



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**

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

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

<b>Title V Permit Number</b>	.117-0265-TV
<b>Client/Sequence/Town/Premises Numbers</b>	139/4/117/551
<b>Revision Date Issued</b>	June 22, 2016
<b>Expiration Date</b>	April 30, 2020

**Corporation:**

*PSEG Power Connecticut LLC*

**Premises Location:**

*New Haven Harbor Station*

*600 Connecticut Avenue, New Haven, CT 06512*

**Name of Responsible Official and Title:**

*Karl A. Wintermeyer, Plant Manager-New England*

All the following attached pages, 2 through 71, are hereby incorporated by reference into this Title V permit.

/s/Anne Gobin for  
Robert J. Klee  
Commissioner

June 22, 2016  
Date

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## **Title V Operating Permit**

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

## LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
acf	Actual Cubic Feet
AOS	Alternative Operating Scenario
Bhp	Brake Horse Power
BTU	British Thermal Units
CAIR	Clean Air Interstate Rule
CDX	Central Data Exchange
CEDRI	Compliance and Emission Data Reporting Interface
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CI	Compression Ignition
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
CT DEEP	Connecticut Department of Energy and Environmental Protection
EPA	Environmental Protection Agency
ESP	Electrostatic Precipitator
EGU	Electric Utility Steam Generating Unit
EU	Emissions Unit
°F	Degree Fahrenheit
gal	Gallons
GEU	Grouped Emissions Unit
g	grams
GHG	Greenhouse Gas
gr	Grains
hr	Hour
ICE	Internal Combustion Engine
ISO-NE	Independent System Operator New England
J	Joules
kW	Kilowatt
L	Liters
lb	Pound
MACT	Maximum Achievable Control Technology
mcf	Thousand Cubic Feet
Mgal	Thousand Gallons

## LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
MMBtu	Million British Thermal Units
MMft <sup>3</sup>	Million Cubic Feet
MMscf	Million Standard Cubic Feet
MW	Megawatt
NESHAP	National Emission Standards for Hazardous Air Pollutants
ng	Nanograms
NHHS	New Haven Harbor Station
NMHC	Non Methane Hydrocarbon
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O <sub>2</sub>	Oxygen
Pb	Lead
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
PM <sub>10</sub>	Particulate Matter less than 10 microns
ppm	Parts per Million
ppmvd	Parts per Million Volume Dry
QA	Quality Assurance
RCSA	Regulations of Connecticut State Agencies
RICE	Reciprocating Internal Combustion Engine
scf	Standard Cubic Feet
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SNCR	Selective Non Catalytic Reduction
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>x</sub>	Sulfur Oxides
SOS	Standard Operating Scenario
TPY	Tons per Year
ULSD	Ultra Low Sulfur Distillate
VOC	Volatile Organic Compound
yr	Year

## Section I: Premises Information/Description

### A. PREMISES INFORMATION

Nature of Business: Electricity Generation for Wholesale Sale

Primary SIC: 4911

Facility Mailing Address: PSEG Power Connecticut, LLC  
600 Connecticut Avenue  
New Haven, CT 06512

Telephone Number: Ms. Sally Kruse, 203-974-5055

### B. PREMISES DESCRIPTION

The New Haven Harbor Station (NHHS) is an exempt wholesale electric generating facility, owned and operated by PSEG Power Connecticut LLC (PSEG) with its principal place of business in Newark, New Jersey. The NHHS encompasses approximately 43 acres of land on the eastern edge of New Haven Harbor. The property includes a marine bulk loading and unloading facility, two above ground petroleum storage tanks and the power generating station.

Electricity is generated at the facility through the Main Steam Generator, a tangentially-fired boiler currently rated at approximately 466 MW (megawatts) of electricity (net output). The boiler has the dual capacity to burn No. 6 and No. 2 fuel oil and/or natural gas.

Electricity is also generated by three General Electric LM6000PC combustion turbine generators to meet peak power demands and to alleviate network system ramp constraints in the area. Each combustion turbine generator utilizes natural gas and ultra-low sulfur distillate (ULSD) fuel. Each turbine is equipped with an oxidation catalyst for control of carbon monoxide (CO), formaldehyde and volatile organic compounds (VOC), and selective catalytic reduction (SCR) for control of nitrogen oxides (NO<sub>x</sub>).

The following Emission Units (EU) are also located at the facility: Auxiliary Steam Generator, Emergency Generator, Fire Pump Engine and Black Start Generator.

PSEG is a Title V source because actual Greenhouse Gas (GHG) emissions exceed the major source threshold. Also PSEG is a Title V source as defined in RCSA §§22a-174-33(a)(10)(A) and (B) (subject to 40 CFR Parts 60, 61 and 63 and not otherwise exempted or deferred from the Title V program) and RCSA §22a-174-33(a)(10)(C) (subject to 40 CFR Parts 72-78). PSEG is located in a serious ozone non-attainment area as defined in RCSA §22a-174-1(103).

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

PSEG is subject to the following:

40 CFR Part 60 Subpart IIII	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
40 CFR Part 60 Subpart KKKK	Standards of Performance for Stationary Combustion Turbines
40 CFR Part 63 Subpart DDDDD	National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters-Major Sources
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Reciprocating Internal Combustion Engines (RICE)
40 CFR Part 63 Subpart UUUUU	National Emission Standards for Utility NESHAP
40 CFR Parts 72-78	Acid Rain Requirements
40 CFR Part 96 Subpart AAAA	Clean Air Interstate Rule (CAIR)

## Section II: Emissions Units Information

### A. EMISSIONS UNITS DESCRIPTION

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

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>					
<b>GEU</b>	<b>EU</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Monitoring Unit Description</b>	<b>Permit or Regulation Number</b>
	EU-1	Main Steam Generator Make: Combustion Engineering Model: Custom Serial No. NHHS No.1 Installation Date: 8/1975 Maximum Rated Capacity: 4,286 MMBtu/hr	Electrostatic Precipitator, Overfire Air, Flue Gas Recirculation, Waterwall Lances, and Low NO <sub>x</sub> Burners	Continuous monitoring of stack gas flow, SO <sub>2</sub> , NO <sub>x</sub> , CO <sub>2</sub> and opacity	Permit No. 117-0031 RCSA §22a-174-19a RCSA §22a-174-22 RCSA §22a-174-22c (CAIR) 40 CFR Part 63 Subpart UUUUU Title IV Acid Rain
	EU-2	Auxiliary Steam Generator Make: Babcock and Wilcox Model: Custom Installation Date: 6/1/75 Maximum Rated Capacity: 143.4 MMBtu/hr	None	Continuous monitoring of fuel flow	Permit No. 117-0021 RCSA §22a-174-22 40 CFR Part 63 Subpart DDDDD
	EU-3	Emergency Generator Make: Solar "Spartan" Model: GS350 Installation Date: 6/1/75 Maximum Rated Capacity: 5.48 MMBtu/hr, diesel (distillate) fuel	None	None	RCSA §22a-174-3b



## Section II: Emissions Units Information

<b>TABLE IIA: EMISSIONS UNITS DESCRIPTION</b>					
<b>GEU</b>	<b>EU</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Monitoring Unit Description</b>	<b>Permit or Regulation Number</b>
	EU-4	Fire Pump Engine Make: Avco Lycoming Installation Date: 6/1/75 Maximum Rated Capacity: 1.8 MMBtu/hr	None	None	RCSA §22a-174-3b  40 CFR Part 63 Subpart ZZZZ
GEU-1	EU-30	Combustion Turbine Make: General Electric Model: LM6000PC Serial No. NHHS No. 2 Installation Date: 6/1/12 Maximum Rated Capacity: 484.3 MMBtu/hr (natural gas) and 459.2 MMBtu/hr (ULSD)	Water Injection, SCR, and Oxidation Catalyst	CEMS for NO <sub>x</sub> , CO, O <sub>2</sub>	Permit No. 117-0373  RCSA §22a-174-22c (CAIR)  40 CFR Part 60 Subpart KKKK  Title IV Acid Rain
	EU-31	Combustion Turbine Make: General Electric Model: LM6000PC Serial No. NHHS No. 3 Installation Date: 6/1/12 Maximum Rated Capacity: 484.3 MMBtu/hr (natural gas) and 459.2 MMBtu/hr (ULSD)	Water Injection, SCR, and Oxidation Catalyst	CEMS for NO <sub>x</sub> , CO, O <sub>2</sub>	Permit No. 117-0374  RCSA §22a-174-22c (CAIR)  40 CFR Part 60 Subpart KKKK  Title IV Acid Rain

**Section II: Emissions Units Information**

<b>TABLE IIA: EMISSIONS UNITS DESCRIPTION</b>					
<b>GEU</b>	<b>EU</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Monitoring Unit Description</b>	<b>Permit or Regulation Number</b>
GEU-1 Cont.	EU-32	Combustion Turbine Make: General Electric Model: LM6000PC Serial No. NHHS No. 4 Installation Date: 6/1/12 Maximum Rated Capacity: 484.3 MMBtu/hr (natural gas) and 459.2 MMBtu/hr (ULSD)	Water Injection, SCR, and Oxidation Catalyst	CEMS for NO <sub>x</sub> , CO, O <sub>2</sub>	Permit No. 117-0375 RCSA §22a-174-22c (CAIR) 40 CFR Part 60 Subpart KKKK Title IV Acid Rain
	EU-33	Black Start Generator Make: Cummins Model: QSK50-G4-NR2 Installation Date: 5/2012 Maximum Rated Capacity: 17.4 MMBtu/hr	None	None	RCSA §22a-174-3b 40 CFR Part 60 Subpart III

## Section II: Emissions Units Information

### 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. There are no AOS for the premises.

<b>TABLE II.B: OPERATING SCENARIO IDENTIFICATION</b>	
<b>Emissions Units Associated with the Scenario</b>	<b>Description of Scenario</b>
EU-1	Operates on residual fuel oil with less than 1.0% sulfur on a dry weight basis, No. 2 fuel oil with less than 0.3% sulfur on a dry weight basis, and/or natural gas.
EU-1	Operates on residual fuel oil with up to 1.3% sulfur on a dry weight basis when co-firing with natural gas at a rate greater than 25% of the total heat input.
EU-2	Operates on No. 2 fuel oil with less than 0.3% sulfur on a dry weight basis and uses propane igniters.
EU-3, EU-4 and EU-33	Operates on ULSD with less than 0.0015% sulfur on a dry weight basis.
GEU-1	Operates on natural gas and/or ULSD with less than 0.0015% sulfur on a dry weight basis.

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

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

#### **A. EU-1 (Main Steam Generator)**

##### **1. No. 2 Fuel Oil**

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

- i. The firing rate of No. 2 fuel oil shall not exceed 29,700 gal/hr. [Permit No. 117-0031]
- ii. The combined annual fuel usage for both No. 2 and residual fuel oil shall not exceed 258,390,000 gal over any consecutive 12 months. [Permit No. 117-0031]
- iii. The sulfur content of the No. 2 fuel oil shall not exceed 0.3 % by weight (dry basis). [Permit No. 117-0031]

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

- i. The Permittee shall monitor hourly, monthly and annual fuel consumption of No. 2 fuel oil. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall use a non-resettable totalizing fuel metering system to continuously monitor and record each fuel fed to this emission unit. [Permit No. 117-0031]
- iii. The maximum fuel sulfur content shall be provided for each delivery and tracked for the operating tank. [40 CFR §64.3(a)(3)]

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

- i. The Permittee shall make and keep records of hourly, monthly and annual fuel consumption for each fuel. Annual fuel consumption shall be based on consecutive 12 month periods and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0031]
- ii. The Permittee shall make and keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [Permit No. 117-0031]

###### *d. Reporting Requirements*

The Permittee shall submit a report that includes the times and duration of all instances when combusted fuel is outside an indicated range. The report shall also include corrective actions taken to address an exceedance or a statement that all readings were within the indicated range.  
[RCSA §22a-174-33(o)(1) and 40 CFR §64.9(a)]

## Section III: Applicable Requirements and Compliance Demonstration

### 2. Residual Fuel Oil

#### a. Limitation or Restriction

- i. The firing rate of residual fuel oil shall not exceed 29,700 gal/hr. [Permit No. 117-0031]
- ii. The combined annual fuel usage for both No. 2 and residual fuel oil shall not exceed 258,390,000 gal over any consecutive 12 months. [Permit No. 117-0031]
- iii. The sulfur content of the residual fuel oil shall not exceed 1.3 % by weight (dry basis) when co-fired with natural gas and the natural gas firing rate is 25% or more of the total heat input. [Permit No. 117-0031]
- iv. The sulfur content of residual fuel oil shall not exceed 1.0% by weight (dry basis) when solely firing oil. [Permit No. 117-0031 and 40 CFR Part 64]

#### b. Monitoring Requirements

- i. The Permittee shall monitor hourly, monthly and annual fuel consumption of residual fuel oil. [Permit No. 117-0031]
- ii. The Permittee shall use a non-resettable totalizing fuel metering system to continuously monitor and record each fuel fed to this emission unit. [Permit No. 117-0031]
- iii. The maximum fuel sulfur content shall be provided for each delivery and tracked for the operating tank. [40 CFR §64.3(a)(3)]

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of hourly, monthly and annual fuel consumption for each fuel. Annual fuel consumption shall be based on consecutive 12 month periods and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0031]
- ii. The Permittee shall make and keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [Permit No. 117-0031]

#### d. Reporting Requirements

The Permittee shall submit a report that includes the times and duration of all instances when combusted fuel is outside an indicated range. The report shall also include corrective actions taken to address an exceedance or a statement that all readings were within the indicated range. [RCSA §22a-174-33(o)(1) and 40 CFR §64.9(a)]

### Section III: Applicable Requirements and Compliance Demonstration

#### 3. Natural Gas

*a. Limitation or Restriction*

The annual fuel usage of natural gas shall not exceed 15,768 million cubic feet (MMft<sup>3</sup>) over any consecutive 12 months. [Permit No. 117-0031]

*b. Monitoring Requirements*

- i. The Permittee shall monitor hourly, monthly and annual fuel consumption for each fuel. [Permit No. 117-0031]
- ii. The Permittee shall use a non-resettable totalizing fuel metering system to continuously monitor and record each fuel fed to this emission unit. [Permit No. 117-0031]

*c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of monthly and annual fuel consumption for each fuel. Annual fuel consumption shall be based on consecutive 12 month periods and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0031]
- ii. The Permittee shall make and keep records of the periods during which the unit is co-fired with natural gas, the firing rate of natural gas, and the sulfur content of the fuel oil being fired. [Permit No. 117-0031]

#### 4. PM<sub>10</sub>

*a. Limitation or Restriction*

- i. The Permittee shall not exceed the following emission limits when operating on No. 2, residual fuel oil, or co-firing either No. 2 or residual fuel oil with natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
PM <sub>10</sub>	261.9	0.061	1,139.27

- ii. The Permittee shall not exceed the following emission limits when operating solely on natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
PM <sub>10</sub>	12.86	0.003	24.362

- iii. The Permittee shall not exceed the following emission limit from burning No. 2, residual fuel oil, and natural gas combined: [Permit No. 117-0031]

<u>Pollutant</u>	<u>TPY</u>
PM <sub>10</sub>	1,139.27

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

#### *b. Monitoring Requirements*

- i. The Permittee shall achieve compliance with the particulate emission limitation through the use of an electrostatic precipitator (ESP). The ESP shall have a manufacturer's guarantee of 95% particulate removal efficiency or an outlet level of 0.005 grains/actual cubic foot (gr/acf), whichever is greater. [Permit No. 117-0031]
- ii. While firing fuel or emitting air pollutants, the Permittee shall continuously monitor primary and secondary voltages, currents and kilowatts of the ESP. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits. [Permit No. 117-0031]
- iii. The Permittee shall continuously measure the power levels of the ESP and an alarm triggered when a transformer/rectifier set fails. [40 CFR §64.3(a)(3)]
- iv. Station electricians shall perform weekly rounds of the precipitator, reviewing transformer/rectifier set functionality and rapper and hopper vibrations operation, with periodic review by operations staff. [40 CFR §64.3(a)(3)]
- v. Internal inspections of plates, wires, hoppers and precipitator penthouse shall be performed during planned unit maintenance outages (typically once a year during high operating capacity years (greater than 30%), but the inspection cycle maybe extended when operating capacity stays below 10%). [40 CFR §64.3(a)(3)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to show compliance with the pound per million British Thermal Units (lb/MMBtu) and pound per hour (lb/hr) emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM<sub>10</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit No. 117-0031]
- iii. While firing fuel or emitting air pollutants, the Permittee shall continuously record primary and secondary voltages, currents and kilowatts of the ESP. [Permit No. 117-0031]
- iv. The Permittee shall make and keep records of transformer/rectifier power levels per total gas path; as well as operations and maintenance checklists. [40 CFR §64.9(b)]

#### *d. Reporting Requirements*

The Permittee shall submit a report that includes the times and duration of all instances when ESP power to a total gas path is zero. The report shall also include corrective actions taken to address an exceedance or a statement that all readings were within the performance range. [RCSA §22a-174-33(o)(1) and 40 CFR §64.9(a)]

### Section III: Applicable Requirements and Compliance Demonstration

#### 5. SO<sub>x</sub>

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on No. 2, residual fuel oil, or co-firing either No. 2 or residual fuel oil with natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
SO <sub>x</sub>	4,714.6	1.100	20,508.21

- ii. The Permittee shall not exceed the following emission limits when operating solely on natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
SO <sub>x</sub>	2.57	0.0006	4.872

- iii. The Permittee shall not exceed the following emission limit from burning No. 2, residual fuel oil, and natural gas combined: [Permit No. 117-0031]

<u>Pollutant</u>	<u>TPY</u>
SO <sub>x</sub>	20,508.51

##### b. Monitoring Requirements

The Permittee shall calibrate, maintain, operate, and certify a CEMS for SO<sub>x</sub>. The Permittee shall meet the applicable performance specifications and quality assurance requirements of 40 CFR Part 75. [RCSA §22a-174-4(c)(4)(A)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to show compliance with the lb/MMBtu emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep all charts, electronically stored data, and printed records produced by the SO<sub>x</sub> CEMS. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall calculate and record the monthly and consecutive 12 month SO<sub>x</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit No. 117-0031]

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

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on residual fuel oil or co-firing residual fuel oil with natural gas: [Permit No. 117-0031]



### Section III: Applicable Requirements and Compliance Demonstration

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
NO <sub>x</sub>	1,071.5	0.250	4,661.03

- ii. The Permittee shall not exceed the following emission limits when operating on No. 2 fuel oil or co-firing No. 2 with natural gas: [Permit No. 117-0031 and RCSA §22a-174-22(e)(1), Table 22-1]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
NO <sub>x</sub>	1,071.5	0.20	4,661.03

- iii. The Permittee shall not exceed the following emission limits when operating solely on natural gas: [Permit No. 117-0031 and RCSA §22a-174-22(e)(1), Table 22-1]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
NO <sub>x</sub>	857.2	0.200	1,624.1

- iv. The Permittee shall not exceed the following emission limit from burning No. 2, residual fuel oil, and natural gas combined: [Permit No. 117-0031]

<u>Pollutant</u>	<u>TPY</u>
NO <sub>x</sub>	4,672.15

- v. When simultaneously firing multiple fuels, the NO<sub>x</sub> emissions limitation shall be determined by: [RCSA §22a-174-22(f)(2)(A)]

- (A) Multiplying the heat input (lb/MMBtu) of each fuel combusted by the applicable emission limitation for such fuel;
- (B) Summing those products; and
- (C) Dividing the sum by the total heat input.

- vi. During the period from October 1 to April 30, inclusive, each year thereafter: [RCSA § 22a-174-22(d)(2)]

- (A) The Permittee shall not exceed a NO<sub>x</sub> emission limitation of 0.15 lb/MMBtu
- (B) Use NO<sub>x</sub> DERCs, or NO<sub>x</sub> allowances, or both, pursuant to RCSA §22a-174-22(j), to achieve all or a portion of the NO<sub>x</sub> emission reductions required by the emission limitation in Section III.A.6.a.vi.(A) of this Title V permit.

#### *b. Monitoring Requirements*

- i. The Permittee shall install, calibrate, maintain, operate and certify a CEMS for NO<sub>x</sub>. Any such testing shall be conducted in accordance with a testing protocol approved by the commissioner. The Permittee shall meet the applicable performance specifications and quality assurance requirements of 40 CFR Part 75. [RCSA §§22a-174-4(c)(4)(A) and -22(k)(3)]
- ii. The averaging times for the emission limitations with the use of the CEMS shall be 24 hours, measured from midnight at the beginning of any day to midnight of the end of that day, including all periods of operation, including startup, shutdown, and malfunction. [RCSA §22a-174-22(k)(4)(B)]

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- iii. The Permittee shall use data recorded by the CEMS and any other records and reports to determine compliance with NO<sub>x</sub> emissions. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/MMBtu and lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep records of all tune-ups, repairs, replacement of parts and other maintenance done on the unit. [RCSA §22a-174-22(l)(1)(D)]
- iii. The Permittee shall make and keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22. [RCSA §22a-174-22(l)(1)(E)]
- iv. The Permittee shall make and keep all charts, electronically stored data, and printed records produced by the NO<sub>x</sub> CEMS. [RCSA §22a-174-22(l)(1)(F)]
- v. The Permittee shall calculate and record the monthly and consecutive 12 month NO<sub>x</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit No. 117-0031]
- vi. The Permittee shall make and keep records of the dates, times, and places of all emission testing required by RCSA §22a-174-22, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)]
- vii. The Permittee shall make and keep records of all performance evaluations, calibration checks and adjustments on CEMS; a record of maintenance procedures; and all data necessary to complete the quarterly reports required by the commissioner. [RCSA §22a-174-22(l)(1)(I)]
- viii. The Permittee shall make and keep records sufficient to demonstrate compliance with all applicable requirements of RCSA §22a-174-22c and the standard requirements of the CAIR permit application. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

- i. The Permittee shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of the NO<sub>x</sub> CEMS. [RCSA §22a-174-22(k)(3)]
- ii. Within sixty 60 days of the completion of certification tests conducted on the CEMS, the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(l)(3)]
- iii. The Permittee shall submit to the commissioner written quarterly reports of excess emissions and CEMS malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30, and October 30 of each calendar year and shall include data for the three calendar month period ending the month before the due date of the report. For each period of excess emissions, such report shall include the date and time of commencement and completion of such

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period, the magnitude and suspected cause of the excess emissions and all actions taken to correct the excess emissions. For each malfunction of the CEMS system, such report shall include the date and time when the malfunction commenced and ended, and all actions taken to correct the malfunction. [RCSA §22a-174-22(1)(4)]

#### 7. VOC

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on No. 2, residual fuel oil, or co-firing either No. 2 or residual fuel oil with natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
VOC	34.29	0.008	149.16

- ii. The Permittee shall not exceed the following emission limits when operating solely on natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
VOC	6.43	0.0015	12.181

- iii. The Permittee shall not exceed the following emission limit from burning No. 2, residual fuel oil, and natural gas combined: [Permit No. 117-0031]

<u>Pollutant</u>	<u>TPY</u>
VOC	149.16

##### b. Monitoring Requirements

The Permittee shall monitor the hourly and annual fuel consumption rates. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to show compliance with the lb/MMBtu and lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month VOC emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit No. 117-0031]

#### 8. CO

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on No. 2, residual fuel oil, or co-firing either No. 2 or residual fuel oil with natural gas: [Permit No. 117-0031]

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<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
CO	150.0	0.035	652.50

- ii. The Permittee shall not exceed the following emission limits when operating solely on natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
CO	171.4	0.040	324.82

- iii. The Permittee shall not exceed the following emission limit from burning No. 2, residual fuel oil, and natural gas combined: [Permit No. 117-0031]

<u>Pollutant</u>	<u>TPY</u>
CO	693.15

*b. Monitoring Requirements*

The Permittee shall monitor the hourly and annual fuel consumption rates.  
[RCSA 22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to show compliance with the lb/MMBtu and lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation.  
[Permit No. 117-0031]

## 9. Pb

*a. Limitation or Restriction*

The Permittee shall not exceed the following emission limits when operating on No. 2, residual fuel oil, or co-firing either No. 2 or residual fuel oil with natural gas: [Permit No. 117-0031]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
Pb	0.493	0.0001	2.145

*b. Monitoring Requirements*

The Permittee shall monitor the hourly and annual fuel consumption rates.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to show compliance with the lb/MMBtu and lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]

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- ii. The Permittee shall calculate and record the monthly and consecutive 12 month Pb emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and shutdown shall be counted towards the annual emission limitation.  
[Permit No. 117-0031]

#### 10. Opacity

##### a. Limitation or Restriction

- i. Except during a period of startup, shutdown or malfunction; commissioner-approved stack testing; or intentional soot blowing, fuel switching or sudden load changing done in accordance with good engineering practices, the Permittee shall not exceed the following visible emissions limits:  
[RCSA §§22a-174-18(b)(2)(A), (B) and -18(j)(1)(A)]
  - (A) Twenty percent (20%) opacity during any six-minute block average; or
  - (B) Forty percent (40%) opacity during any one-minute block average.
- ii. The period of exception from the visible emissions standards of RCSA §22a-174-18(b)(2) does not exceed 0.5% of the total operating hours of such stationary source during any calendar quarter.  
[RCSA §22a-174-18(j)(1)(B)]
- iii. The Permittee shall not cause or allow visible emissions in excess of 60% opacity during any six-minute block average of the period of exception from the visible emission standards of RCSA §22a-174-18(b)(2). [RCSA §22a-174-18(j)(1)(C)]

##### b. Monitoring Requirements

- i. The Permittee shall install, calibrate, maintain, operate, and certify a CEMS for opacity. The CEMS shall be calibrated, operated and tested in accordance with Connecticut Department of Energy and Environmental Protection (CT DEEP) CEMS Guideline and with the requirements specified in 40 CFR Part 60 Subpart A, Appendices B and F, as may be amended from time to time.  
[RCSA §§22a-174-4(b)(1) and -4(c)(4)(A)]
- ii. The Permittee shall calibrate the opacity CEMS daily and Neutral Density Filter Audits shall be conducted quarterly. [40 CFR §64.3(a)(3)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep all charts, electronically stored data, and printed records produced by the opacity CEMS. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall make and keep records of data sufficient to determine the one-minute and six-minute block opacity averages. These records shall also include documentation of the daily calibrations and the quarterly audits done; as well as any corrective action taken to address an exceedance of the opacity limits. [40 CFR §64.9(b)]

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#### *d. Reporting Requirements*

The Permittee shall submit a report that includes a summary of the opacity CEMS performance data, times and duration of instances when the data recorded was outside of an indicated performance range. The report shall also include corrective actions taken to address an exceedance or a statement that all readings were within the performance range. [RCSA §22a-174-33(o)(1) and 40 CFR §64.9(a)]

### **11. Operation and Maintenance**

#### *a. Limitation or Restriction*

- i. The Permittee shall operate and maintain the emission unit and associated air pollution control equipment in accordance with the manufacturer's specifications, written recommendations and/or good engineering practices. [Permit No. 117-0031 and 40 CFR §63.10000(b)]
- ii. The Permittee shall conduct a tune-up of the EGU burner and combustion controls at least each 36 calendar months, or each 48 calendar months if neural network combustion optimization software is employed, as specified in 40 CFR §63.10021(e). [40 CFR §63.9991(a)(1), 40 CFR §§63.10000(c)(2)(iv) & (e), 40 CFR §63.10005(e), 40 CFR §63.10006(i), 40 CFR §§63.10021(a) & (e) and 40 CFR Part 63 Subpart UUUUU, Table 3, No. 1 and Table 7, Nos. 5-7]
- iii. The Permittee shall determine the fuel whose combustion produces the least uncontrolled emissions, i.e., the cleanest fuel, either natural gas or distillate oil, that is available on site or accessible nearby for use during periods of startup or shutdown. The Permittee may take safety considerations into account. [40 CFR §§63.10011(f)(1) and (2)]
- iv. The Permittee shall conduct periodic performance tune-ups of the EGU as follows:
  - (A) As applicable, inspect the burner and combustion controls, and clean or replace any components of the burner or combustion controls as necessary upon initiation of the work practice program and at least once every required inspection period. Repair of a burner or combustion control component requiring special order parts may be scheduled as follows: [40 CFR §§63.10021(e)(1)(i) and (ii)]
    - (1) Burner or combustion control component parts needing replacement that affect the ability to optimize NO<sub>x</sub> and CO shall be installed within three calendar months after the burner inspection,
    - (2) Burner or combustion control component parts that do not affect the ability to optimize NO<sub>x</sub> and CO may be installed on a schedule determined by the operator;
  - (B) As applicable, inspect the flame pattern and make any adjustments to the burner or combustion controls necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available, or in accordance with best combustion engineering practice for that burner type; [40 CFR §63.10021(e)(2)]
  - (C) As applicable, evaluate windbox pressures and air proportions, making adjustments and effecting repair to dampers, actuators, controls, and sensors; [40 CFR §63.10021(e)(4)]
  - (D) Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly. Such inspection may include calibrating excess O<sub>2</sub> probes and/or sensors,

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adjusting overfire air systems, changing software parameters, and calibrating associated actuators and dampers to ensure that the systems are operated as designed. Any component out of calibration, in or near failure, or in a state that is likely to negate combustion optimization efforts prior to the next tune-up, should be corrected or repaired as necessary; [40 CFR §63.10021(e)(5)]

- (E) Optimize combustion to minimize generation of CO and NO<sub>x</sub>. This optimization should be consistent with the manufacturer's specifications, if available, or best combustion engineering practice for the applicable burner type. NO<sub>x</sub> optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, adjusting combustion zone temperature profiles, and add-on controls such as SCR and SNCR; CO optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, and adjusting combustion zone temperature profiles; [40 CFR §63.10021(e)(6)]
- (F) While operating at full load or the predominantly operated load, measure the concentration in the effluent stream of CO and NO<sub>x</sub> in ppm, by volume, and oxygen in volume percent, before and after the tune-up adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). The Permittee may use portable CO, NO<sub>x</sub> and O<sub>2</sub> monitors for this measurement. EGU's employing neural network optimization systems need only provide a single pre- and post-tune-up value rather than continual values before and after each optimization adjustment made by the system; [40 CFR §63.10021(e)(7)]
  - (1) The Permittee is required to meet the work practice requirements in 40 CFR Part 63 Subpart UUUUU, Table 3 during periods of startup or shutdown. [40 CFR §63.10000(a)]
  - (2) The Permittee shall comply with the applicable General Provisions listed in 40 CFR Part 63 Subpart UUUUU, Table 9. [40 CFR §63.10040 and 40 CFR Part 63 Subpart UUUUU, Table 9]

#### *b. Monitoring Requirements*

The Permittee shall demonstrate that compliance has been achieved, by conducting the required performance tests and other activities, no later than 180 days after the applicable date in 40 CFR §63.9984(a), (b), (c), (d), or (e). [40 CFR §63.9984(f)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep a copy of the boiler's operating guidance created using good engineering practices, manufacturer's recommendations and operating experience. The Permittee shall maintain records sufficient to demonstrate that the boiler is operated in accordance with this guidance. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. For existing affected sources a tune-up may occur prior to April 16, 2012, so that existing sources without neural networks have up to 42 calendar months (three years from promulgation plus 180 days) or, in the case of units employing neural network combustion controls, up to 54 calendar months (48 months from promulgation plus 180 days) after the date that is specified for the Permittee's source in 40 CFR §63.9984 and according to the applicable provisions in 40 CFR §63.7(a)(2) as cited in 40 CFR Part 63 Subpart UUUUU, Table 9 to demonstrate compliance with this

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requirement. If a tune-up occurs prior to such date, the source shall maintain adequate records to show that the tune-up met the requirements of this standard. [40 CFR §63.10005(f)]

- iii. The Permittee shall make and keep the following records during each startup period for each EGU: [40 CFR §63.10020(e)(1)]
  - (A) The date and time that clean fuels being combusted for the purpose of startup begins;
  - (B) The quantity and heat input of clean fuel for each hour of startup;
  - (C) The electrical load for each hour of startup;
  - (D) The date and time that non-clean fuel combustion begins; and
  - (E) The date and time that clean fuels being combusted for the purpose of startup ends.
- iv. The Permittee shall make and keep the following records during each shutdown period for each EGU: [40 CFR §63.10020(e)(2)]
  - (A) The date and time that clean fuels being combusted for the purpose of shutdown begins;
  - (B) The quantity and heat input of clean fuel for each hour of shutdown;
  - (C) The electrical load for each hour of shutdown;
  - (D) The date and time that non-clean fuel combustion ends; and
  - (E) The date and time that clean fuels being combusted for the purpose of shutdown ends.
- v. The Permittee shall maintain on-site and submit, if requested by the Administrator, an annual report containing the information in 40 CFR §§63.10021(e)(1) through (e)(9) including: [40 CFR §§63.10021(e)(8)(i)-(iii)]
  - (A) The concentrations of CO and NO<sub>x</sub> in the effluent stream in ppm by volume, and oxygen in volume percent, measured before and after an adjustment of the EGU combustion systems;
  - (B) A description of any corrective actions taken as a part of the combustion adjustment; and
  - (C) The type(s) and amount(s) of fuel used over the 12 calendar months prior to an adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period.
- vi. The Permittee shall make and keep the following records regarding startup periods or shutdown periods: [Permit No. 117-0031, 40 CFR §63.10021(h) and 40 CFR §63.10032(f)]
  - (A) The occurrence and duration of each startup or shutdown;
  - (B) The determination of the maximum clean fuel capacity for each EGU;
  - (C) The determination of the maximum hourly clean fuel heat input and of the hourly clean fuel heat input for each EGU; and



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- (D) The information required in 40 CFR §63.10020(e).
- vii. The Permittee shall make and keep records of the occurrence and duration of each malfunction of an operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.10032(g)]
- viii. The Permittee shall make and keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.10000(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.10032(h)]
- ix. The Permittee shall make and keep records of the type(s) and amount(s) of fuel used during each startup or shutdown. [40 CFR §63.10032(i)]
- x. The Permittee shall make and keep records of the type(s) and amount(s) of fuel use in each calendar quarter to document that the capacity factor limitation for the limited-use liquid oil-fired subcategory is met. [40 CFR §63.10032(j)]
- xi. The Permittee's records shall be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). [40 CFR §63.10033(a)]
- xii. As specified in 40 CFR §63.10(b)(1), the Permittee shall make and keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.10033(b)]
- xiii. The Permittee shall make and keep each record on site for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). The Permittee can keep the records off site for the remaining three years. [40 CFR §63.10033(c)]
- xiv. The Permittee shall make and keep records sufficient to show compliance with applicable General Provisions requirements of 40 CFR Part 63 Subpart UUUUU, Table 9. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

- i. The Permittee shall meet the notification requirements in 40 CFR §63.10030 according to the schedule in 40 CFR §63.10030 and in 40 CFR Part 63 Subpart A. Some of the notifications shall be submitted before the Permittee is required to comply with the emission limits and work practice standards. [40 CFR §63.9984(c) and 40 CFR §63.10005(k)]
- ii. The Permittee shall submit a semiannual compliance report according to the requirements in 40 CFR §63.10031(b). [40 CFR §§63.10031(a) & (b) and 40 CFR Part 63 Subpart UUUUU, Table 8, No. 1]
- iii. The compliance report shall contain the following:  
[40 CFR §§63.10031(c)(1)-(4) and 40 CFR Part 63 Subpart UUUUU, Table 8, No. 1, a-c]
- (A) The information required by the summary report located in 40 CFR §63.10(e)(3)(vi);

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- (B) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by EPA or the Permittee's basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure;
  - (C) Indicate whether the Permittee burned new types of fuel during the reporting period. If the Permittee did burn new types of fuel the Permittee shall include the date of the performance test where that fuel was in use;
  - (D) Include the date of the most recent tune-up for each unit subject to the requirement to conduct a performance tune-up according to 40 CFR §63.10021(e). Include the date of the most recent burner inspection if it was not done every 36 (or 48) months and was delayed until the next scheduled unit shutdown;
  - (E) If there are no deviations from any applicable emission limitation (emission limit and operating limit) and there are no deviations from the applicable requirements for work practice standards in 40 CFR Part 63 Subpart UUUUU, Table 3, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CEMS and operating parameter monitoring systems, were out-of-control as specified in 40 CFR §63.8(c)(7), a statement that there were no periods during which the CEMS were out-of-control during the reporting period; and
  - (F) If there is a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report shall contain the information in 40 CFR §63.10031(d). If there were periods during which the CEMS and continuous parameter monitoring systems, were out-of-control, as specified in 40 CFR §63.8(c)(7), the report shall contain the information in 40 CFR §63.10031(e).
- iv. The Permittee of the affected source experiencing an exceedance of its emission limit(s) during a malfunction shall notify the Administrator by telephone or facsimile transmission as soon as possible, but no later than two business days after the initial occurrence of the malfunction or, if it is not possible to determine within two business days whether the malfunction caused or contributed to an exceedance, no later than two business days after the Permittee knew or should have known that the malfunction caused or contributed to an exceedance, but, in no event later than two business days after the end of the averaging period, if it wishes to avail itself of an affirmative defense to civil penalties for that malfunction. The Permittee seeking to assert an affirmative defense shall also submit a written report to the Administrator within 45 days of the initial occurrence of the exceedance of the standard in 40 CFR §63.9991 to demonstrate, with all necessary supporting documentation, that it has met the requirements set forth in 40 CFR §63.10001(a). The Permittee may seek an extension of this deadline for up to 30 additional days by submitting a written request to the Administrator before the expiration of the 45 day period. Until a request for an extension has been approved by the Administrator, the Permittee is subject to the requirement to submit such report within 45 days of the initial occurrence of the exceedance. [40 CFR §63.10001(b)]
- v. The Permittee shall report the results of performance tests and performance tune-ups within 60 days after the completion of the performance tests and performance tune-ups. The reports for all subsequent performance tests shall include all applicable information required in 40 CFR §63.10031. [40 CFR §63.10006(j)]

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- vi. The Permittee shall report the dates of the initial and subsequent tune-ups as follows:  
[40 CFR §§63.10021(e)(9)(i) and (ii)]
  - (A) If the first required tune-up is performed as part of the initial compliance demonstration, report the date of the tune-up in hard copy (as specified in 40 CFR §63.10030) and electronically (as specified in 40 CFR §63.10031). Report the date of each subsequent tune-up electronically (as specified in 40 CFR §63.10031).
  - (B) If the first tune-up is not conducted as part of the initial compliance demonstration, but is postponed until the next unit outage, report the date of that tune-up and all subsequent tune-ups electronically, in accordance with 40 CFR §63.10031.
- vii. The Permittee shall report each instance in which they did not meet an applicable emissions limit or operating limit in 40 CFR Part 63 Subpart UUUUU, Tables 1 through 4 or failed to conduct a required tune-up. These instances are deviations from the requirements of 40 CFR Part 63 Subpart UUUUU. These deviations shall be reported according to 40 CFR §63.10031.  
[40 CFR §63.10021(g)]
- viii. The Permittee shall provide reports as specified in 40 CFR §63.10031 concerning activities and periods of startup and shutdown. [40 CFR §63.10021(i)]
- ix. The Permittee shall submit all of the applicable notifications in 40 CFR §§63.7(b) and (c), §§63.8 (e), (f)(4) and (6), and §§63.9 (b) through (h) by the dates specified. [40 CFR §63.10030(a)]
- x. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 or Part 71 shall report all deviations as defined in 40 CFR Part 63 Subpart UUUUU in the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to 40 CFR Part 63 Subpart UUUUU, Table 8 along with, or as part of, the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. Submission of a compliance report does not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [40 CFR §63.10031(e)]
- xi. On or after April 16, 2017, within 60 days after the date of completing each performance test, the Permittee shall submit the results of the performance tests required by 40 CFR Part 63 Subpart UUUUU to EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange-(CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). [40 CFR §63.10031(f)]
- xii. On or after April 16, 2017, the Permittee shall submit the compliance reports required under 40 CFR §§63.10031(c) and (d) and the notification of compliance status required under 40 CFR §63.10030(e) to EPA's WebFIRE database by using the CEDRI that is accessed through EPA's CDX ([www.epa.gov/cdx](http://www.epa.gov/cdx)). [40 CFR §63.10031(f)(4)]
- xiii. All reports required by 40 CFR Part 63 Subpart UUUUU not subject to the requirements in 40 CFR §63.10031(f) introductory text and 40 CFR §§63.10031(f)(1) through (4) shall be sent to the Administrator at the appropriate address listed in 40 CFR §63.13. If acceptable to both the Administrator and the Permittee, these reports may be submitted on electronic media. The

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Administrator retains the right to require submittal of reports subject to paragraphs 40 CFR §63.10031(f) introductory text and 40 CFR §§63.10031(f)(1) through (4) in paper format.  
[40 CFR §63.10031(f)(5)]

- xiv. 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 which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. [40 CFR §63.10031(g)]

#### **12. Maximum Economic Output**

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

- i. The Permittee shall reduce the economic maximum output of EU-1 by 4 MW per turbine, for each hour or portion thereof that a turbine covered by GEU-1 operates simultaneously with EU-1. [Permit No. 117-0031]
  - (A) For the purpose of this condition, economic maximum output is the maximum available output, in MW, that the Permittee offers to supply to Independent System Operator-New England (ISO-NE) in the Day-Ahead Energy Market or Real-Time Energy Market as reflected in the Supply Offer made by the Permittee for EU-1. This represents the highest MW output Permittee has offered for EU-1 for economic dispatch.
  - (B) The net power output from EU-1 during any hour shall not exceed the economic maximum output declared for that hour.
  - (C) This condition shall not apply during a declared system reserve deficiency as detailed in ISO-NE Operating Procedures 4 “Action during Capacity Deficiency”.

##### *b. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the economic maximum output of EU-1 as declared by the Permittee on an hourly basis. Such records shall also include any re-declared economic maximum output resulting from the operation of the turbines covered by GEU-1. The Permittee shall maintain copies of these declarations as they are made. [Permit No. 117-0031]
- ii. The Permittee shall make and keep hourly records of the net power output of EU-1 obtained from a watt meter that is maintained and calibrated and that continuously monitors the net power output of EU-1. [Permit No. 117-0031]
- iii. The retention period for maintaining records under Section III.A.12 of this Title V permit shall automatically be extended during the course of any unresolved enforcement action. [Permit No. 117-0031]

#### **13. Ozone Season Operation**

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

- i. During the Ozone Season, the Permittee shall co-fire EU-1 with natural gas. [Permit No. 117-0031]
  - (A) The natural gas fuel firing rate, in standard cubic feet per hour (scf/hr) shall be an amount

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averaging at a minimum over each calendar day between 450 thousand cubic feet (mcf) and 550 mcf per hour of natural gas, except during startup, load shift or shutdown or when the availability of the natural gas is restricted.

- (B) For the purposes of this condition, the “Ozone Season” shall be the period from April 1 through September 30 of each calendar year, or another time period designated by the federal EPA in 40 CFR Part 58 Appendix D, as may be amended from time to time.

#### *b. Record Keeping Requirements*

- i. At the time each turbine covered by GEU-1 is operating, the Permittee shall make and keep records of the date and the starting and stopping time of each turbine’s operation. For each turbine, the Permittee shall tabulate the number of hours of operation for each calendar month and shall maintain this tabulation of total hours operated. [Permit No. 117-0031]
- ii. At the time that EU-1 is operating, the Permittee shall make and keep records of the date and time EU-1 is operated, the types of fuel fired in EU-1 during such operation and the hourly usage of each fuel fired in EU-1. [Permit No. 117-0031]
- iii. The retention period for maintaining records under Section III.A.13 of this Title V permit shall automatically be extended during the course of any unresolved enforcement action. [Permit No. 117-0031]

### **14. Non-Ozone Season Operation**

#### *a. Limitation or Restriction*

- i. During the non-ozone season, for each hour that the Permittee operates EU-1 simultaneously with one or more of the turbines covered by GEU-1, the Permittee shall co-fire EU-1 with natural gas for at least one hour for each hour, or portion thereof, that any turbine is operated. [Permit No. 117-0031]
  - (A) If the availability of natural gas is restricted when the Permittee is dispatched by ISO-NE to operate EU-1, the Permittee shall ensure that EU-1 is co-fired with natural gas, to meet the requirements of Section III.A.14.a.i of this Title V permit, during its next period of operation, and any subsequent periods of operation, that the availability of natural gas is not restricted.
  - (B) The natural gas fuel firing rate, in scf/hr, shall be an amount averaging at a minimum over each calendar day between 450 mcf and 550 mcf per hour of natural gas, except during startup, load shift or shutdown.

#### *b. Record Keeping Requirements*

- i. At the time each turbine covered by GEU-1 is operating, the Permittee shall make and keep records of the date and the starting and stopping time of each turbine’s operation. For each turbine, the Permittee shall tabulate the number of hours of operation for each calendar month and shall maintain this tabulation of total hours operated. [Permit No. 117-0031]
- ii. At the time that EU-1 is operating, the Permittee shall make and keep records of the date and time EU-1 is operated, the types of fuel fired in EU-1 during such operation and the hourly usage of each fuel fired in EU-1. [Permit No. 117-0031]

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- iii. The retention period for maintaining records under Section III.A.14 of this Title V permit shall automatically be extended during the course of any unresolved enforcement action.  
[Permit No. 117-0031]

#### **15. ISO-NE Daily Bid**

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

The Permittee shall ensure that in its daily bid to ISO-NE regarding EU-1, the minimum required run time for EU-1 is not more than 12 hours. [Permit No. 117-0031]

##### *b. Record Keeping Requirements*

- i. The Permittee shall maintain records sufficient to demonstrate compliance with the minimum daily bid requirement. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The retention period for maintaining records under Section III.A.15 of this Title V permit shall automatically be extended during the course of any unresolved enforcement action.  
[Permit No. 117-0031]

#### **B. EU-2 (Auxiliary Steam Generator)**

**The compliance date for the requirements of 40 CFR Part 63 Subpart DDDDD is 1/31/16.**

##### **1. No. 2 Fuel Oil**

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

- i. The firing rate of No. 2 fuel oil shall not exceed 997 gal/hr. [Permit No. 117-0021]
- ii. The combined annual fuel usage for all fuel types shall not exceed 125,000 MMBtu over any consecutive 12 months. [Permit No. 117-0021]
- iii. The sulfur content of No. 2 fuel oil shall not exceed 0.3% by weight (dry basis).  
[Permit No. 117-0021]

##### *b. Monitoring Requirements*

- i. The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [Permit No. 117-0021]
- ii. The Permittee shall have sulfur content of the fuel analyzed according to the most current methods approved by the American Society for Testing and Materials for the analysis of sulfur content of liquid fuels. [RCSA §22a-174-5(b)(1)]

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

- i. The Permittee shall make and keep fuel use records for the days the boiler was operating.  
[40 CFR §63.7525(k)]
- ii. The Permittee shall make and keep records of monthly and consecutive 12 month fuel consumption

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by volume and by BTU. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0021]

- iii. The Permittee shall make and keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by this equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [Permit No. 117-0021]

#### 2. Propane

##### a. Limitation or Restriction

The combined annual fuel usage for all fuel types shall not exceed 125,000 MMBtu over any consecutive 12 months. [Permit No. 117-0021]

##### b. Monitoring Requirements

The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [Permit No. 117-0021]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep fuel use records for the days the boiler was operating. [40 CFR §63.7525(k)]
- ii. The Permittee shall make and keep records of monthly and consecutive 12 month fuel consumption by volume and by BTU. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0021]

#### 3. PM

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on No. 2 fuel oil: [Permit No. 117-0021]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>
PM	13.96	0.10

- ii. The Permittee shall not exceed the following emission limit from burning No. 2 fuel oil and propane combined: [Permit No. 117-0021]

<u>Pollutant</u>	<u>TPY</u>
PM	6.25

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*b. Monitoring Requirements*

The Permittee shall calculate annual emissions using the fuel usage and emission factors obtained from stack testing or from the latest version of AP-42. [RCSA §22a-174-33(j)(l)(K)(ii)]

*c. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and lb/MMBtu emission limits for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0021]

#### 4. SO<sub>x</sub>

*a. Limitation or Restriction*

- i. The Permittee shall not exceed the following emission limits when operating on No. 2 fuel oil: [Permit No. 117-0021]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>
SO <sub>x</sub>	46.06	0.33

- ii. The Permittee shall not exceed the following emission limit from burning No. 2 fuel oil and propane combined: [Permit No. 117-0021]

<u>Pollutant</u>	<u>TPY</u>
SO <sub>x</sub>	20.63

*b. Record Keeping Requirements*

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and lb/MMBtu emission limits for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall make and keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by this equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [Permit No. 117-0021]
- iii. The Permittee shall calculate and record the monthly and consecutive 12 month SO<sub>x</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0021]



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

##### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits when operating on No. 2 fuel oil:  
[Permit No. 117-0021]

<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>
NO <sub>x</sub>	27.92	0.20

- ii. The Permittee shall not exceed the following emission limit from burning No. 2 fuel oil and propane combined: [Permit No. 117-0021]

<u>Pollutant</u>	<u>TPY</u>
NO <sub>x</sub>	12.50

##### b. Monitoring Requirements

- i. The Permittee shall conduct a NO<sub>x</sub> emission test, in accordance with the methodology in RCSA §22a-174-22(k), at least once every five years from the date of the previous stack test.  
[Permit No. 117-0021 and RCSA §22a-174-22(k)(1)]
- ii. Compliance with the emission limitations of RCSA §22a-174-22 shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period and performed in accordance with RCSA §22a-174-5. Any analysis of nitrogen content conducted as part of such emission testing shall be in accordance with Method D-3228 of the American Society for the Testing of Materials. [Permit No. 117-0021 and RCSA §22a-174-22(k)(1)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and lb/MMBtu emission limits for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month NO<sub>x</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0021]
- iii. The Permittee shall make and keep records of all tune-ups, repairs, replacement of parts and other maintenance done on the unit. [Permit No. 117-0021 and RCSA §22a-174-22(l)(1)(D)]
- iv. The Permittee shall make and keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22. [Permit No. 117-0021 and RCSA §22a-174-22(l)(1)(E)]
- v. The Permittee shall make and keep records of the dates, times, and places of all emission testing done on this unit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing.  
[Permit No. 117-0021 and RCSA §22a-174-22(l)(1)(H)]

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#### *d. Reporting Requirements*

The Permittee shall submit stack test results within 30 days after completion of testing. Stack test results shall be reported as follows: NO<sub>x</sub> in units of lb/hr and lb/MMBtu.

[Permit No. 117-0021 and RCSA §22a-174-22(1)(2)]

#### **6. Opacity**

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

- i. The Permittee shall not exceed the following visible emissions limits:

[Permit No. 117-0021 and RCSA §§22a-174-18(b)(1)(A) and (B)]

(A) Twenty percent (20%) opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9; or

(B) Forty percent (40%) opacity as measured by 40 CFR Part 60, Appendix A, Reference Method 9, reduced to a one-minute block average.

##### *b. Record Keeping Requirements*

The Permittee shall make and keep records of the dates, times, and places of visible emissions observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### **7. Operation and Maintenance**

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

The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and good engineering practices. [Permit No. 117-0021]

##### *b. Record Keeping Requirements*

The Permittee shall make and keep a copy of the boiler's operating guidance created using good engineering practices, manufacturer's recommendations and operating experience. The Permittee shall maintain records sufficient to demonstrate that the boiler is operated in accordance with this guidance. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### **8. Work Practice**

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

- i. The Permittee shall conduct a tune-up of the boiler every five years to demonstrate continuous compliance. [40 CFR §63.7500(c) and 40 CFR §63.7540(a)(12) and 40 CFR Part 63 Subpart DDDDD, Table 3, No. 1]
- ii. If the unit is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 calendar days of startup. [40 CFR §63.7540(a)(13)]

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- iii. The tune-up shall consist of the following: [40 CFR §§63.7540(a)(10)(i)-(v)]
- (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown but the Permittee shall inspect each burner at least once every 72 months). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
  - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
  - (C) Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;
  - (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject; and
  - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

*b. Monitoring Requirements*

The Permittee shall demonstrate continuous compliance with the applicable work practice standards in 40 CFR Part 63 Subpart DDDDD, Table 3. [40 CFR §63.7540(a)]

*c. Record Keeping Requirements*

- i. The Permittee shall make, keep on-site and submit, if requested by the Administrator, an annual report containing the following information: [40 CFR §§63.7540(a)(10)(vi)(A)-(C)]
- (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
  - (B) A description of any corrective actions taken as a part of the tune-up; and
  - (C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.
- ii. The Permittee shall make and keep the following records: [40 CFR §§63.7555(a)(1) and (2)]
- (A) A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of

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Compliance Status or semiannual compliance report submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv).

- (B) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).
- iii. The Permittee's records shall be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). [40 CFR §63.7560(a)]
- iv. As specified in 40 CFR §63.10(b)(1), the Permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.7560(b)]
- v. The Permittee shall keep each record on site, or they shall be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). The Permittee can keep the records off site for the remaining three years. [40 CFR §63.7560(c)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit to the Administrator all of the applicable notifications in 40 CFR §§63.7(b) and (c), 40 CFR §§63.8(e), (f)(4) and (6), and 40 CFR §§63.9(b) through (h) by the dates specified. [40 CFR §63.7545(a)]
- ii. The Permittee shall submit five year compliance report instead of a semi-annual compliance report, as specified below: [40 CFR §§63.7550(b)(1)-(4)]
  - (A) The first compliance report shall cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least five years after the compliance date that is specified for the source in 40 CFR §63.7495.
  - (B) The first compliance report shall be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR §63.7495. The first five year compliance report shall be postmarked or submitted no later than January 31.
  - (C) Each subsequent compliance report shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Five year compliance reports shall cover the applicable five year periods from January 1 to December 31.
  - (D) Each subsequent compliance report shall be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Five year compliance reports shall be postmarked or submitted no later than January 31.
- iii. The five year compliance report shall contain the following information:  
[40 CFR §§63.7550(c)(5)(i)-(iv) and (xiv)]
  - (A) Company and Facility name and address;

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- (B) Process unit information, emissions limitations, and operating parameter limitations;
  - (C) Date of report and beginning and ending dates of the reporting period;
  - (D) The total operating time during the reporting period; and
  - (E) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct 5-year tune-up according to 40 CFR §63.7540(a)(12). Include the date of the most recent burner inspection if it was not done on a five year period and was delayed until the next scheduled or unscheduled unit shutdown.
- iv. The Permittee shall submit all reports required by 40 CFR Part 63 Subpart DDDDD, Table 9 electronically using the CEDRI that is accessed through the EPA's CDX ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to 40 CFR Part 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, the Permittee shall submit the report to the Administrator at the appropriate address listed in 40 CFR §63.13. At the discretion of the Administrator, the Permittee shall also submit these reports, to the Administrator in the format specified by the Administrator. [40 CFR §63.7550(h)(3)]

#### **C. EU-3 (Emergency Generator)**

##### **1. Hours of Operation**

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

The generator shall not be operated except during periods of testing and scheduled maintenance or during an emergency and operation shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

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

The Permittee shall monitor the hours of operation of the emergency generator using log entries of the hours run each day. [RCSA §22a-174-33(j)(1)(K)(ii)]

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

The Permittee shall make and keep records of the hours of operation for each month and each 12 month rolling aggregate. Such records shall include the date and purpose the emergency generator was operated. [RCSA §22a-174-3b(e)(4)]

##### **2. Fuel Sulfur Content**

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

Any nongaseous fuel consumed by the engine shall not exceed the sulfur content of “motor vehicle diesel fuel” as defined in RCSA §22a-174-42(a). [RCSA §22a-174-3b(e)(2)(D)]

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#### *b. Monitoring Requirements*

The Permittee shall monitor the sulfur content of the fuel used by the emergency generator, using either: a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a sales receipt for the sale of motor vehicle diesel fuel from a retail location; or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records of: a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a sales receipt for the sale of motor vehicle diesel fuel from a retail location or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

### **3. Operation and Maintenance**

#### *a. Limitation or Restriction*

The Permittee shall properly maintain equipment and operate such engine in accordance with RCSA §22a-174-3b(e). [RCSA §22a-174-3b(e)(1)]

#### *b. Record Keeping Requirements*

The Permittee shall make and keep a copy of the engine's operating guidance created using good engineering practices, manufacturer's recommendations and operating experience. The Permittee shall maintain records sufficient to demonstrate that the engine is operated in accordance with this guidance. [RCSA §22a-174-33(j)(1)(K)(ii)]

### **D. EU-4 (Fire Pump Engine)**

**RICE MACT Designation: Emergency, Existing CI, ≤500 Bhp, Constructed before 6/12/06**

#### **1. Operation and Maintenance**

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

- i. The Permittee shall properly maintain equipment and operate such engine in accordance with RCSA §22a-174-3b(e). [RCSA §22a-174-3b(e)(1)]
- ii. The Permittee shall meet the following requirements, except during periods of startup: [40 CFR §63.6602, 40 CFR §63.6640(a) and 40 CFR Part 63 Subpart ZZZZ, Table 2c, No. 1]
  - (A) Change oil and filter every 500 hours of operation or annually, whichever comes first;
  - (B) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
  - (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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- iii. During periods of startup, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR §63.6625(h), 40 CFR Part 63 Subpart ZZZZ, Table 2c, No. 1]
- iv. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in 40 CFR Part 63 Subpart ZZZZ, Table 2c, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. [40 CFR Part 63 Subpart ZZZZ, Table 2c, Footnote 1]
- v. The Permittee shall be in compliance with the applicable emission limitation and other requirements in 40 CFR Part 63 Subpart ZZZZ at all times. [40 CFR §63.6605(a)]
- vi. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- vii. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 40 CFR Part 63 Subpart ZZZZ, Table 2c. The oil analysis shall be performed at the same frequency specified for changing the oil in 40 CFR Part 63 Subpart ZZZZ, Table 2c. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within two business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within two business days or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the engine. [40 CFR §63.6625(i) and 40 CFR Part 63 Subpart ZZZZ, Table 2c, Footnote 2]
- viii. The Permittee can petition the Administrator pursuant to the requirements of 40 CFR §63.6(g) for alternative work practices. [40 CFR Part 63 Subpart ZZZZ, Table 2c, Footnote 3]
- ix. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by the standards of 40 CFR Part 63 Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]

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- x. The Permittee shall operate the emergency stationary RICE according to the requirements in 40 CFR §63.6640(f)(2). Any operation other than emergency operation and maintenance and testing as described in 40 CFR §63.6640(f)(2), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR §63.6640(f)(2), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and will need to meet all requirements for non-emergency engines. [40 CFR §63.6640(f)]
- xi. The Permittee may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR §63.6640(f)(2)(i)]
- xii. The Permittee shall comply with the applicable General Provisions requirements according to 40 CFR Part 63 Subpart ZZZZ, Table 8. [40 CFR §63.6665 and 40 CFR Part 63 Subpart ZZZZ, Table 8]

#### *b. Monitoring Requirements*

- i. The Permittee shall demonstrate continuous compliance by:  
[40 CFR §63.6640(a) and 40 CFR Part 63 Subpart ZZZZ, Table 6, No. 9]
  - (A) Operating and maintaining the stationary RICE according to the manufacturer's emission – related operation and maintenance instructions; or
  - (B) Develop and follow the Permittee's own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.  
[40 CFR §63.6625(i)]
- ii. The Permittee shall make and keep the following records: [40 CFR §§63.6655(a)(1)-(5)]
  - (A) A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Notification of Compliance Status submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv).
  - (B) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
  - (C) Records of performance tests and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).
  - (D) Records of all required maintenance performed on the air pollution control and monitoring equipment.



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- (E) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- iii. The Permittee shall make and keep the records required in 40 CFR Part 63 Subpart ZZZZ, Table 6 to show continuous compliance with each applicable emission or operating limitation.  
[40 CFR §63.6655(d)]
- iv. The Permittee shall make and keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the Permittee's own maintenance plan.  
[40 CFR §63.6655(e)]
- v. The Permittee's records shall be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]
- vi. As specified in 40 CFR §63.10(b)(1), the Permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.  
[40 CFR §63.6660(b)]
- vii. The Permittee shall keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(c)]

#### *d. Reporting Requirements*

- i. The Permittee shall report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.  
[40 CFR Part 63 Subpart ZZZZ, Table 2c, Footnote 1]
- ii. The Permittee shall report each instance in which they did not meet each applicable emission limitation or operating limitation in 40 CFR Part 63 Subpart ZZZZ, Table 2c. These instances are deviations from the emission and operating limitations in 40 CFR Part 63 Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR §63.6650.  
[40 CFR §63.6640(b)]
- iii. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 or 71 shall report all deviations as defined in 40 CFR Part 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR Part 63 Subpart ZZZZ, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report.. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [40 CFR §63.6650(f)]
- iv. The Permittee shall also report each instance in which they did not meet the applicable requirements in 40 CFR Part 63 Subpart ZZZZ, Table 8. [40 CFR §63.6640(e)]

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### **2. Maximum Hours of Operation**

#### *a. Limitation or Restriction*

The generator shall not be operated except during periods of testing and scheduled maintenance or during an emergency and operation shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

#### *b. Monitoring Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the hours of operation for each month and each 12 month rolling aggregate. Such records shall include the date and purpose the emergency generator was operated. [RCSA §22a-174-3b(e)(4)]
- ii. The Permittee shall make and keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency. If the engine is used for the purpose specified in 40 CFR §63.6640(f)(2)(ii) or (iii), the Permittee shall make and keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR §63.6655(f)]

### **3. Fuel Sulfur Content**

#### *a. Limitation or Restriction*

- i. Any nongaseous fuel consumed by the engine shall not exceed the sulfur content of “motor vehicle diesel fuel” as defined in RCSA §22a-174-42(a). [RCSA §22a-174-3b(e)(2)(D)]
- ii. The Permittee shall use diesel fuel that meets the requirements in 40 CFR §80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. [40 CFR §63.6604(b)]

#### *b. Monitoring Requirements*

The Permittee shall monitor the sulfur content of the fuel used by the emergency generator, using either a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records of: a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a sales receipt for the sale of motor vehicle diesel fuel from a retail location or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

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#### E. GEU-1 (3 Combustion Turbines)

##### 1. Maximum Fuel Usage: Natural Gas and ULSD

###### a. Limitation or Restriction

- i. Maximum Natural Gas Consumption over any Consecutive 12 Month Period: 1,564 MMscf/yr (combined for all units) [Permit Nos. 117-0373, 117-0374 and 117-0375]
- ii. Maximum Ultra Low Sulfur Diesel (ULSD) Consumption over any Consecutive 12 Month Period: 5,503 Mgal/yr (combined for all units) [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. Maximum ULSD Sulfur Content (% by weight, dry basis): 0.0015 [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iv. The primary fuel for these turbines shall be natural gas when physically available. The turbines shall fire ULSD only during periods when the physical supply of natural gas is unavailable, as determined by the Southern Connecticut Gas Company or its successor. [Permit Nos. 117-0373, 117-0374 and 117-0375]

###### b. Monitoring Requirements

- i. The Permittee shall install, calibrate, maintain and operate a fuel flow meter to continuously monitor fuel feed and continuously measure the heat input to each turbine. [Permit Nos. 117-0373, 117-0374, 117-0375 and 40 CFR §60.4335(b)(2)]
- ii. Each fuel flow meter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. [40 CFR §60.4345(c)]
- iii. All required fuel flow rate data shall be reduced to hourly averages. [40 CFR §60.4350(e)]
- iv. The Permittee shall use the following equation to determine the allowable fuel usage: [Permit Nos. 117-0373, 117-0374 and 117-0375]

$$\text{Maximum Natural Gas Use} = 1,564 \text{ MMscf/yr} - [(284.21) \times (\text{Fuel}_{\text{ULSD}})]$$

Where:

$$\begin{aligned} 1,564 \text{ MMscf/yr} &= \text{Maximum Annual Consumption of Natural Gas when no ULSD is burned} \\ 284.21 &= \text{Constant} \\ \text{Fuel}_{\text{ULSD}} &= \text{Mgal/yr of ULSD burned (Not to exceed 5,503 Mgal/yr)} \end{aligned}$$

###### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 117-0373, 117-0374 and 117-0375]

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- ii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.
- iii. The Permittee shall develop and keep on-site a quality assurance (QA) plan for the fuel flow meters. [40 CFR §60.4345(e)]

#### 2. PM<sub>10</sub>/PM<sub>2.5</sub>

##### a. Limitation or Restriction

- i. For each turbine, the Permittee shall not exceed the following emission limit when firing natural gas: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>
PM <sub>10</sub> /PM <sub>2.5</sub>	6.00

- ii. For each turbine, the Permittee shall not exceed the following emission limit when firing ULSD: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>
PM <sub>10</sub> /PM <sub>2.5</sub>	12.0

- iii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
PM <sub>10</sub> /PM <sub>2.5</sub>	9.9

##### b. Monitoring Requirements

Demonstration of compliance with the emission limits shall be met by calculating the emission rate using emission factors from stack test data. [Permit Nos. 117-0373, 117-0374 and 117-0375]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM<sub>10</sub>/PM<sub>2.5</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall total the emissions from all turbines in GEU-1. 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. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit Nos. 117-0373, 117-0374 and 117-0375]

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iii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]

- (A) The date and time of the exceedance;
- (B) A detailed description of the exceedance; and
- (D) The duration of the exceedance.

#### 3. SO<sub>2</sub>

##### a. Limitation or Restriction

i. For each turbine, the Permittee shall not exceed the following emission limit when firing natural gas: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>
SO <sub>2</sub>	0.95

ii. For each turbine, the Permittee shall not exceed the following emission limit when firing ULSD: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>
SO <sub>2</sub>	0.72

iii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
SO <sub>2</sub>	1.6

iv. The Permittee shall not burn in the subject stationary combustion turbines any fuel which contains total potential sulfur emissions in excess of 26 ng SO<sub>2</sub>/J (nanograms per Joule) (0.060 lb SO<sub>2</sub>/MMBtu) heat input. If the turbines simultaneously fire multiple fuels, each fuel shall meet this requirement. [40 CFR §60.4330(a)(2)]

##### b. Monitoring Requirements

i. The Permittee shall maintain certifications from the fuel supplier specifying that the maximum sulfur content of ULSD is 0.0015% and the total sulfur content for natural gas is 20 grains of sulfur or less per 100 standard cubic feet. [Permit Nos. 117-0373, 117-0374, 117-0375 and 40 CFR §60.4365(a)]

ii. Demonstration of compliance with the emission limits shall be met by calculating the emission rate using emission factors from manufacturer's data. [Permit Nos. 117-0373, 117-0374 and 117-0375]

iii. The Permittee shall immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit's storage tank) if the sulfur content of a delivery exceeds 0.05 weight percent. The Permittee shall continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and the Permittee shall evaluate excess emissions according to 40 CFR §60.4385(a). When all of the fuel from the delivery has been

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burned, the Permittee may resume using the as-delivered sampling option. [40 CFR §60.4385(b)]

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month SO<sub>2</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall total the emissions from all turbines in GEU-1. 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. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall make and keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel. The shipping receipt or contract shall include: [Permit Nos. 117-0373, 117-0374, 117-0375]
  - (A) Date of delivery;
  - (B) Name of the fuel supplier;
  - (C) Type of fuel oil delivered;
  - (E) Percentage of sulfur in such fuel, by weight, dry basis; and
  - (F) The method used to determine the sulfur content of such fuel oil.
- iv. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.

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

##### a. Limitation or Restriction

- i. For each turbine, the Permittee shall not exceed the following emission limits when firing natural gas: [Permit Nos. 117-0373, 117-0374, 117-0375 and 40 CFR §60.4320(a)]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
NO <sub>x</sub>	4.38	2.5

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- ii. For each turbine, the Permittee shall not exceed the following emission limits when firing ULSD: [Permit Nos. 117-0373, 117-0374, 117-0375 and 40 CFR §60.4320(a)]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
NO <sub>x</sub>	7.47	5.0

- iii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
NO <sub>x</sub>	11.5

*b. Monitoring Requirements*

- i. The Permittee shall install, calibrate, certify, maintain and operate a CEMS consisting of NO<sub>x</sub> and oxygen monitors to determine the hourly NO<sub>x</sub> emission rates parts per million volume dry (ppmvd). [Permit Nos. 117-0373, 117-0374, 117-0375 and 40 CFR §60.4335(b)(1)]
- ii. Demonstration of compliance with the emission limits shall be met by calculating the emission rate using CEMS data. [Permit Nos. 117-0373, 117-0374 and 117-0375]

*c. Record Keeping Requirements*

- i. The Permittee shall develop and keep on-site a QA plan for the NO<sub>x</sub> CEMS. [40 CFR §60.4345(e)]
- ii. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and ppmvd emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall calculate and record the monthly and consecutive 12 month NO<sub>x</sub> emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall total the emissions from all turbines in GEU-1. 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. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iv. The Permittee shall make and keep records sufficient to demonstrate that GEU-1 complies with all applicable requirements of RCSA §22a-174-22c and the standard requirements of the CAIR permit application. [RCSA §22a-174-33(j)(1)(K)(ii)]
- v. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
- (A) The date and time of the exceedance;
- (B) A detailed description of the exceedance; and
- (C) The duration of the exceedance.

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#### d. Reporting Requirements

The Permittee shall submit reports of excess emissions and monitoring downtime, in accordance with 40 CFR §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. Excess emissions and monitor downtime are defined in 40 CFR §60.4380. [40 CFR §60.4375(a)]

## 5. VOC

#### a. Limitation or Restriction

- i. For each turbine, the Permittee shall not exceed the following emission limits when firing natural gas: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
VOC	1.11	2.0

- ii. For each turbine, the Permittee shall not exceed the following emission limits when firing ULSD: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
VOC	0.79	1.3

- iii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
VOC	2.1

#### b. Monitoring Requirements

Demonstration of compliance with the emission limits shall be met by calculating the emission rate using emission factors from manufacturer's data. [Permit Nos. 117-0373, 117-0374 and 117-0375]

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and ppmvd emission limits for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month VOC emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall total the emissions from all turbines in GEU-1. 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. Emissions during startup and shutdown shall be counted towards the annual emission limitation. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]

(A) The date and time of the exceedance;



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- (B) A detailed description of the exceedance; and
- (C) The duration of the exceedance.

#### 6. CO

##### a. Limitation or Restriction

- i. For each turbine, the Permittee shall not exceed the following emission limits when firing natural gas: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
CO	5.12	5.0

- ii. For each turbine, the Permittee shall not exceed the following emission limits when firing ULSD: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O<sub>2</sub></u>
CO	1.00	0.93

- iii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
CO	12.7

##### b. Monitoring Requirements

- i. The Permittee shall continuously monitor the oxidation catalyst inlet temperature (°F). The Permittee shall maintain a 4-hour rolling average of the catalyst inlet temperature within the range recommended by the manufacturer to achieve compliance with the emission limits. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- ii. The Permittee shall install, calibrate, certify, maintain and operate a CEMS consisting of CO and oxygen monitors to determine the hourly CO emission rates. When firing ULSD, to account for relative accuracy and calibration drift of the CO CEMS, a maximum error of 1.0 ppm is allowed. Therefore, any CO emissions measurement obtained from the CEMS that is less than or equal to 1.93 ppm (and equivalent lb/hr conversion) shall be considered in compliance with the applicable CO emission limits of this permit. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. Demonstration of compliance with the emission limits shall be met by calculating the emission rate using CEMS and stack test data. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iv. The Permittee shall perform recurrent stack test for ULSD firing only, once every five years from the date of the previous test to demonstrate compliance with the emission limits. [Permit Nos. 117-0373, 117-0374 and 117-0375]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and ppmvd emission limits for each fuel. [RCSA §22a-174-33(j)(1)(K)(ii)]

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- ii. The Permittee shall calculate and record the monthly and consecutive 12 month CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall total the emissions from all turbines in GEU-1. 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. Emissions during startup and shutdown shall be counted towards the annual emission limitation.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall continuously record the oxidation catalyst inlet temperature (°F). The Permittee shall maintain a 4-hour rolling average of the catalyst inlet temperature within the range recommended by the manufacturer to achieve compliance with the emission limits.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]
- iv. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.

#### d. Reporting Requirements

The Permittee shall submit stack test results no later than 60 days after completion of testing.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

## 7. Pb

#### a. Limitation or Restriction

- i. For each turbine, the Permittee shall not exceed the following emission limit when firing ULSD:  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/hr</u>
Pb	0.01

- ii. For the three turbines combined, the Permittee shall not exceed the following emission limit when firing natural gas and ULSD combined: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>Tons per 12 consecutive months</u>
Pb	0.005

#### b. Monitoring Requirements

Demonstration of compliance with the emission limit shall be met by calculating the emission rate using emission factors from the latest version of AP-42. [Permit Nos. 117-0373, 117-0374 and 117-0375]

### Section III: Applicable Requirements and Compliance Demonstration

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the lb/hr and tons per 12 consecutive month emission limits. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.

### 8. Ammonia

#### a. Limitation or Restriction

The Permittee shall not exceed the following emission limit:  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>ppmvd@15%O<sub>2</sub></u>
Ammonia	5.0

#### b. Monitoring Requirements

- i. The Permittee shall continuously monitor and continuously record the SCR aqueous ammonia injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]
- ii. Demonstration of compliance with the emission limit shall be met by calculating the emission rate using emission factors from stack test data. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall perform recurrent stack test, once every five years from the date of the previous test to demonstrate compliance with the emission limit.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the ppmvd emission limit for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall make and keep records of each delivery of aqueous ammonia. The records shall include the date of delivery, the name of the supplier, the quantity of aqueous ammonia delivered, and the percentage of ammonia in solution, by weight.  
[Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]

### Section III: Applicable Requirements and Compliance Demonstration

- (A) The date and time of the exceedance;
- (B) A detailed description of the exceedance; and
- (C) The duration of the exceedance.

#### d. Reporting Requirements

The Permittee shall submit stack test results no later than 60 days after completion of testing. [Permit Nos. 117-0373, 117-0374 and 117-0375]

### 9. Formaldehyde

#### a. Limitation or Restriction

The Permittee shall not exceed the following emission limit. [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>ppmvd@15%O<sub>2</sub></u>
Formaldehyde	0.091

#### b. Monitoring Requirements

Demonstration of compliance with the emission limit shall be met by calculating the emission rate using emission factors from stack test data. [Permit Nos. 117-0373, 117-0374 and 117-0375]

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to demonstrate compliance with the ppmvd emission limit for each fuel. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.

### 10. Startup and Shutdown Events (< 50% Load) or Malfunction

#### a. Limitation or Restriction

- i. For each startup event while firing natural gas, the Permittee shall not exceed the following emission limits: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/event</u>
NO <sub>x</sub>	8.20

### Section III: Applicable Requirements and Compliance Demonstration

CO	18.4
VOC	1.60

- ii. For each shutdown event while firing natural gas, the Permittee shall not exceed the following emission limits: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/event</u>
NO <sub>x</sub>	3.30
CO	9.00
VOC	0.40

- iii. For each startup event while firing ULSD, the Permittee shall not exceed the following emission limits: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/event</u>
NO <sub>x</sub>	17.7
CO	5.10
VOC	1.50

- iv. For each shutdown event while firing ULSD, the Permittee shall not exceed the following emission limits: [Permit Nos. 117-0373, 117-0374 and 117-0375]

<u>Pollutant</u>	<u>lb/event</u>
NO <sub>x</sub>	8.90
CO	6.80
VOC	0.30

- v. The Permittee shall not exceed the duration of 30 minutes for a startup event when firing natural gas or ULSD. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- vi. The Permittee shall not exceed the duration of 10 minutes for a shutdown event when firing natural gas or ULSD. [Permit Nos. 117-0373, 117-0374 and 117-0375]

#### *b. Monitoring Requirements*

- i. Demonstration of compliance with the emission limits shall be met by calculating the emission rate using emission factors from manufacturer's data. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- ii. The Permittee shall minimize emissions during periods of startup and shutdown by starting the ammonia injection as soon as minimum catalyst temperature is reached. Emissions during these periods shall be counted towards the annual emission limits. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- (A) Startup is the period of time from initiation of combustion firing until the combustion turbine reaches steady state (>50% load) operation or until the control equipment attains its normal operating temperature and steady state operation.
- (B) Shutdown is the period of time from the initiation of cessation of the combustion process in the combustion turbine until the point at which the combustion process has stopped.

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

- iii. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within 60 minutes, the Permittee shall immediately institute shutdown of the turbines. [Permit Nos. 117-0373, 117-0374 and 117-0375]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbines; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. Such records shall contain the following information:  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

- (A) Type of event (startup, shutdown, or malfunction);

- (B) Equipment affected;

- (C) Date of event;

- (D) Duration of event (minutes); and

- (E) Fuel being used during event.

- ii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]

- (A) The date and time of the exceedance;

- (B) A detailed description of the exceedance; and

- (C) The duration of the exceedance.

#### *d. Reporting Requirements*

- i. The Permittee shall notify the commissioner in writing of any malfunction of the stationary gas turbines, the air pollution control equipment or the continuous monitoring system that causes an exceedance of any of the limits in this permit. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following:  
[Permit Nos. 117-0373, 117-0374 and 117-0375]

- (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and

- (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.

## **11. Opacity**

### *a. Limitation or Restriction*

Opacity shall not exceed 10% during any 6 minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9.

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[Permit Nos. 117-0373, 117-0374, 117-0375 and RCSA §22a-174-18(b)]

#### *b. Record Keeping Requirements*

- i. The Permittee shall make and keep records of the dates, times, and places of visible emissions observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall make and keep records of all exceedances of any operating parameter. Such records shall include: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.

## **12. Operation and Maintenance**

#### *a. Limitation or Restriction*

- i. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications or good engineering practices. The Permittee shall operate and maintain these stationary combustion turbines, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [Permit Nos. 117-0373, 117-0374, 117-0375, and 40 CFR §60.4333(a)]
- ii. The Permittee shall perform inspections of the SCR as recommended by the manufacturer or good engineering practices. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall perform inspections of the oxidation catalyst as recommended by the manufacturer or good engineering practices. [Permit Nos. 117-0373, 117-0374 and 117-0375]

#### *b. Record Keeping Requirements*

- i. The Permittee shall keep records of the inspection and maintenance of the SCR. The records shall include the name of the inspector, the date, the results or actions and the date the catalyst is replaced. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- ii. The Permittee shall keep records of the inspection and maintenance of the oxidation catalyst. The records shall include the name of the inspector, the date, the results or actions and the date the catalyst is replaced. [Permit Nos. 117-0373, 117-0374 and 117-0375]
- iii. The Permittee shall keep records when the turbines are changed for routine maintenance to include the following: [Permit Nos. 117-0373, 117-0374 and 117-0375]
  - (A) The date the turbine was changed;
  - (B) The reason for the change;

### Section III: Applicable Requirements and Compliance Demonstration

- (C) Documentation that the replacement turbine is the same make and model number; and
- (D) Documentation that the replacement turbine does not result in an increase in any air pollutant emissions.

#### F. EU-33 (Cummins QSK50-G4-NR2 Black Start Generator)

**NSPS Designation: Emergency, Construction/Ordered Date: 1/10/11, Model Year of Engine: 2007, Displacement: < 30 L/cylinder, Maximum Rating: 2,220 Bhp or > 560 kW**

##### 1. Maximum Hours of Operation

###### a. Limitation or Restriction

- i. The Permittee shall not allow the operation of the emergency engine to exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee shall operate the emergency stationary ICE according to the requirements in 40 CFR §§60.4211(f)(2)(i) through (iii). In order for the engine to be considered an emergency stationary ICE under 40 CFR Part 60 Subpart IIII, any operation other than emergency operation and maintenance and testing as described in 40 CFR §§60.4211(f)(2)(i) through (iii), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR §§60.4211(f)(2)(i) through (iii), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart IIII and will need to meet all requirements for non-emergency engines. [40 CFR §60.4211(f)]
- iii. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in 40 CFR §§60.4211(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. [40 CFR §60.4211(f)(2)]
- iv. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [40 CFR §60.4211(f)(2)(i)]

###### b. Monitoring Requirements

The Permittee shall install a non-resettable hour meter prior to startup of the engine. [40 CFR §60.4209(a)]

###### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the information necessary for the commissioner to determine compliance with the requirements of RCSA §22a-174-3b(e)(2). Information sufficient to make such determinations may include the information specified in RCSA §22a-174-3b(e)(4). All records made to determine compliance with the requirements of RCSA §22a-174-3b(e)(3) shall be: [RCSA §22a-174-3b(e)(3)]

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



### Section III: Applicable Requirements and Compliance Demonstration

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

- ii. The Permittee of an emergency engine shall make and keep records of the hours of operation for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

#### 2. Fuel Sulfur Content

##### a. Limitation or Restriction

- i. Any nongaseous fuel consumed by the engine shall not exceed the sulfur content of “motor vehicle diesel fuel” as defined in RCSA §22a-174-42(a). [RCSA §22a-174-3b(e)(2)(D)]
- ii. The Permittee shall purchase diesel fuel that meets the requirements of 40 CFR §80.510(b) for nonroad diesel fuel. [40 CFR §60.4207(b)]

##### b. Monitoring Requirements

Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [RCSA §22a-174-33(j)(l)(K)(ii)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the information necessary for the commissioner to determine compliance with the requirements of RCSA §22a-174-3b(e)(2). Information sufficient to make such determinations may include the information specified in RCSA §22a-174-3b(e)(4). All records made to determine compliance with the requirements of RCSA §22a-174-3b(e)(3) shall be:
  - (A) Made available to the commissioner to inspect and copy upon request; and
  - (B) Maintained for five years from the date such record is created.
- ii. The Permittee shall make and keep records of: a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider or a sales receipt for the sale of motor vehicle diesel fuel from a retail location or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

#### 3. NMHC + NO<sub>x</sub>

##### a. Limitation or Restriction

The Permittee shall not exceed the following emission limit: 6.4 g/kW-hr [40 CFR §60.4202(a)(2), 40 CFR §60.4205(b), and 40 CFR §89.112(a), Table 1]

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

*b. Monitoring Requirements*

The Permittee shall demonstrate compliance with the NMHC + NO<sub>x</sub> emission limit using manufacturer's emission data. [40 CFR §60.4202(a)]

*c. Record Keeping Requirements*

The Permittee shall make and keep records sufficient to demonstrate compliance with the emission limit. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### **4. CO**

*a. Limitation or Restriction*

The Permittee shall not exceed the following emission limit: 3.5 g/kW-hr  
[40 CFR §60.4202(a)(2), 40 CFR §60.4205(b), and 40 CFR §89.112(a), Table 1]

*b. Monitoring Requirements*

The Permittee shall demonstrate compliance with the CO emission limit using manufacturer's emission data. [40 CFR §60.4202(a)]

*c. Record Keeping Requirements*

The Permittee shall make and keep records sufficient to demonstrate compliance with the emission limit. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### **5. PM**

*a. Limitation or Restriction*

i. The Permittee shall not exceed the following emission limit: 0.10 lb/MMBtu  
[RCSA §22a-174-18(e)(3)(B)]

ii. The Permittee shall not exceed the following emission limit: 0.20 g/kW-hr  
[40 CFR §60.4202(a)(2), 40 CFR §60.4205(b), and 40 CFR §89.112(a), Table 1]

*b. Monitoring Requirements*

The Permittee shall demonstrate compliance with the emission limits by operating the engine in accordance with manufacturer's instructions and calculating the lb/MMBtu rate using appropriate emission factors. [RCSA §22a-174-33(j)(1)(K)]

*c. Record Keeping Requirements*

The Permittee shall make and keep records of engine maintenance to verify that the engine is being properly maintained. [RCSA §22a-174-3b(e)(3)]

### Section III: Applicable Requirements and Compliance Demonstration

#### 6. Opacity

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

- i. The Permittee shall not exceed the following visible emissions limits:  
[RCSA §§22a-174-18(b)(1)(A) and (B)]
  - (A) Twenty percent (20%) opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9; or
  - (B) Forty percent (40%) opacity as measured by 40 CFR Part 60, Appendix A, Reference Method 9, reduced to a one-minute block average.

##### *b. Record Keeping Requirements*

The Permittee shall make and keep records of the dates, times, and places of visible emissions observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### 7. Operation and Maintenance

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

- i. The Permittee shall: [RCSA §22a-174-3b(e)(1) and 40 CFR §60.4211(a)]
  - (A) Operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions;
  - (B) Change only those emission-related settings that are permitted by the manufacturer; and
  - (C) Meet the applicable requirements of 40 CFR Parts 89, 94 and/or 1068.
- ii. The Permittee shall comply with the applicable General Provisions requirements according to 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218 and 40 CFR Part 60 Subpart III, Table 8]

##### *b. Monitoring Requirements*

- i. The Permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR §§60.4204 and 60.4205 over the entire life of the engine. [40 CFR §60.4206]
- ii. If the Permittee does not install, configure, operate, and maintain the engine according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows: [40 CFR §60.4211(g)(3) and 40 CFR §60.4212]
- iii. The Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions,

### Section III: Applicable Requirements and Compliance Demonstration

or within one year after the Permittee changes emission-related settings in a way that is not permitted by the manufacturer. The Permittee shall conduct subsequent performance testing every 8,760 hours of engine operation or three years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

*c. Record Keeping Requirements*

- i. The Permittee shall make and keep manufacturer’s emission-related written instructions. [RCSA 22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep records sufficient to show compliance with applicable General Provisions requirements of 40 CFR Part 60 Subpart IIII, Table 8. [RCSA §22a-174-33(j)(1)(K)(ii)]

### G. FEDERAL ACID RAIN PERMIT REQUIREMENTS

#### Federal Acid Rain Permit Requirements

#### 1. SO<sub>2</sub> Allowance Allocations and NO<sub>x</sub> Requirements for Each Affected Unit

*a. EU-1 (Main Steam Generator)*

		2015	2016	2017	2018	2019
<b>EU-1 (Unit: NHB1)</b>	<b>SO<sub>2</sub> Allowances under Table 2, 3 or 4 of 40 CFR Part 73</b>	<b>13,092</b>	<b>13,092</b>	<b>13,092</b>	<b>13,092</b>	<b>13,092</b>
		<b>Not an Affected Unit under 40 CFR Part 76</b>				

*b. GEU-1 (3 Combustion Turbines)*

		2015	2016	2017	2018	2019
<b>GEU-1 (Units: NHHS2, NHHS3 and NHHS4)</b>	<b>SO<sub>2</sub> Allowances under Table 2, 3 or 4 of 40 CFR Part 73</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Not an Affected Unit under 40 CFR Part 76</b>				

#### 2. Phase II Acid Rain Permit Application

The attached Phase II Acid Rain Permit Application is hereby incorporated by reference into this Title V permit. If this Title V permit is in conflict with or inconsistent with the Phase II Acid Rain Permit Application, the Title V permit requirements, including any applicable requirement under 40 CFR Parts 72 through 78, inclusive, shall supersede the Phase II Acid Rain Permit Application and the Permittee shall be governed by and adhere to this Title V permit and any applicable requirement under 40 CFR Parts 72 through 78, inclusive.

## Section III: Applicable Requirements and Compliance Demonstration

### Federal Acid Rain Permit Requirements

#### H. PREMISES-WIDE GENERAL REQUIREMENTS

##### Premises-Wide General Requirements

- 1. Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
- 2. Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- 3. Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
- 4. Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
- 5. Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
- 6. Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
- 7. Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
- 8. 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.
- 9. No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
- 10. Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
- 11. Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
- 12. Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
- 13. Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
- 14. Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
- 15. Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.

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

- 16. Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
- 17. Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
- 18. Asbestos NESHAP:** The Permittee shall comply with the Asbestos NESHAP requirements as set forth in 40 CFR Part 61 Subpart M.

**Section IV: Compliance Schedule**

<b>TABLE IV: COMPLIANCE SCHEDULE</b>				
<b>Emissions Unit</b>	<b>Applicable Regulations</b>	<b>Steps Required for Achieving Compliance (Milestones)</b>	<b>Date by which Each Step is to be Completed</b>	<b>Dates for Monitoring, Record Keeping, and Reporting</b>
EU-2	40 CFR Part 63 Subpart DDDDD [40 CFR §63.7495(b)]	See specific requirements in Section III.B of this Title V permit	Compliance Date is 1/31/16	Compliance Date is 1/31/16

## Section V: State Enforceable Terms and Conditions

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

### State Enforceable Terms and Conditions

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



## **Section V: State Enforceable Terms and Conditions**

### **State Enforceable Terms and Conditions**

- G.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- H.** Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- I.** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
- J.** The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

## Section VI: Title V Requirements

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

### Title V Requirements

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

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

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

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA Region 1; 5 Post Office Square, Suite 100; Mail Code OEP05-02; Boston, Massachusetts 02109-3912.

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

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

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

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

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

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

## Section VI: Title V Requirements

### Title V Requirements

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

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

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

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

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

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

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

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

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

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;

## Section VI: Title V Requirements

### Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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### Title V Requirements

#### **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

## Section VI: Title V Requirements

### Title V Requirements

parties to this Title V permit.

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

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

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

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

1. Constitute a modification under 40 CFR Part 60, 61 or 63;
2. Exceed emissions allowable under the subject permit;
3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

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

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

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

#### **V. TRANSFERS** [RCSA §22a-174-2a(g)]

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

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

#### **W. REVOCATION** [RCSA §22a-174-2a(h)]

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

## **Section VI: Title V Requirements**

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.