). [40 CFR §62.16030(h)(2)(ii)]

(1) For performance evaluations of continuous monitoring systems measuring relative accuracy test audit (RATA) pollutants that are supported by the EPA's ERT as listed on the EPA's ERT Web site, the Permittee shall submit the results of the performance evaluation via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) Performance evaluation data shall be submitted in a file format generated through the use of the EPA's ERT or an alternate file format consistent with the XML schema listed on the EPA's ERT Web site. If the Permittee claims that some of the performance evaluation information being transmitted is CBI, the Permittee shall submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disk, flash drive, or other commonly used electronic storage media to the EPA. The electronic storage media shall be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404–02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file with the CBI omitted shall be submitted to the EPA via CDX as described earlier in 40 CFR §62.16030(h)(2)(ii)(A). [40 CFR §62.16030(h)(2)(ii)(A)]

(2) For any performance evaluations of continuous monitoring systems measuring RATA pollutants that are not supported by the EPA's ERT as listed on the EPA's ERT Web site, the Permittee shall submit the results of the performance evaluation to the Administrator at the appropriate address listed in 40 CFR §60.4. [40 CFR §62.16030(h)(2)(ii)(B)]

xiii. *Changing report dates*-If the Administrator agrees, the Permittee may change the semiannual or annual reporting dates. See 40 CFR §60.19(c) for procedures to seek approval to change the Permittee's reporting date. [40 CFR §62.16030(h)(3)]

C. GEU-002 (Tanks)
Permit or Regulation Number: RCSA §22a-174-20

1. VOC

a. Limitation or Restriction

i. The Permittee shall not place, store, or hold in any stationary storage vessel of more than 250-gallon (950 liter) capacity any VOC with a vapor pressure of 0.75 pounds per square inch or greater under standard conditions unless such vessel is equipped with a permanent submerged fill pipe or is a pressure tank as described in RCSA §22a-174-20(a)(2)(A) (i.e. The tank is a pressure tank capable of maintaining working pressures sufficient at all times to prevent vapor or gas loss to the atmosphere). Submerged fill pipes installed on or prior to the effective date of RCSA §22a-174-20 shall have a discharge point no more than 18 inches from the bottom of the storage tank or be compliant with the requirements of 40 CFR Part 63 Subpart CCCCCC. Submerged fill pipes installed after the effective date of RCSA §22a-174-20 shall have a discharge point no more than six inches from the bottom of the storage tank.
[RCSA §22a-174-20(a)(5)]

ii. The external surfaces of any storage tank containing VOCs with a vapor pressure of 0.75 pounds per square inch or greater under standard conditions that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun shall be either mill-finished aluminum or painted and maintained white upon the next painting of the tank or by March 7, 2024, whichever is sooner. The external surfaces of any storage tank that is brought into service after the effective date of RCSA §22a-174-20, that has a maximum capacity of 2,000 gallons or greater and that is exposed to the rays of the sun shall be either mill-finished aluminum or painted and maintained white prior to being filled with any VOC with a vapor pressure of 0.75 pounds per square inch or greater under standard conditions. The requirement to use mill-finished aluminum or white paint shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20% of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less.
[RCSA §22a-174-20(a)(7)]

iii. The Permittee shall perform degassing and cleaning as set out as follows:
[RCSA §22a-174-20(a)(9)]

(A) Notwithstanding RCSA §22a-174-20(a)(9)(A), the Permittee may degas an aboveground storage tank at any time for the purpose of performing a repair that is necessary for safe and proper function of the tank. [RCSA §22a-174-20(a)(9)(B)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

i. The Permittee shall maintain records including, at a minimum, the information described in RCSA §22a-174-20(a)(10)(B). All such records shall be: [RCSA §22a-174-20(a)(10)(a)]

(A) Made available to the commissioner to inspect and copy upon request; and [RCSA §22a-174-20(a)(10)(a)(i)]

(B) Maintained for five years from the date such record is created. [RCSA §22a-174-20(a)(10)(a)(ii)]

ii. The Permittee shall maintain records of the following information: [RCSA §22a-174-20(a)(10)(a)(B)]

(A) Dates of all tank degassing activities performed pursuant to RCSA §22a-174-20(a)(9)(B); and [RCSA §22a-174-20(a)(10)(a)(B)(vi)]

(B) Any approval by the commissioner or Administrator issued pursuant to RCSA §22a-174-20. [RCSA §22a-174-20(a)(10)(a)(B)(viii)]

d. Reporting Requirements

i. The Permittee shall notify the commissioner when a tank is emptied and degassed under RCSA §22a-174-20(a)(9)(B) within 72 hours of completing the degassing and repair. Such notification shall be submitted to the Compliance Assistance and Coordination Unit of the Bureau of Air Management and shall include the following information: [RCSA §22a-174-20(a)(9)(B)]

(A) Identification of the facility and the tank degassed; [RCSA §22a-174-20(a)(9)(B)(i)]

(B) Identification of the VOC stored; [RCSA §22a-174-20(a)(9)(B)(ii)]

(C) An explanation of the need to degas the tank during the period from June 1 through August 31; [RCSA §22a-174-20(a)(9)(B)(iii)]

(D) The date the Permittee determined that degassing and repair would be necessary; [RCSA §22a-174-20(a)(9)(B)(iv)]

(E) The dates that degassing commenced and was completed; and [RCSA §22a-174-20(a)(9)(B)(v)]

(F) The date that inspection, repair and refilling was or is anticipated to be completed. [RCSA §22a-174-20(a)(9)(B)(vi)]

D. GEU-005 (Boilers, < 5 MMBtu/hr)
Permit or Regulation Number: RCSA §22a-174-18 and RCSA §22a-174-19b

1. Fuel Sulfur Content

a. Limitation or Restriction

The Permittee shall not combust fuel in a stationary source that contains sulfur in excess of the applicable limitation set forth in RCSA §22a-174-19b, Table 19b-1 (i.e. 15 ppm (0.0015%) by weight), except as provided in in RCSA §§22a-174-19b(c) or (e). [RCSA §22a-174-19b(d)(2)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient to satisfy the requirements of RCSA §22a-174-19b(g) if the certification or contract identifies: [RCSA §22a-174-19b(g)(3)(A-D)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

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

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

ii. All records made to demonstrate compliance with the requirements of RCSA §22a-174-19b shall be: [RCSA §22a-174-19b(g)(4)(A) and (B)]

(A) Made available to the commissioner to inspect and copy upon request; and

(B) Maintained for five years from the date such record is created.

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. Opacity

a. Limitation or Restriction

i. The Permittee shall not exceed the following visible emissions limits: [RCSA §22a-174-18(b)(1)]

(A) 20% opacity during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9; or [RCSA §22a-174-18(b)(1)(A)]

(B) 40% opacity as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one-minute block average [RCSA §22a-174-18(b)(1)(B)]

b. Monitoring Requirements

Record keeping specified in Section III.D.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

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.D.2.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)]

E. 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.

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. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.

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-174-22e.

18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).

19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).

20. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.

21. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

THERE IS NO COMPLIANCE SCHEDULE

Section V: State Enforceable Terms and Conditions

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

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

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

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

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

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

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

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

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

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or

2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:

i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,

ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and

iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

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

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

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

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

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

1. Each deviation caused by upset or control equipment deficiencies; and

2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V permit, which has occurred since the date of the last monitoring report; and

3. Each deviation caused by a failure of the monitoring system to provide reliable data.

Section VI: Title V Requirements

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.

Section VI: Title V Requirements

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

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

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

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

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

1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and

2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

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

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

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

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

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

This Title V permit shall not be deemed to:

1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and -33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;

2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;

3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or

4. Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and -33(g)(3)(B) unless imposition of such limits is required by an applicable requirement.

Section VI: Title V Requirements

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Constitute a modification under 40 CFR Part 60, 61 or 63;

2. Exceed emissions allowable under the subject permit;

3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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

Section VI: Title V Requirements

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.

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

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