Connecticut
Department of Energy &
Environmental Protection

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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	117-0379-TV
Client/Sequence/Town/Premises Numbers	**8281/1/117/0960**
Date Issued	
Expiration Date	

Corporation:

Greater New Haven Water Pollution Control Authority (GNHWPCA)

Premises Location:

345 East Shore Parkway, New Haven, Connecticut 06511

Name of Responsible Official and Title:

Gary Zrelak, Director of Operations

All the following attached pages, 2 through 65, are hereby incorporated by reference into this Title V permit.

Emma Cimino
Acting Commissioner

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*
^{o}C	Degree Celsius
^{o}F	Degree Fahrenheit
acfm	Actual cubic feet per minute
AOS	Alternative Operating Scenario
ASC	Actual Stack Concentration
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CP/OP	Construction Permit/Operating Permit
DEEP	Department of Energy and Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
FLER	Full Load Emission Rate
GEU	Grouped Emissions Unit
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
hr	Hour
lb	Pound
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_2	Nitrogen Dioxide
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 microns
$PM_{2.5}$	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
PTE	Potential to Emit

LIST OF ABBREVIATIONS/ACRONYMS, continued

Abbreviation/Acronym	*Description*
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SOx	Sulfur Oxides
SOS	Standard Operating Scenario
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

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A. PREMISES INFORMATION

Nature of Business: Greater New Haven Water Pollution Control Authority
Primary SIC: 4952 (East Shore Water Pollution Abatement Facility)
Other SIC: 4953 (Sewage Sludge Incinerator)

Facility Mailing Address: 260 East Street New Haven, Connecticut 06511
Telephone Number: 203-466-5280

B. PREMISES DESCRIPTION

The Greater New Haven Water Pollution Control Authority (GNHWPCA) owns and operates the East Shore Water Pollution Abatement Facility. The facility is a municipal wastewater treatment facility with a Zimpro Multiple Hearth Incinerator located at 345 East Shore Parkway in New Haven, CT. The multiple hearth incinerator is a sewage sludge incinerator (SSI), which processes sewage sludge generated by the GNHWPCA and functions as a regional sludge disposal facility, accepting sludge derived from industrial and commercial wastewater, and private treatment plants, all originating in Connecticut. In addition to sludge, the SSI is equipped with auxiliary burner systems designed to fire natural gas. The incinerator is also capable of firing biofuels derived from animal or vegetable fats, oil, and greases (FOG).

The SSI is equipped with an air pollution control system consisting of an adjustable throat venturi scrubber, a three plate impingement wet tray scrubber, a wet tubular electrostatic precipitator (ESP), and a regenerative thermal oxidizer. The exhaust from the air pollution control system is vented to the atmosphere through a stack 190 feet above grade.

The GNHWPCA currently has a New Source Review (NSR) permit (No. 117-0035) for its SSI. The SSI, besides being subject to the limitations and restrictions in Permit No. 117-0035, is subject to the following federal regulations:

40 CFR Part 62, LLL “Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010”

40 CFR Part 60, Subpart O “Standards of performance for Sewage Treatment Plants”

40 CFR Part 503, Subpart E “Technical Standards for the Use or Disposal of Sewage Sludge: Incineration”

40 CFR Part 61, Subpart C “National Emissions Standard for Beryllium (Be)”

40 CFR Part 61, Subpart E “National Emission Standard for Mercury (Hg)”

There are two Caterpillar Model 3516 Diesel 2 MW emergency generators operating under RCSA §22a-174-3b. These units are not subject 40 CFR Subpart ZZZZ in accordance with 40 CFR 63.6585(f)(3), as they are existing emergency engines at an area source of HAPs that do not operate for the purposes specified in 40 CFR 53,6640(f)(4(ii). These units are listed in Section II and III of this Title V permit.

There is a solvent cold cleaner unit. This unit has an internal volume greater than one liter and uses solvents containing greater than five percent VOC by weight. Therefore, it is subject to RCSA §22a-174-20(l)(3). This unit is listed in Section II and III of this Title V permit.

Other units operating at the facility include three HB Smith boilers, AO Smith water heater, a wastewater treatment source with hypochlorite/caustic scrubbers, six Carrier/Heatco Model HEO250 HVAC duct heaters, and a Modine propane unit heater None of these units have permits or registrations or specific applicable requirements; they are therefore not listed in Section II of the Title V permit. They are subject to all applicable requirements in Title V Section III.C "Premise Wide General Requirements"

GNWPCA is a Title V source pursuant to RCSA §22a-174-33(10)(A) and (B), as well as RCSA §22a-174-33(a)(10)(F)(iii) for NOx having potential emissions of greater than 25 tons per year in a severe ozone-nonattainment area.

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A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION

Emissions Unit/ Grouped Emissions Unit	Emissions Unit Description	Control Unit Description	Monitoring Unit Description	Permit, Order, Registration, or Regulation Number
EU-2	**Zimpro Multiple Hearth Sewage Sludge** Incinerator (SSI) Installed: 1976 Number of Hearths 7 Minimum Design Oxygen Content in Exhaust (% dry basis): 2 Maximum Rated Capacity: 2.7 DT/hr **Auxiliary Burner/FOG Systems** Make: 10 - Fives North American Company Burners Model No. 4419-7-B with 10 burners These burners are located in hearths No. 1, 3, and 7 Fuel Type: Natural Gas Maximum Gross Heat Input: 3.6 MBtu/hr each burner. Total Capacity: 36 MMBtu/hr Make: 4 - Fives North American Company Burners Model No. 4419-6-B with 6 burners These burners are located in hearths No. 5. Fuel Type: Natural Gas Maximum Gross Heat Input: 1.6 MMBtu/hr each burner. Total Capacity 6.4 MMBtu/hr FOG Unit Fuel Type: FOG derived from animal	**Adjustable Throat Venturi Scrubber System** Make: A Duncon Adjustable Throat Venturi Scrubber and a Peabody 3-Plate Impingement Tray Scrubber. **Electrostatic Precipitator (ESP)** Make: Beltran Wet Tubular ESP Minimum Voltage (kVdc): 10 Minimum Current (mAdc): 40 **Thermal Oxidizer** Make: GraceTec Enterprise III Operating Temp. Range (°F) 1500-1700	CO CEM	Permit No. 117-0035 40 CFR Part 62, Subpart LLL 40 CFR Part 60, Subpart O 40 CFR Part 503, Subpart E 40 CFR Part 61, Subpart C 40 CFR Part 61, Subpart E CGS §22a-191a

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit/ Grouped Emissions Unit	**Emissions Unit Description**	**Control Unit Description**	**Monitoring Unit Description**	**Permit, Order, Registration, or Regulation Number**
	or vegetable fats, or Natural gas Maximum gross Heat Input: 42.4 MMBtu/hr			
EU-8	Solvent Cold Cleaning Unit It has a Internal Volume of greater than one liter.	None	None	RCSA 22a-174-20(l)(3)
GEU-1	Two 2 MW Caterpillar Model 3516 Tier 2 - Diesel Emergency Generators (EU-1 & EU-9) Fuel Firing Capacity: 138 gal/hr HP: 2000 Installed 2015	None	None	RCSA 22a-174-3b RCSA 22a-174-22e RCSA 22a-174-19b RCSA 22a-174-18

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	**Emissions Units Associated with the Scenario**	**Description of Scenario**
SOS	EU-2	The Permittee operates the Zimpro Multiple Hearth SSI by using sewage sludge as the primary fuel and natural gas and FOG (fats, oils and greases) as auxiliary fuel
SOS	GEU-1: EU1 and EU-9	The Permittee operates two emergency generators in support of facility operations.
SOS	EU-8	The Permittee operates a solvent cold cleaning unit in support of facility operations.

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

A. EMISSIONS UNIT 1 (EU-2) - Zimpro Multiple Hearth Sewage Sludge Incinerator (SSI)

(Permit No. 117-0035)

1. Primary Fuels and Sludge Charging Rate

a. Limitation or Restriction

i. Sewage sludge is the primary fuel to be fired in this unit. Sewage sludge, for purposes of this permit, is defined as any solid, semi-solid or liquid residue removed during the treatment of municipal or private wastewater and domestic sewage. Sewage sludge includes, but is not limited to, solids removed during primary, secondary or advanced wastewater treatment, scum, septage, portable toilet pumping and sewage products. Any substance which is considered "municipal-type solid waste" as defined in Title 40 of the Code of Federal Regulations (CFR) 40 CFR §60.51a, or "hazardous waste," as defined in 22a-115 of the Connecticut General Statues, is prohibited from being introduced to this unit. [P 117-0035]

ii. Maximum Hourly Dry Solids Charge Rate: 2.7 tons dry solids. [P 117-0035]

iii. Maximum Hourly Wet Charge Rate: 9.0 wet tons. [P 117-0035]

b. Monitoring and Testing Requirements

i. The Permittee shall install, calibrate, maintain, and operate a flow measuring device which can be used to determine the mass sludge charged to the SSI. The flow measuring device shall be certified by the manufacturer to have accuracy of plus or minus 5 percent over its operating range. [P 117-0035; 40CFR §60.153(a)(1)]

ii. The Permittee shall install, calibrate, maintain, and operate temperature measuring devices at every hearth of the SSI. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of ±5 percent over its operating range. [P 117-0035; 40 CFR §60.153(b)(3); 40 CFR §503.45(d)]

iii. The Permittee shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained. [P 117-0035; 40 CFR §60.153(a)(2)]

iv. The Permittee must monitor the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator as follows:

(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)]

v. The Permittee shall collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content of the sample shall be determined in accordance with the method specified under 40 CFR §60.154(b)(5), except that the determination of volatile solids, step (3)(b) of the method, may not be deleted. [P 117-0035; 40 CFR §60.153(b)(5)]

c. Record Keeping Requirements

i. The Permittee shall determine and maintain records of the hourly dry sludge feed rate [DT/hr} in accordance with the following procedures, as applicable. [P 117-0035]

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

(B) The Permittee shall determine the daily average dry solids hourly feed rate (DT/hr) by averaging the day's hourly feed rates.

(C) The charge rate of 2.7 dry tons/hr shall be calculated on a monthly basis by dividing the total dry tons charged to the SSI in a calendar month by the number of hours sludge was charged to the incinerator in the same calendar month.

(D) The Permittee shall keep records of daily, monthly, and consecutive 12-month quantity of sludge combusted (DT).

(E) The Permittee shall make these calculations within 30 days of the end of each month

ii. The Permittee shall keep records of the analysis of the daily grab sample for total solids and volatile solids content of the sludge charged to the SSI. [P 117-0035]

iii. The Permittee must make and keep a record of:

(A) the daily average feed rate of sewage sludge fed to the SSI. [40 CFR §62.16025(f)(3)(ii)]

(B) the daily average moisture content of sewage sludge fed to the SSI.[40 CFR §62.16025(f)(3)(ii)]

iv. The Permittee must 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)]

v. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit to the commissioner upon request. [P 117-0035]

d. Reporting Requirements

i. The Permittee shall submit, to the commissioner, reports of the results of all performance tests conducted for this SSI. [P 117-0035]

ii. 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. Auxiliary Fuel Burning Systems

a. Limitation or Restriction

i. 10 - Fives North American Model No. 4419-7-B Burners

(A) Fuel Type: Natural Gas

(1) Maximum Natural Gas Firing Rate (ft^3/hr): 3,530 (each burner) [P 117-0035]

(2) Maximum Gross Heat Input (MMBtu/hr): 3.6 (each burner) [P 117-0035]

ii. 4 - Fives North American Model No. 4419-6-B Burners

(A) Fuel Type: Natural Gas

(1) Maximum Natural Gas Firing Rate (ft^3/hr): 1,569 (each burner) [P 117-0035]

(2) Maximum Gross Heat Input (MMBtu/hr): 1.6 (each burner) [P117-0035]

iii. FOG System

(A) Fuel Type: Fats, oils and greases (FOG) derived from animal or vegetable fats

(1) Maximum FOG Usage Rate (gal/hr): 318 [P 117-0035]

iv. Total Auxiliary Fuel Firing Rates, Gross Heat Input and Annual Consumption [P 117-0035]

(A) Maximum Natural Gas Firing Rate (ft^3/hr): 41,576

(B) Maximum Gross Heat Input (MMBtu/hr): 42.4

(C) Maximum Fuel Consumption for Natural Gas over any Consecutive 12 Month Period: 100 million cubic feet

(D) Maximum Consumption for FOG over any Consecutive 12 Month Period: 3,200,000 gallons

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the daily, monthly and consecutive 12 month auxiliary (Natural Gas, FOG) fuel consumption. The consecutive 12 month fuel usage shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous eleven months. The Permittee shall make these calculations within 30 days of the end each month. [P 117-0035]

ii. The Permittee shall maintain records sufficient to determine compliance with the firing rate and gross heat input limitations or restrictions in Section III.A.2.a.iv of this Title V permit. [RCSA §22a-174-33(j)(i)(K)]

d. Reporting *Requirements*

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

4. Electrostatic Precipitator -Beltran Wet Tubular ESP (WESP)

a. Limitation or Restriction

i. The minimum power input to the WESP collection plates shall be equal to the lowest 4-hour average secondary electric power measured during the most recent performance test demonstrating compliance with the PM, Pb, and Cd emission limits. Power input must be calculated as the product of the secondary voltage and secondary amperage to the WESP collection plates. Both the secondary voltage and secondary amperage must be recorded during the performance test as required by 40 CFR §62.15985(a) and (f) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR §62.15995.

[P 117-0035; 40 CFR §62.15960(b)]

ii. The minimum effluent water flow rate at the outlet of the electrostatic precipitator shall be equal to the lowest 4-hour average effluent water flow rate at the outlet of the electrostatic precipitator measured during the most recent performance test demonstrating compliance with the PM, Pb, and Cd emission limits as required by 40 CFR §62.15985(a) and (g) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR §62.15995. [P 117-0035; 40 CFR §62.15960(b)]

b. Monitoring and Testing Requirements

The Permittee shall install, calibrate, maintain, and operate devices that continuously measures the voltage and current across each field of the wet electrostatic precipitator. These devices shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range.

[P 117-0035]

c. Record Keeping Requirements

i. The Permittee shall install, calibrate, maintain, and operate devices that continuously records the voltage and current across each field of the wet electrostatic precipitator. These devices shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range. [P 117-0035]

ii. The Permittee shall maintain records of the effluent water flowrate. [RCSA §22a-174-33(j)(1)(K)(ii)]

iii. The Permittee shall keep records of any SSI performance test results. [P 117-0035]

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. Thermal Oxidizer - GraceTec Enterprise III (RTO)

a. Limitation or Restriction

i. The minimum afterburner temperature shall be equal to the lowest 4-hour average afterburner temperature measured during the most recent performance test demonstrating compliance with CO and Dioxin/Furans emission limits as required by 40 CFR §62.15985(a) and (e) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR 40 CFR §62.15995. [P 117-0035; 40 CFR §62.15960(b)].

b. Monitoring and Testing Requirements

i. The Permittee shall install, calibrate, maintain, and operate a device that continuously measures the combustion chamber temperature of the RTO. This device shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range. [P 117-0035; 40 CFR §503.45(d)]

c. Record Keeping Requirements

i. The Permittee shall install, calibrate, maintain, and operate a device that continuously records the combustion chamber temperature of the RTO. This device shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range. [P 117-0035; 40 CFR §503.45(d)]

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. Adjustable Throat Venturi Scrubber System

Consisting of a Ducon Adjustable Throat Venturi Scrubber and a Peabody 3-Plate Impingement Tray Scrubber

a. Limitation or Restriction

i. The minimum pressure drop across each wet scrubber used to meet the PM, Pb, and Cd emission limits in 40 CFR Part 62 Subpart LLL, Table 3, shall be equal to the lowest 4-hour average pressure drop across each such wet scrubber measured during the most recent performance test demonstrating compliance with PM, Pb, and Cd emission limits as required by 40 CFR §62.15985(a) and (b) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR §62.15995. [P 117-0035; 40 CFR §62.15960(b)].

ii. The minimum scrubber liquid flow rate measured at the inlet to each wet scrubber shall be equal to the lowest 4-hour average liquid flow rate measured during the most recent performance test demonstrating compliance with PM, Pb, Cd, HCl, and SO_2 emission limits as required by 40 CFR §62.15985(a) and (c) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR §62.15995. [P 117-0035; 40 CFR §62.15960(b)].

iii. The minimum tray scrubber liquid pH used to meet the sulfur dioxide or hydrogen chloride emission limits in 40 CFR 62 Subpart LLL, Table 3, shall be equal to the lowest 1-hour average scrubber liquid pH measured during the most recent performance test demonstrating compliance with the SO_2 and HCl emission limits as required by 40 CFR §62.15985(a) and (d) and in accordance with the facility's Control Plan as required in 40 CFR §62.15900 and Site Specific Monitoring Plan as required in 40 CFR §62.15995.

[P 117-0035; 40 CFR §62.15960(b)].

b. Monitoring and Testing Requirements

i. The Permittee shall install, calibrate, maintain and operate a monitoring device that continuously measures 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 annual basis in accordance with the manufacturer's instructions. [P 117-0035; 40 CFR.153(b)(1)]

ii. The Permittee shall install, calibrate, maintain and operate a monitoring device that continuously measures the inlet liquid flow rate of venturi and tray scrubber. [117- 0035; RCSA §22a-174-4a]

iii. The Permittee shall install, calibrate, maintain and operate a monitoring device that continuously measures the pH of the tray scrubber. [117-0035; RCSA §22a-174-4a]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the measured pressure drop of the gas flow through the wet scrubbing system. [P 117-0035; 40 CFR §60.153(c)(1)]

ii. The Permittee shall make and keep records of the inlet liquid flow rate of the reagent used in the scrubbing system. [RCSA §22a-174-33(j)(1)(K)]

iii. The Permittee shall make and keep records of the liquid pH of the tray scrubber. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

i. The Permittee shall submit to the administrator and commissioner semi-annually a report in writing which contains the 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. [40 CFR §kz60.155(a)(1)]

ii. 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)]

7. Ash Handling System

a. Limitation or Restriction

i. The Permittee must 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 emissions 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 practices 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 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, erosions or other means; and

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

iii. Ash from the incinerator of sewage sludge shall be disposed of in accordance with the requirements of 40 CFR 257, 258, and 261 through 268, as appropriate. [P 117-0035]

b. Monitoring Requirements

i. Record keeping specified in Section III.A.7.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-174-33.

RCSA§22a-174-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.7.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

i. 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 3. [P 117-0035; 40 CFR §62.15995(d)]

ii. 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)]

8. Opacity

a. Limitation or Restriction

i. This equipment shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9. [P 117-0035]

ii. 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 of: [40 CFR §60.152(a)(2)]

(A) Particulate matter at a rate in excess of 0.65 g/kg dry sludge input (1.30 lb/ton dry sludge input).

(B) Any gases which exhibit 20 percent opacity or greater.

iii. The Permittee shall not cause visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) for more than 5% of any compliance test hourly observation period. The Permittee shall conduct a minimum of three 1-hour observation periods to determine compliance using visible emission test Method 22 at 40 CFR Part 60, Appendix A-7. [P 117-0035; 40 CFR §62.15955; 40 CFR Part 62 Subpart LLL, Table 3]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.8.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.8.a of this Title V permit. Such records shall include the results of any visible emissions test conducted. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

i. 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 3. [P 117-0035: 40 CFR §62.15995(d)]

ii. 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)]

iii. The Permittee shall submit Semi-Annual Deviation Report if visible emissions of combustion ash is observed at the ash bay door for more than 5-percent of any compliance test hourly observation period. [P 117-0035]

9. Allowable Emission Limits for PM/PM_{10}, VOC, SO_2, NOx,

a. Limitation or Restriction

i. The Permittee shall not cause or allow this equipment to exceed the following emission limits for PM/PM_{10} at any time. [P 117-0035; 40 CFR §60.152(a)(1)]

(A) 0.75 lb/hr

(B) 0.015 gr/dscf @ 12% CO_2

(C) 3.27 tpy

(D) 1.30 lb/DT sludge input over a 24 hour period [40 CFR §60.152(a)(1)]

ii. The Permittee shall not cause or allow this equipment to exceed the following emission limits for VOCs at any time. [P 117-0035]

(A) 0.89 lb/hr

(B) 3.91 tpy

iii. The Permittee shall not cause or allow this equipment to exceed the following emission limits for SO_2 at any time. [P 117-0035]

(A) 2.76 lb/hr

(B) 9.0 tpy

iv. The Permittee shall not cause or allow this equipment to exceed the following limits for NOx at any time. [P 117-0035]

(A) 10.71 lb/hr

(B) 46.93 tpy

v. The Permittee must meet the emission limits and standards specified in Table 3 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 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). [P 117-0035; 40 CFR §62.15955]

(A) PM/PM10: 80 milligrams per dry standard cubic meter

(B) NOx: 220 parts per million by dry volume

(C) SO2: 26 parts per million by dry volume

vi. Operation of the 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%. [40 CFR §503.45(e)]

vii. The emergency bypass damper shall remain closed during sewage sludge incineration, with the exception of a malfunction. At no time shall sewage sludge be fed to the incinerator while the emergency bypass is open. [P 117-0035]

viii. The emergency bypass damper shall remain closed during the activation of the flue gas recirculation fans. [P 117-0035]

b. Monitoring and Testing Requirements

i. The Permittee shall install, maintain, and operate a monitoring device to record emergency bypass damper openings. This device shall record the date, time and duration of each incinerator by-pass damper opening. [P 117-0035]

ii. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at www.ct.gov/deep/stacktesting. [P 117-0035]

iii. Stack testing is required to determine compliance with the particulate matter (PM) emission limit of 1.30 lb/DT sludge input. [40 CFR §60.152(a)(1)]

iv. The Permittee shall conduct annual stack testing, in accordance with the stack testing requirements herein, for VOC (as THC). [P 117-0035; CGS §22a-191a(b)]

v. The Permittee shall perform stack testing at a minimum of once every three years (no more than 37 months after previous performance test), or more frequently as required by 40 CFR 62.16000(a) and CT DEEP for the following pollutants: PM, SO2, NOx, and VOC (as THC). Stack testing shall be performed in accordance with CT DEEP emission test guidelines. [P 117-0035]

vi. All proposed test methods shall comply with the appropriate Federal test methods as acceptable to CTDEEP. The ITT must demonstrate compliance with applicable requirements of the CFR Parts 51, 60, 61 and 62. Any proposed test methods that deviate from those specified in these regulations must be approved by CTDEEP prior to stack testing. [P 117-0035]

vii. It is the Permittee's responsibility to conduct preparatory testing for tuning or debugging purposes prior to stack testing. [P 117-0035]

viii. The Commissioner may conduct inspections of the source to verify that appropriate instrumentation is available, and to determine the source process parameters, indicative of complainant operation, to be monitored during stack testing. Once the ITT package is approved, the Permittee shall be notified, in writing, by the Bureau of Air Management Source Emissions Monitoring Group. [P 117-0035]

c. Record Keeping Requirements

i. The Permittee shall make and maintain records of the cause of and circumstances involved in each emergency bypass damper opening; such records shall indicate whether sewage sludge was being incinerated at the time of the opening. [P 117-0035]

ii. The Permittee shall calculate and record the monthly and consecutive 12-month PM, PM-10, PM-2.5, SO2, NOx, VOC emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [117-0035]

iii. The Permittee shall keep records of the 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 three percent. [40 CFR §60.155(a)(2)]

iv. The Permittee shall make and keep records of the results of any incinerator performance tests. [P 117-0035]

v. The Permittee shall make and keep records of the operating combustion temperatures for the sewage sludge incinerator. [40 CFR §503.47(f)]

d. Reporting Requirements

i. The Permittee shall submit to the administrator and commissioner semi-annually a report in writing which contains a record of the average oxygen content of the incinerator exhaust gas for each period of 1-hour duration or more that oxygen content of the SSI exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3%. [P 117-0035; 40 CFR §60.155(a)(2)]

ii. 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)]

10. Allowable Emission Limits for CO

a. Limitation or Restriction

i. The Permittee shall not cause or allow this equipment to exceed the following limits for CO at any time. [P 117-0035]

(A) 8.11 lb/hr

(B) 100.0 ppmvd @7% O_2

(C) 35.53 tpy

ii. The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4a. CEM shall be required for CO. [P 117-0035, RCSA 22a-174-33(j)]

iii. The Permittee shall meet the following emission limits and standards specified in Table 3 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)]

(A) 3,800 parts per million by dry volume.

iv. The minimum combustion chamber operating temperature (or minimum afterburner temperature) shall be 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. [40 CFR §62.15985(e)]

b. Monitoring and Testing Requirements

i. The Permittee shall install, calibrate, maintain, and operate a continuous emissions monitor for CO. [P 117-0035; RCSA §22a-174-4a; 40 CFR §503.40 (c)(1)]

ii. For each continuous monitoring system, the Permittee's monitoring plan shall address the elements and requirements specified in 40 CFR §§62.15995(a)(1) through (8). The Permittee shall operate and maintain the continuous monitoring system according to the Site-Specific Monitoring Plan. [P 117-0035;40 CFR §62.15995(a)]

iii. Continuous monitors and recorders shall be installed, calibrated, tested, and operated in a manner acceptable to the Commissioner and in compliance with the US EPA performance and siting specifications (40 CFR, Part 60 Appendix B and Appendix F, as may be amended from time to time).

[P 117-0035]

iv. The Permittee shall install, calibrate, maintain, and operate a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor 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 a relative accuracy of ±5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24- hour operating period. [P 117-0035; 40 CFR §60.153(b)(2); §40 CFR 503.45(b)]

v. 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.

[40 CFR §62.15970; 40 CFR §62.16000(b)(1)(i)]

vi. The Permittee must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the CO emissions to the atmosphere in accordance with the following:

[40 CFR §62.16015(b)(3)]

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

(B) 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) through (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)]

vii. The Permittee shall perform stack testing at a minimum of once every three years (no more than 37 months after previous performance test), or more frequently as required by 40 CFR 62.16000(a) and CT DEEP for CO. Stack testing shall be performed in accordance with CT DEEP emission test guidelines. [P 117-0035]

viii. Demonstration of compliance with the emission limits for CO in Section III.A.10 of this Title V permit shall be met as measured by the CEM system (ppmvd @7% O2). [P 117-0035]

c. Record Keeping Requirements

i. The Permittee shall make and keep calibration and maintenance records and original instrument recordings for all continuous monitoring instruments and equipment. [P 117-0035]

ii. The Permittee shall make and keep records of the measured oxygen content of the incinerator exhaust gas. [P117-0035; 40 CR §60.153(c)(2)

iii. The CEM device shall record, at minimum, once every 15 minutes the oxygen content of the incinerator exhaust gas and the data shall be used to calculate a 12-hour block average. [40 CFR §60.153(c)(2)]

iv. 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 (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 117-0035]

v. The Permittee shall keep 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)]

vi. The Permittee shall keep the following records, as applicable: 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)]

vii. The Permittee shall make and keep the following records and shall retain the information for five years: [P 117-0035; 40 CFR §503.40(c)(3)

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

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

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: [P 117-0035]

(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 values of excess emissions,

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

(4) Corrective actions and future preventative measure;

(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. For each semi-annual report, the Permittee shall include a record of the 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 three percent. [P 117-0035; 40 CFR §60.155(a)(2)]

iii. 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 §§621.6030(d)(3)(i-viii). [P 117-0035; 40 CFR §62.16030(d)(3); 40 CFR Part 62 Subpart LLL, Table 6]

iv. 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)]

11. Allowable Emission Limits for Metals and HAPs

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] [P 117-0035]

ii. The Permittee shall not cause or allow HCL emissions to exceed 1.2 ppmvd measured at 7% oxygen, dry basis at standard conditions. [P 117-0035; 40 CFR Part 62 Subpart LLL, Table 3]

iii. The Permittee shall not cause or allow this equipment to exceed the following limits for **H_2SO_4** at any time.

(A) 2.8 lb/hr [P 117-0035]

(B) 26 ppmvd measured at 7% oxygen, dry basis at standard conditions. [40 CFR Part 62 Subpart LLL, Table 3]

iv. The Permittee shall not cause or allow this equipment to exceed the following limits for dioxins/furans: [P 117-0035; 40 CFR Part 62 Subpart LLL, Table 3]

(A) 5.0 nanograms per dry standard cubic meter measured at 7% oxygen, dry basis at standard conditions (total mass basis), or

(B) 0.32 nanograms per dry standard cubic meter measured at 7% oxygen, dry basis at standard conditions (toxic equivalency basis),

v. The Permittee shall not cause or allow Cadmium emissions from this equipment to exceed 0.095 milligrams per dry standard cubic meter measured at 7% oxygen, dry basis at standard conditions. [P 117-0035; 40 CFR Part 62 Subpart LLL, Table 3]

vi. The Permittee shall not cause or allow this equipment to exceed the following limits for Pb at any time.

(A) 0.0057 lb/hr [P117-0035]

(B) 0.3 mg/dscm @ 7% oxygen, dry basis at standard conditions.

(C) 0.03 tpy [40 CFR Part 62 Subpart LLL, Table 3]

vii. The minimum combustion chamber operating temperature (or minimum afterburner temperature) shall be 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. [40 CFR §62.15985(e)]

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. [P 117-0035]

ii. The Permittee shall conduct annual stack testing, in accordance with the stack testing requirements herein, for the following pollutants: Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Nickel, Selenium, Zinc. [P 117-0035; CGS §22a-191a(b)]

iii. The Permittee shall perform stack testing at a minimum of once every three years (no more than 37 months after previous performance test), or more frequently as required by 40 CFR 62.16000(a) and CT DEEP for the following pollutants: Pb, HCl, Cd, sulfuric acid and Dioxins/Furans. Stack testing shall be performed in accordance with CT DEEP emission test guidelines. [P 117-0035]

iv. 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)]

v. Demonstration of compliance with the emission limits in Section III.A.11.a of this Title V permit shall be met by calculating the emission rates from stack testing. [P 117-0035]

c. Record Keeping Requirements

i. The Permittee shall maintain records of the concentration of lead arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator [P 117-0035; 40 CFR §503.47(b)]

ii. The Permittee shall maintain records of the control efficiency for lead, arsenic, cadmium, chromium, and nickel for the sewage sludge incinerator [P 117-0035; 40 CFR §503.47(1)]

iii. The Permittee shall maintain records of the risk specific concentration for chromium calculated using Equation No. 6 in 40 CFR §503.43, if applicable [P 117-0035; 40 CFR §503.47(m)]

iv. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.11.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

i. 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)]

12. Beryllium (Be)

a. Limitation or Restriction

The Permittee shall not cause or allow beryllium emissions from this equipment to exceed 0.022 lb/24- hr for at any time. [P 117-0035]

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. [P 117-0035]

ii. The Permittee shall conduct an annual stack test for beryllium in accordance with CGS §22a.191a(b). [P 117-0035; CGS §22a.191a(b)]

iii. Demonstration of compliance with the emission limit for Beryllium shall be met by calculating the emission rates using the most recent approved stack testing results. [P 117-0035]

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.

[P 117-0035; 40 CFR §503.47(d)]

ii. The permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.12.a of this Title V permit. [RCSA §22a-174-33(i)(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)]

13. Mercury (Hg)

a. Limitation or Restriction

i. The Permittee shall not cause or allow this equipment to exceed the following limits for mercury at any time. [P 117-0035; 40 CFR Part 62 Subpart LLL, Table 3]

(A) 7.1 lb/hr;

(B) 0.28 mg/dscm measured at 7% oxygen, dry basis at standard conditions.

ii. The Permittee shall meet the following emission limits and standards specified in Table 3 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]

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. [P 117-0035]

ii. The Permittee shall conduct an annual stack test for mercury in accordance with CGS §22a.191a(b). [P 117-0035; CGS §22a.191a(b)]

iii. The Permittee shall perform stack testing at a minimum of once every three years (no more than 37 months after previous performance test), or more frequently as required by 40 CFR 62.16000(a) and CT DEEP for mercury. [P 117-0035]

iv. Demonstration of compliance with the emission limit for mercury shall be met by calculating the emission rates using the most recent approved stack testing results. [P 117-0035]

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.

[P 117-0035; 40 CFR §503.47(e)]

ii. The permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.13.a of this Title V permit. [RCSA §22a-174-33(i)(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)]

14. 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 or pursuant to the site-specific O&M schedule. [P 117-0035]

ii. The Permittee shall properly operate the control equipment at all times that this incinerator is in operation and emitting air pollutants. [P 117-0035]

iii. The facility will only be allowed to operate during shutdown of air pollution control equipment for a period of time not to exceed the burnout of the unit's charge at the time of the shutdown. No sewage sludge may be injected into the unit following the shutdown until after the air pollution control have been brough back online. [P117-0035

iv. Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or process equipment to operate in a normal manner. Failure that are caused in part by poor maintenance or operation are not malfunctions. The facility shall only be allowed to operate during the malfunction of air pollution control equipment for a period not to exceed the burnout of the unit's charge at the time of the malfunction. [P 117-0035]

v. 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. [P 117-0035; 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. [P 117-0035; 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. [P 117-0035; 40 CFR §62.16010(a)]

iv. 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. [40 CFR 62.15995(h)]

c. Record Keeping Requirements

i. The Permittee shall maintain records of the following information as required in 40 CFR §503.47 (f-k): [P 117-0035; 40 CFR §503.47(a)]

(A) The operating combustion temperatures for the SSI 40 CFR §503.47(f)

(B) Values for the air pollution control device operating parameters [40 CFR §503.47(g)]

(C) The Oxygen concentration and information used to measure moisture content in the exit gas from the SSI stack [40 CFR §503.47(h)]

(D) The hourly sludge feed rate determination results [40 CFR §503.47(i)]

(E) The stack height for the SSI [40 CFR 503.47(j)]

(F) The dispersion factor for the site where the SSI is located [49 CFR §503.47(k)]

ii. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.14.a of this Title V permit.

iii. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [P 117-0035]

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)]

15 Operator Training

a. Limitation or Restriction

i. The Permittee cannot operate the SSI unit unless a fully trained and qualified SSI 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 §62.15945. [P 117-0035; 40 CFR §62.15920(a)]

ii. 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. [P117-0035; 40 CFR §62.15945]

iii. 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). [40 CFR §62.16030(e)(1); 40 CFR Part 62 Subpart LLL, Table 6]

iv. Operator training and qualification shall be obtained through a state approved program or by completing the requirements included in 40 CFR §62.15920(c).

[P 117-0035; 40 CFR §62.15920(b); 40 CFR §62.15930(a)]

v. 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):

[i40 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)]

vi. 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.

vii. 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)]

viii. 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.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.15.c of this Title V permit shall be sufficient to meet monitoring requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee must 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)]

ii. The Permittee must 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: [40 CFR §§62.15950(b)(1) and (2)]

(A) The initial review of the information listed in 40 CFR §62.15920(c)(1) must 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.

iii. Documentation of the operator training procedures and records specified in 40 CFR §§62.16025(c)(1) through (c)(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)]

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

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

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

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

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

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

(G) Reporting and recording keeping procedures

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

(I) 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.

iv. 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)]

(A) 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.

(B) 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.

v. 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)]

vi. 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. 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. [P117-0035; 40 CFR 62.16030(e)(2); 40 CFR Part 62 Subpart LLL, Table 6]

ii. 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)(K)]

16. 40 CFR Part 62 Subpart LLL Operating Limits and Requirements

a. Limitation or Restriction

i. The Permittee must 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 the wet scrubber and electrostatic precipitator are listed in 40 CFR Part 62 Subpart LLL, Table 4. 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 must meet the operating limits and requirements specified in 40 CFR §§62.15960 (ad) 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)]

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)]

(B) Petition the Administrator for specific operating parameters, operating limits, and averaging periods to be established during the initial performance test and to be monitored continuously thereafter.

(1) The Permittee's petition must 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). For determining compliance with CO concentration limit using CO CEMS, the correction to 7-percent oxygen does not apply during periods of startup or shutdown. Use the measured CO concentration without correcting for oxygen concentration in averaging with other CO concentrations (corrected to 7-percent O_2) to determine the 24-hour average value. [40 CFR §62.15970]

iv. The Permittee must 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 3 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. [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) through (e), according to the performance testing, monitoring, and calibration requirements in 40 CFR §62.16015(a) and (b). [40 CFR §62.16000]

iii. 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). [40 CFR §62.16005]

iv. 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), the air pollution control device inspections requirements specified in 40 CFR §62.16015(c) and the bypass stack provisions specified in 40 CFR §62.16015(d). [40 CFR §62.16015]

v. The Permittee shall perform inspections of the control devices as recommended by the manufacturer. At a minimum, 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. [40 CFR §62.16010(a)]

vi. *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 3 is 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 3 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 must 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 3, 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)]

vii. *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)]

(2) The Permittee may substitute the use of a continuous automated sampling system for mercury or dioxins/furans in lieu of conducting the annual mercury or dioxin/furan performance tests as specified in 40 CFR Part 62 Subpart LLL, Table 3. [40 CFR §62.16000(b)(1)(ii)]

(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 must 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 must 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)]

viii. 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 must remain strictly subject to the requirements of 40 CFR Part 62 Subpart LLL. [40 CFR §62.16000(e)]

ix. 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)]

x. The Permittee must 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). [40 CFR §62.16005]

(A) The Permittee must 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 must 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 must 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 must 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 must 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 must 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)]

xi. The Permittee must 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).

[40 CFR §62.16015]

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

(C) Method 1 at 40 CFR Part 60, Appendix A, must 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, must be used simultaneously with each method. [40 CFR §62.16015(a)(5)]

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

(F) Performance tests must 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 must 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)]

xii. The Permittee must 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 must complete repairs and resume operation of the monitoring system as expeditiously as possible. [40 CFR §62.16015(b)(3)(iv)]

xiii. The Permittee must 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 must 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 must 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 must 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 must 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

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

ii. The Permittee must 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 must 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 must 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 must 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.

iii. For continuous parameter monitoring systems – The Permittee shall maintain records of 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)]

iv. The Permittee must 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: [P 117-0035; 40 CFR §62.16025]

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

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

(C) Documentation of the operator training procedures and records specified in 40 CFR §§62.16025(c)(1) through (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). [40 CFR §62.16025(c)]

(D) 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)]

(E) 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)]

(F) 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)]

(G) 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)]

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

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

(J) Records of inspections, calibration and validation checks of any monitoring devices as required under 40 CFR §62.16015 and 40 CFR §62.16020 [40 CFR §62.16025(j)]

(K) 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)]

(L) 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)]

(M)Records indicating use of bypass stack, including date, times and durations as required under §62.16020(d). [40 CFR §62.16025(m)]

(N) 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 must 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. [40 CFR §62.15995(h)]

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

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

vi. The Permittee must 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. 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 must submit subsequent annual compliance reports no more than 12 months following the previous annual compliance report.

[P 117-0035; 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 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. The Permittee shall submit Semi-Annual Deviation Report if any of the following occur:

[P 117-0035; 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 level, 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) 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) 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 must 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).

[P 117-0035; 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). [P 117-0035; 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)]

(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)(i thru 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. If a force majeure is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure:

[P 117-0035; 40 CFR §62.16000(e); 40 CFR §§62.16030(f); 40 CFR Part 62 Subpart LLL, Table 6]

(A) The Permittee must 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 must 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)]

x. The Permittee shall submit other notifications as provided by 40 CFR §60.7 and as follows:

[40 CFR §62.16030(g); 40 CFR Part 62 Subpart LLL, Table 6]

(A) The Permittee must 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 must 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 must 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)]

xi. Submit annual and deviation reports electronically or in paper format, postmarked on or before the submittal due dates.

[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 must 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 must 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 must 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 must 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 must submit the results of the performance evaluation via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) Performance evaluation data must 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 must 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 must 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)]

xii. 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)]

xiii. The Permittee shall submit reports in the format as specified in 40 CFR §62.16030(h). [P 117-0035; 40 CFR §62.16030(h)]

B. EMISSIONS UNIT 8 (EU-8) - Solvent Cold Cleaning Unit

RCSA §22a-174-20(l)3)

a. Limitations and Operating Practices

The Permittee shall:

i. Equip the cleaning device with a cover that is easily operated with one hand. [RCSA §22a-174-20(l)(3)(A)]

ii. Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system. [RCSA §22a-174-20(l)(3)(B)]

iii. Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(l)(3)(C)]

iv. Close the cover if parts are not being handled in the cleaner for two (2) minutes or more, or if the device is not in use. [RCSA §22a-174-20(l)(3)(D)]

v. Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA §22a-174-20(l)(3)(E)]

vi. If a degreasing solvent is used: [RCSA §22a-174-20(l)(3)(F)]

(A) Supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray),

(B) Maintain a solvent spray that does not exceed ten (10) pounds per square inch as measured at the pump outlet, and

(C) Perform spraying within the confines of the cold cleaning unit.

vii. Minimize the drafts across the top of the cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute. [RCSA 22a-174-20(l)(3)(G)]

viii. Not operate the unit upon the occurrence of any visible leak until such leak is repaired. [RCSA §22a-174-20(l)(3)(H)]

ix. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling. [RCSA §22a-174-20(l)(3)(H)]

x. Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements. [RCSA §22a-174-20(l)(3)(I)]

xi. Use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. [RCSA §22a-174-20(l)(3)(K)]

xii. Not clean sponges, fabric, leather, paper and other absorbent material in the cold cleaning machine. [RCSA §22a-174-20(l)(3)(L)]

b. Monitoring and Testing Requirements

i. Measure the draft across the top of the cold cleaning unit between one and two meters upwind, at the same elevation as the tank lip. [RCSA 22a-174-20(l)(3)(G)]

ii. Record keeping specified in Section III.B.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.

[RCSA §22a-174-33(j)(1)(K(ii))]

c. Record Keeping Requirements

i. The Permittee shall aintain records of the following information for a minimum of five (5) years after such record is made: [RCSA 22a-174-20(l)(3)(J)]

(A) The type of solvent used, including a description of the solvent and the solvent name,

(B) The vapor pressure of the solvent in mmHg measured at 20 degrees Celsius (68 degrees Fahrenheit),

(C) The percent VOC content by weight, and

(D) The amount of solvent added to the unit on a monthly basis.

ii. The Permittee shall maintain records sufficient to determine compliance with the limitations and Operating Practices in Section III.B.1.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)]

C. GROUPED EMISSIONS UNIT 1 (GEU-1) Two 2MW Caterpillar Model 3516 Diesel Emergency Generators (EU-1 and EU-9)

RCSA 22a-174-3b(e),

RCSA 22a-174-22e,

RCSA 22a-174-19b and RCSA 22a-174-18

1. Hours of Operation

a. Limitation or Restriction

Maximum operating hours for each engine in GEU-1 shall not be greater than 300 hours during any 12 month rolling aggregate and each engine shall be operated only during periods of testing and scheduled maintenance or during an emergency as defined in RCSA §22a-174-22e. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(e)(2)]

b. Monitoring and Testing Requirements

The Permittee shall monitor hours of operation for each engine in GEU-1 on a monthly basis. [RCSA §22a-714-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall maintain records of hours of operation for each engine in GEU-1 on a monthly basis and for each 12 month rolling aggregate. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(e)(4)]

ii. The Permittee shall maintain records sufficient to determine compliance with the maximum hours of operation for five years from the date such record is created. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(e)(3)]

d. Reporting Requirements

i. The Permittee shall provide any required records, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [STATE ONLY REQUIREMENT]-[RCSA §22a-174-3b(i)(1)]

ii. Any record requested pursuant to Section III.B.1.d.i above shall be submitted with a certification in accordance with section 22a-174-2a(a) of the Regulations of Connecticut State Agencies. [STATE ONLY REQUIREMENT]-[RCSA §22a-174-3b(i)(2)]

iii. 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. [STATE ONLY REQUIREMENT]-[RCSA §22a-174-33(j)(1)(X)]

2. Fuel Sulfur Content

a. Limitation or Restriction

Any nongaseous fuel used in GEU-1 shall not exceed the fuel sulfur content requirements of subdivision (2) of subsection (d) of section 22a-174-19b of the Regulations of Connecticut State. [RCSA §22a-174-3b(e)(2)(B)]

b. Monitoring [and Testing] Requirements

The Permittee shall monitor the sulfur content for any nongaseous fuel burned in each engine in GEU-1. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall keep any of the following records to demonstrate compliance with Section III.C.2.a of this Title V permit.

i. The quantity of fuel purchased for combustion. [RCSA §22a-174-19b(g)(3)]

ii. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used: [RCSA§22a-174-19b(g)]

(A) A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel as a condition of each shipment. The certification or contract should include the items specified in RCSA §22a-174-19b(g)(3).

d. Reporting Requirements

i. The Permittee shall provide any required records, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [STATE ONLY REQUIREMENT]-[RCSA §22a-174-3b(i)(1)]

ii. Any record requested pursuant to Section III.C.2.d.i above shall be submitted with a certification in accordance with section 22a-174-2a(a) of the Regulations of Connecticut State Agencies. [STATE ONLY REQUIREMENT]-[RCSA §22a-174-3b(i)(2)]

iii. 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. Nitrogen Oxides

a. Limitations and Restrictions

i. The Permittee shall not operate the emergency engines in GEU-1 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" of 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 PM on the preceding day. Subsequent changes to the ozone forecast after 3 PM 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 engines in GEU-1 at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine in GEU-1 from RCSA §22a-174-22e(d)(14) 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 and Testing Requirements

Record keeping specified in Section III.C.3.c of this Title V permit shall be sufficient to meet monitoring and testing requirements pursuant to RCSA §22a174-33. [RCSA §22a174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall keep the following records for all units in GEU-1:

(A) Records of total monthly operating hours of such engines; [RCSA §22a-174-22e(j)(2)(A)]

(B) The dates and operating hours of non-emergency use; and,[RCSA §22a-174-22e(j)(2)(A)]

(C) The reason for non-emergency operation. [RCSA §22a-174-22e(j)(2)(A)]

ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22e 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 source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22e(j)(1)]

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-174-233(j)(1)(X)]

4. Opacity

a. Limitations 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.C.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

The Permittee shall maintain records of any opacity observations initiated by the Permittee or at the request of the Commissioner. Such records shall include the dates, times, and places of all visible observations, persons performing the observation, test method used, the operating conditions at the time of the observation, and the results of such observations. Records shall be kept for a minimum of five years after such records were created. [RCSA §22a-174-33(o)(2)]

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 §22-174-33(j)(1)(X)]

D. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4a(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 and §22a-174-22f.

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

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

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. 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.

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 (Mail code: 04-02), Boston, Massachusetts 02109-3912, Attn: Air Compliance Clerk.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. The type of monitoring or records used to obtain such data, including record keeping;

2. The date, place, and time of sampling or measurement;

3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;

4. The date(s) on which analyses of such samples or measurements were performed;

5. The name and address of the entity that performed the analyses;

6. The analytical techniques or methods used for such analyses;

7. The results of such analyses;

8. The operating conditions at the subject source at the time of such sampling or measurement; and

9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

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

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

1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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

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

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

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Exceed emissions allowable under the subject permit;

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.

DRAFT

Print for Compliance Certification or Enforcement

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

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

Print Enforcement Checklist

Print Compliance Certification