



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>	070-0192-TV
<b>Client/Sequence/Town/Premises Numbers</b>	89-001-070-0004
<b>Date Issued</b>	April 24, 2014
<b>Expiration Date</b>	April 24, 2019

**Corporation:**

*Pfizer, Inc.*

**Premises Location:**

*445 Eastern Point Road, Groton, Connecticut 06340-5157*

**Name of Responsible Official and Title:**

*Michel Lallier, Site Director, GO CT Site Lead*

All the following attached pages, 2 through 66, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for  
 Robert J. Klee  
 Commissioner

April 24, 2014  
 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>
BDERC	Budget Emission Reduction Credit
bhp	Brake Horsepower
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
DERC	Discrete Emission Reduction Credit
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Units
HAP	Hazardous Air Pollutant
lb/ton	Pounds per ton
lb/MMBTU	Pounds per Million British Thermal Units
MMBTU	Million British Thermal Units
MMBTU/hr	Million British Thermal Units per hour
MMSCF	Million Standard Cubic Feet
MRC	Maximum Rated Capacity
MSDS	Material Safety Data Sheet
MW	Megawatts
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O <sub>2</sub>	Oxygen
P	Permit
PM	Particulate Matter
ppmvd	Parts per million, volumetric basis dry
PTE	Potential to Emit
Pb	Lead
PM <sub>10</sub>	Particulate Matter less than 10 microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
R	Registration
R&D	Research and Development
RCSA	Regulations of Connecticut State Agencies
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide

## LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
SO <sub>x</sub>	Sulfur Oxides
SOS	Standard Operating Scenario
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
ULSD	Ultra-Low Sulfur Diesel
VOC	Volatile Organic Compound

## Section I: Premises Information/Description

### A. PREMISES INFORMATION

Nature of Business: Pharmaceutical Research & Development  
Primary SIC: 8731  
Other SIC:

Facility Mailing Address: Pfizer, Inc., 445 Eastern Point Road, MS-9090--019, Groton, CT 06340-5157  
Telephone Number: (860) 441-4100

### B. PREMISES DESCRIPTION

Pfizer, Inc. conducts research and development (R&D) operations at its Groton facility. The facility is a major source for CO, and NO<sub>x</sub> and is in the “Serious non-attainment area for ozone” defined in 22a-174-1(103). Pfizer’s significant air emission units are on-site utilities (i.e., steam and electrical power generation) and emergency power generation equipment.

#### Powerhouse

Three Combustion Engineering boilers (EU-1, 2, and 3), located in Building 101 and make up Grouped Emission Unit 6 (GEU-6), produce superheated, high pressure steam that is used to generate electricity and heat buildings throughout the facility. The three boilers are registered (R 070-0007, 8, 9). All three boilers can fire natural gas and are equipped with low-NO<sub>x</sub> burners. Boilers 1 through 3 can also fire ULSD using low-NO<sub>x</sub> burners. All three boilers are equipped with NO<sub>x</sub> and Oxygen CEM, and are included in Trading Agreement and Order No. 8318 for NO<sub>x</sub> emission trading.

A Solar Mars 100S Turbine 10.5MW Combined Cycle Cogeneration System (EU-40) supplies electrical power and steam for the facility. The unit is designed to burn natural gas and ULSD fuel oil. The unit was issued the permit to construct and operate 070-0268 on 7/16/2008. NO<sub>x</sub> emissions are controlled by selective catalytic reduction (SCR). CO and VOC emissions are controlled by an oxidation catalyst. The turbine is subject to the New Source Review Standard (NSPS) – Standards for Stationary Combustion Turbines (40 CFR Part 60 Subpart KKKK).

#### Other Boilers

A Hurst 400 Scotch Boiler (EU-28), located in Building 295, provides supplemental steam for the R&D operations. Due to its size it does not require a permit. The boiler is subject to the NSPS for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc).

#### Emergency Engines

Pfizer’s Groton facility was formerly a major source of HAPs but shut down its pharmaceutical manufacturing operations and officially revoked the NSR permits for its manufacturing equipment on June 19, 2008, at which time the site became an area source of HAPs. For the purposes of EPA’s NESHAP for Stationary Reciprocating Internal Combustion Engines under 40 CFR Part 63 Subpart ZZZZ, the engines at Pfizer which had an initial compliance date on or before June 19, 2008 are subject to the major source requirements of the rule, and the engines having an initial compliance date after June 19, 2008 are subject to the area source requirements of the rule.

In addition to the 40 CFR 63 Subpart ZZZZ, Pfizer’s emergency engines can be subject to a variety of combinations of applicable state and federal regulatory requirements, depending upon the installation date, fuel type, power rating, and potential emissions of each engine. Emergency engines subject to identical sets of applicable regulatory requirements have been combined into common grouped emissions units (GEU’s) as described below.

## Section I: Premises Information/Description

### GEU-1:

Emergency engines subject to 40 CFR 63 Subpart ZZZZ requirements for existing compression engines rated less than or equal to 500 bhp located a major source of HAPs. GEU-1 is comprised of the following units:

- EU-7: B101 EG 12 Caterpillar D50P1
- EU-8: B90 EG 1 Generac 96A03728S
- EU-11: B114A EG 4 Generac 94A02822S
- EU-20: B296-1 EG Onan 60 DCGB
- EU-24: B274-2 Caterpillar SR4
- EU-48: B58 PGM Emergency Fire Pump
- EU-49: B60 Fire Department Generator

### GEU-2:

Emergency engines subject to RCSA §22a-174-3b; §22a-174-22; and 40 CFR 63 Subpart ZZZZ requirements for existing compression ignition engines rated greater than 500 bhp located at a major source of HAPs. GEU-2 is comprised of the following units:

- EU-21: B156A-1 EG Kohler 600 ROZD
- EU-36: B230 EG Caterpillar 3516B

### GEU-3:

Emergency engines subject to 40 CFR 63 Subpart ZZZZ requirements for new compression ignition engines located at an area source of HAPs and NSPS for compression ignition internal combustion engines under 40 CFR Part 60, Subpart IIII. GEU-3 is comprised of the following units:

- EU-51: B195 Fire Pump Engine
- EU-53: B156A-2 100 kW EG

### GEU-4:

Emergency engines subject to RCSA §22a-174-3b; §22a-174-22; and 40 CFR 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated greater than 500 bhp located at a major source of HAPs. GEU-4 is comprised of the following units:

- EU-30: B257 EG Caterpillar G3412 SITA
- EU-35: B220 EG Cummins/Onan GTA/GS

### GEU-5:

Emergency engines subject to RCSA §22a-174-3b and 40 CFR 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated less than or equal to 500 bhp located at a major source of HAPs. GEU-5 is comprised of the following units:

- EU-31: B260 EG Onan/Cummins 80 ENAD
- EU-32: B295 EG Kohler 135 RZ



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

### **Ungrouped Engines:**

The following engines are subject to unique combinations of applicable regulatory requirements and did not otherwise fall under one of the GEU's listed above:

- EU-33: B185 EG Kohler 30RZ – subject to 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated less than or equal to 500 bhp located at a major source of HAPs
- EU-34: EQ Basin EG Onan 150 DGFA – subject to RCOSA §22a-174-3b and 40 CFR Part 63 Subpart ZZZZ requirements for existing compression ignition engines located at a major source of HAPs
- EU-38: B274S-3 EG Caterpillar 3406C-DITA – subject to RCOSA §22a-174-3b; §22a-174-22; and 40 CFR Part 63 Subpart ZZZZ requirements for new compression ignition engines rated greater than 500 bhp located at a major source of HAPs

## Section II: Emissions Units Information

### A. EMISSIONS UNITS DESCRIPTION

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

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>					
<b>Emissions Unit/ Grouped Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Maximum Rated Capacity</b>	<b>Year Installed</b>	<b>Control Unit Description</b>	<b>Permit, Order, Registration, or Regulation Number</b>
GEU-6	EU-1: CE Boiler 1 EU-2: CE Boiler 2 EU-3: CE Boiler 3	153.2 MMBtu/hr 153.2 MMBtu/hr 153.2 MMBtu/hr	1948 1948 1952	Low NOx burner Low NOx burner Low NOx burner	R 070-007 R 070-008 R 070-009, TA&O No. 8318
EU-28	Hurst 400 Scotch Boiler	25.2 MMBtu/hr	1995	Low NOx burner	None
EU-40	Solar Mars 100S Turbine 10.5MW Combined Cycle Cogeneration with Heat Recovery Steam Generator	10.5 MW	2008	SCR Oxidation catalyst Low NOx Duct Burner	P 070-0268
GEU-1	EU-7: B101 EG 12 Caterpillar D50P1 EU-8: B90 EG 1 Generac 96A03728S EU-11: B114A EG 4 Generac 94A02822S EU-20: B296 EG Onan 60 DCGB EU-24: B274 Caterpillar SR4 EU-48: B58 PGM Emergency Fire Pump EU-49: B60 Fire Department Generator	0.662 MMBtu/hr 0.35 MMBtu/hr 0.35 MMBtu/hr 0.65 MMBtu/hr 2.49 MMBtu/hr 0.78 MMBtu/hr 0.15 MMBtu/hr	2000 1994 1994 1996 1985 1970 1995	None	40 CFR 63 Subpart ZZZZ
GEU-2	EU-21: B156A-1 EG Kohler 600 ROZD EU-36: B230 EG Caterpillar 3516B	6.57 MMBtu/hr 16.99 MMBtu/hr	1995 1999	None	RCSA §22a-174-3b(e)  RCSA §22a-174-22  40 CFR 63 Subpart ZZZZ
GEU-3	EU-51: B195 Fire Pump Engine EU-53: B156A 100 kW EG	0.87 MMBtu/hr 0.91 MMBtu/hr	2009 2012	None	40 CFR 63 Subpart ZZZZ  40 CFR 60 Subpart III
GEU-4	EU-30: B257 EG Caterpillar G3412 SITA EU-35: B220 EG Cummins/Onan GTA/GS	4.84 MMBtu/hr 6.1 MMBtu/hr	1996 1999	None	RCSA §22a-174-3b(e)  RCSA §22a-174-22  40 CFR 63 Subpart ZZZZ

## Section II: Emissions Units Information

<b>TABLE IIA: EMISSIONS UNITS DESCRIPTION</b>					
<b>Emissions Unit/ Grouped Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Maximum Rated Capacity</b>	<b>Year Installed</b>	<b>Control Unit Description</b>	<b>Permit, Order, Registration, or Regulation Number</b>
GEU-5	EU-31: B260 EG Onan/Cummins 80 ENAD EU-32: B295 EG Kohler 135 RZ	1.2 MMBtu/hr 1.8 MMBtu/hr	1996 1999	None	RCSA §22a-174-3b(e)  40 CFR 63 Subpart ZZZZ
EU-33	B185 EG Kohler 30RZ	0.55 MMBtu/hr	1991	None	40 CFR 63 Subpart ZZZZ
EU-34	EQ Basin EG Onan 150 DGFA	1.55 MMBtu/hr	1999	None	RCSA §22a-174-3b  40 CFR 63 Subpart ZZZZ
EU-38	B274S-3 EG Caterpillar 3406C-DITA	3.9 MMBtu/hr	2004	None	RCSA §22a-174-3b(e)  RCSA §22a-174-22  40 CFR 63 Subpart ZZZZ
GEU-8	EU-54: Building 101 Solvent Cold Cleaner #1 EU-55: Building 101 Solvent Cold Cleaner #2 EU-56: Building 101 Solvent Cold Cleaner #3	30 gallons	2008	None	RCSA §22a-174-20(l)
GEU-9	EU-57: Building 295 Solvent Cold Cleaner EU-58: Building 274 Solvent Cold Cleaner EU-59: Building 295 Solvent Cold Cleaner	30 gallons	2008	None	RCSA §22a-174-20(l)

## Section II: Emissions Units Information

### B. OPERATING SCENARIO IDENTIFICATION

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

<b>Emissions Units Associated with the Scenario</b>	<b>Description of Scenario</b>
GEU-6, EU-28, EU-40	The standard operation of the boilers and the cogeneration systems is to provide steam for building heat and electricity. Boilers EU-1, EU-2, and EU-3 included in GEU-6 and the Cogen system EU-40 fire natural gas or ULSD while Boiler EU-28 fires only natural gas.
GEU-8 and GEU-9	The standard operation of the cold cleaners is to clean parts for maintenance purposes using only non-halogenated solvents.
GEU-1, GEU-2, GEU-3, GEU-4, GEU-5, EU-33, EU-34, EU -38	The standard operation of the emergency engines is to provide emergency power for operations in the facility. The units included under GEU-1, GEU-2, and GEU-3 as well as EU-33, EU-34, and EU-38 fire fuel oil (ULSD) while the units included under GEU-4 and GEU-5 fire only natural gas.

### Section III: Applicable Requirements and Compliance Demonstration

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

#### A. GROUPED EMISSIONS UNIT 6 (GEU-6): Powerhouse Boilers: EU-1, 2 and 3

##### 1. Fuel Usage

###### a. Limitation or Restriction

There are no operating limitations on fuel usage of powerhouse boilers 1, 2, and 3. However, there are monitoring, recordkeeping and reporting requirements.

###### b. Monitoring Requirements

The Permittee shall monitor the fuel usage of powerhouse boilers 1, 2, and 3 using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

###### c. Record Keeping Requirements

i. The Permittee shall make and keep records of the monthly and consecutive 12 month natural gas and ULSD fuel oil usage of powerhouse boilers 1, 2, and 3. The consecutive 12 month fuel usage shall be calculated by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall record these figures monthly. [RCSA §22a-174-4(d)(1)]

ii. The Permittee shall record the actual fuel type and actual quantity of each type of fuel in units of volume per day or MMBtu per day of each fuel used in boilers 1, 2 and 3. [Trading Agreement and Order 8318, Paragraph B.13.a]

###### d. Reporting Requirements

The Permittee shall report the fuel usage of powerhouse boilers 1, 2, and 3 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

##### 2. Sulfur Content

###### a. Limitation or Restriction

The Permittee, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall not use or burn fuel which contains sulfur in excess of a maximum of 15 ppm by weight (dry basis) as stipulated in registrations R-070-007, R-070-008, and R-070-009 modified by DEEP letter addressed to Pfizer on November 1, 2012.

###### b. Monitoring Requirements

None.

###### c. Record Keeping Requirements

The Permittee shall make and keep records of the sulfur content of all liquid fuels burned in powerhouse boilers 1, 2, and 3. Records for a fuel certification or contract shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such

### Section III: Applicable Requirements and Compliance Demonstration

fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall report the sulfur content of the fuel oil burned in powerhouse boilers 1, 2, and 3 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### 3. Particulate Matter

*a. Limitation or Restriction*

The Permittee shall emit no more than 0.12 pounds of particulate matter per MMBTU of heat input when distillate oil is burned and 0.10 pounds of particulate matter per MMBTU of heat input when natural gas is burned in powerhouse boilers 1, 2, and 3 [RCSA §22a-174-18(e)(2)(B) & (C)]

*b. Monitoring Requirements*

None.

*c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for powerhouse boilers 1, 2, and 3 using emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall submit an annual compliance certification in accordance with RCSA §22a-174-33(q)(2).

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

*a. Limitation or Restriction*

- i. The Permittee may, in accordance with RCSA §22a-174-22(d)(1)(A), comply with the requirements of RCSA §22a-174-22 by meeting applicable emission limitations specified in Table 22-1 of RCSA §22a-174-22. [RCSA §22a-174-22(e)(1)] The NO<sub>x</sub> emission limitation is 0.20 lb/MMBTU, when firing other oil (USLD) and 0.20 lb/MMBTU, when firing natural gas. [RCSA §22a-174-22(e)(Table 22-1)]
- ii. The Permittee may comply with RCSA §22a-174-22 for powerhouse boilers 1, 2, and 3 through emission reduction trading. [Trading Agreement and Order 8318]

*b. Monitoring Requirements*

The Permittee shall monitor and record the actual 24-hour average NO<sub>x</sub> emission rates from each boiler using approved CEMS installed, calibrated and operated in accordance with the performance and quality assurance specifications contained in 40 CFR 60, Subpart A, Appendix B and Appendix F. [RCSA §22a-174-22(k)(3) and Trading Agreement and Order 8138, Paragraph B.13.a]

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep the following records:
  - A. Records of all tune-ups, repairs, replacement of parts and other maintenance;
  - B. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
  - C. All charts, electronically stored data, and printed records produced by such continuous emissions monitor;
  - D. Records of all performance evaluations, calibration checks and adjustments on such monitor; a record of maintenance procedures; and all data necessary to complete the quarterly reports required under RCSA §22a-174-22(1)(4); and
  - E. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22. [RCSA §22a-174-22(1)(1)(D), (E), (F), (I), & (J)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(1)(5)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit to the commissioner written quarterly reports of excess emissions and CEM malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30 and October 30 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 period, the magnitude and suspected cause of the excess emissions and all actions taken to correct the excess emissions. For each malfunction of the CEM system, such report shall include the date and time of when the malfunction commenced and ended, and all actions taken to correct the malfunction. [RCSA §22a-174-22(1)(4)]
- ii. On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NOx emissions for this emission unit in the annual emissions statement.

### **5. Trading Agreement and Order 8138**

#### *a. Limitation or Restriction*

- i. Pfizer may generate approved DERCs as required under Trading Agreement and Order 8138. [Trading Agreement and Order 8138, Paragraphs A. 6 & B.8]
- ii. Pfizer shall comply with RCSA §22a-174-22 through emission reduction trading until the date of expiration of Trading Agreement and Order 8318.[Trading Agreement and Order 8318, Paragraph A.7]

### Section III: Applicable Requirements and Compliance Demonstration

- A. Pfizer shall use approved DERCs and/or Allowances as required under Paragraphs B.7 and B.9 of Trading Agreement and Order 8318. [Trading Agreement and Order 8138 Section B.2]
- B. Pfizer shall have in its possession sufficient approved DERCs and/or Allowances to meet applicable NOx emission limits as required under Paragraphs B.7 and B.9 of Trading Agreement and Order 8318. [Trading Agreement and order 8318 Section B.2]

iii. DERC Generation:

- A. Pfizer shall calculate the amount of DERCs generated as follows:

Actual DERCs Generated =

$$\sum \left\{ (\text{Daily fuel use MMBtu}) \times \left( (\text{AEL}) - \text{actual 24hr average emission rate lb/MMBtu} \right) \right\} \div 2000 \text{ lbs/ton}$$

For all days in the month where actual 24-hr average emission rate < AEL

Where:

Daily fuel use and actual 24-hr average emission rate shall not include missing data calculated in accordance with any missing data substitution procedures, including those allowed under RCSA §22a-174-22c and 40 CFR Part 75. [Trading Agreement and Order 8318, Paragraph B.8]

- (1) Ten (10) percent of all DERCs (tons) generated by the boilers shall be retired by Pfizer and permanently removed from all calculations on a monthly basis to assure a benefit to the environment. [Trading Agreement and Order 8318, Paragraph B.9]

- iv. DERC Allowance-use: Until the expiration date of Trading Agreement and Order 8318 on the first day of each calendar month Pfizer shall possess a quantity of DERCs and/or Allowances that equals or exceeds the quantity of Actual DERCs Required and/or Actual Allowances Required for such month based on the following calculations: [Trading Agreement and Order 8318, Paragraph B.7]

- A. Before the first day of each month, Pfizer shall estimate DERCs and or Allowances required for such calendar month for the boilers as follows:

Estimated DERCs/Allowances Required =

$$\left\{ (\text{Estimated fuel use in MMBtu}) \times \left( (\text{estimated 24hr average emission rate lb/MMBtu}) - (0.95 \times \text{AEL}) \right) \right\} \div 2000 \text{ lbs/ton}$$

Where:

- AEL = Allowable Emission limit as, defined in Paragraph A.4 of Trading Agreement and Order 8318
- Discount (0.95) = 5% design margin applied to AEL

For all days in the month where actual 24-hr average emission rate > AEL

- B. No later than the twentieth day of each month, Pfizer shall calculate the actual DERCs and/or Allowances used in the preceding calendar month, as follows:



### Section III: Applicable Requirements and Compliance Demonstration

$$\text{Actual DERCS/Allowances Required} = \frac{\sum\{(\text{Daily fuel use in MMBtu}) \times ((\text{actual 24hr average emission rate lb/MMBtu}) - (0.95 \times \text{AEL}))\}}{2000 \text{ lbs/ton}}$$

For all days in the month where actual 24-hr average emission rate > AEL

#### *b. Monitoring and Testing Requirements*

The Permittee shall record the actual 24-hour average NOx emissions rate from each boiler using approved CEMS [Trading Agreement and Order 8138 Paragraph B.13.a]

#### *c. Record Keeping Requirements*

- i. By the close of each calendar day, Pfizer shall record the actual 24-hour average NOx emission rate from each boiler using approved CEMS and the actual fuel type and actual quantity of each type of fuel in units of volume per day or MMBtu per day for each fuel used on the preceding day. [Trading Agreement and Order 8318, Paragraph B.13.a]
- ii. On or before the first day of each calendar month, Pfizer shall record the number of DERCS and corresponding serial numbers and vintages for all DERCS in its possession on the first calendar day of that calendar month [Trading Agreement and Order 8318, Paragraph B.13.b]
- iii. On or before the first day of each calendar month, Pfizer shall record the number of Allowances and corresponding identification numbers and vintages for all Allowances in its possession on the first calendar day of that calendar month [Trading Agreement and Order 8318, Paragraph B.13.c]
- iv. On or before the first day of each calendar month, Pfizer shall record the number of DERCS and corresponding serial numbers, vintages, purchase/sales dates, and seller/buyer for all DERCS purchased or sold during the preceding calendar month [Trading Agreement and Order 8318, Paragraph B.13.d]
- v. On or before the first day of each calendar month, Pfizer shall record the number of Allowances and corresponding identification numbers, purchase/sales dates, allocation years, and seller/buyer for all Allowances purchased or sold during the preceding calendar month [Trading Agreement and Order 8318, Paragraph B.13.e]
- vi. On or before the first day of each calendar month, the Estimated DERCS/Allowances Required for that calendar month determined in accordance with Paragraph B.7 of Trading Agreement and Order 8318. [Trading Agreement and Order 8318, Paragraph B.13.f]
- vii. On or before the twentieth calendar day of each calendar month, Pfizer shall records the Actual DERCS/Allowances Required for the preceding calendar month determined in accordance with Paragraph B.7 of Trading Agreement and Order 8318. [Trading Agreement and Order 8318, Paragraph B.13.g]

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

- viii. On or before January 31 of each calendar year, Pfizer shall record the quantity of DERCS deducted in accordance with Paragraphs B.10 and B.11 of Trading Agreement and Order 8318. Such records shall include the serial number and vintage of each DERC deducted from Pfizer's current balance pursuant to Paragraphs B.10 and B.11 of Trading Agreement and Order 8318. [Trading Agreement and Order 8318, Paragraph B.13.h]
- ix. On or before January 31 of each calendar year, Pfizer shall records the quantity of Allowances transferred in accordance with Paragraphs B.10 and B.11 of Trading Agreement and Order 8318. Such records shall include the identification number and allocation year of each Allowance transferred pursuant to Paragraphs B.10 and B.11 of Trading Agreement and Order 8318. [Trading Agreement and Order 8318, Paragraph B.13.i]
- x. For each month of the Ozone season, Pfizer shall maintain records attesting to the fact that any DERCS deducted from its balance in accordance with Paragraphs B.10 and B.11 were created during an Ozone season. Generator certification of this fact shall be sufficient. [Trading Agreement and Order 8318, Paragraph B.13.j]
- xi. On each day during the ozone seasons that Pfizer operates in accordance with Paragraph B.6 of Trading Agreement and Order 8318, Pfizer shall make and keep records of boiler operation in accordance with Paragraph B.6 of Trading Agreement and Order 8318, including copies of any written correspondence from Pfizer's fuel supplier detailing the duration and circumstances of the inadequate fuel oil supply or interruption of gaseous fuel supply to the boilers. [Trading Agreement and Order 8318, Paragraph B.13.k]

#### *d. Reporting Requirements*

No later than March 1 of every year after issuance of Trading Agreement and Order 8318, Pfizer shall submit to the Commissioner a written report containing copies of all of the records required pursuant to Paragraph B.13 Trading Agreement and Order 8313 and Conditions III.A.5.c.i through xi of this permit. The Commissioner may prescribe the forms to be used for the submission of these reports. Pfizer shall submit these reports on such forms, if prescribed by the Commissioner. [Trading Agreement and Order 8313, Paragraph B.15]

### **6. Work Practices and Management Standards**

#### *a. Limitation or Restriction*

- i. The Permittee shall at all times operate and maintain the boilers, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that 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 Part 63.11205(a)]
- ii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart JJJJJ. [40 CFR Part 63.11235]

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

#### *b. Monitoring and Testing Requirements*

- i. The Permittee shall conduct a tune-up of each boiler biennially as specified in 40 CFR Part 63.11223 and Paragraph B.12 of Trading Agreement and Order 8318. [40 CFR Part 63 Subpart JJJJJ Table 2 (No. 4); Trading Agreement and Order 8318 Paragraph B.12]
- ii. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment shall meet the requirements specified in 40 CFR Part 63 Subpart JJJJJ Table 2. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements specified in Subpart JJJJJ, satisfies the energy assessment requirement. [40 CFR Part 63 Subpart JJJJJ Table 2 (No. 16)]
- iii. The Permittee shall demonstrate initial compliance with the aforementioned monitoring and testing requirements, no later than March 21, 2014 and according to the applicable provisions in 40 CFR Part 63.7(a)(2). [40 CFR Part 63.11210(c)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain onsite and submit, if requested by the Administrator, a boiler tune-up report containing the information specified in 40 CFR Part 63.11223(b)(6) or Paragraph B.12.b of Trading Agreement and Order 8318. [40 CFR Part 63.11223(b)(6); Trading Agreement and Order 8318]
- ii. The Permittee shall maintain all applicable records specified in 40 CFR Part 63.11225(c). These records must be in a form suitable and readily available for expeditious review, and in accordance with 40 CFR Part 63.10(b)(1). [40 CFR Part 63.11225(c) and (d)]
- iii. The Permittee shall keep each record for five years following the date of each recorded action. [40 CFR Part 63.11225(d)]

#### *d. Reporting Requirements*

- i. No later than July 19, 2014, the Permittee shall submit a signed certification in the Notification of Compliance Status report indicating that an energy assessment of each boiler and their energy use systems was completed, and submit, upon request, the energy assessment report.[40 CFR Part 63.11214(c)]
- ii. No later than July 19, 2014, the Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that a tune-up of each boiler has been conducted. [40 CFR Part 63.11214(b)]
- iii. The Permittee shall submit an Initial Notification no later than January 20, 2014. [40 CFR Part 63.11225(a)]
- iv. The Permittee must prepare, and submit to the delegate authority upon request, a biennial compliance report containing the information specified in 40 CFR §§63.11225(b)(1) through (4). If the Permittee had any deviations from the applicable requirements during the reporting period, the report must be submitted by March 15. [40 CFR Part 63.11225(b)]

## Section III: Applicable Requirements and Compliance Demonstration

### B. EMISSIONS UNIT 28: Hurst Boiler

#### 1. Fuel Usage

##### a. *Limitations and Restrictions*

There are no operating limitations on fuel usage of the Hurst 400 Scotch Boiler. However, there are monitoring, record keeping and reporting requirements.

##### b. *Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage for the Hurst 400 Scotch Boiler, using either a fuel meter or by multiplying the annual hours of operation by the maximum firing rate of the boiler. [RCSA §22a-174-33(j)(1)(K)(ii)]

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

The Permittee shall keep monthly records of the fuel usage for the Hurst 400 Scotch Boiler. [40 CFR §60.48c(g)(2)]

##### d. *Reporting Requirements*

The Permittee shall report annual fuel usage for the Hurst 400 Scotch Boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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

##### a. *Limitations and Restrictions*

The Permittee shall meet the nitrogen oxide emission limitation for the Hurst 400 Scotch Boiler of 0.20 lb/MMBTU when firing natural gas. [RCSA §22a-174-22(e)(Table 22-1)]

##### b. *Monitoring and Testing Requirements*

i. The Permittee shall conduct an emission test of the Hurst 400 Scotch Boiler to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. 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. 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. If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]

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

- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60, Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity for a fuel-burning source. Notwithstanding the foregoing requirements of this subdivision:
  - A. If the commissioner determines that operating at or above ninety percent (90%) of maximum capacity for a fuel burning source or a process source during sampling is not reasonable given the location, configuration or operating conditions of a source, the commissioner may approve testing of a fuel burning source or process source at an alternative maximum capacity where compliance with the emission limitations of this section shall be determined based on operating at or above ninety percent (90%) of the alternative maximum capacity approved by the commissioner; and
  - B. Any source that has operated in excess of one hundred percent (100%) of its rated maximum capacity at any time since May 31, 1995 shall be tested when the source is operating at or above ninety percent (90%) of its highest operating rate since May 31, 1995.  
[RCSA §22a-174-22(k)(2)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep the following records:
  - A. Records of all tune-ups, repairs, replacement of parts and other maintenance;
  - B. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
  - C. Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
  - D. The Permittee shall keep and maintain records of the unit's highest operating rate since May 31, 1995.
  - E. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.  
[RCSA §22a-174-22(l)(1)(D), (E), (H) & (J)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(l)(5)]

#### *d. Reporting Requirements*

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(l)(2)]

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- ii. On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NO<sub>x</sub> emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NO<sub>x</sub> emissions for this emission unit in the annual emissions statement.

#### **C. EMISSIONS UNIT 40: Solar Mars 100S Turbine and COEN duct burner**

##### **1. Fuel Usage**

###### *a. Limitations and Restrictions*

- i. The Solar Mars 100S turbine is limited to maximum fuel consumption over any consecutive 12 month period of 1,132 MMSCF of natural gas and 7,252,800 gallons of ULSD fuel oil. [P 070-0268 Part II.A.2]
- ii. The COEN duct burner is limited to maximum fuel consumption over any consecutive 12 month period of 824.5 MMSCF of natural gas. [P 070-0268 Part II.A.5]

###### *b. Monitoring and Testing Requirements*

The Permittee shall use individual non-resettable totalizing fuel metering devices to continuously monitor the natural gas and ULSD fuel oil feed to the turbine and the natural gas feed to the duct burner. [P 070-0268 Part III.A.1]

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

The Permittee shall keep records of monthly and consecutive 12 month fuel consumption of the Solar Mars 100S Turbine and COEN duct burner. 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. Turbine and duct burner fuel consumption records shall be kept independently. [P 070-0268 Part III.B.1]

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

The Permittee shall report annual fuel usage of the Solar Mars 100S Turbine and COEN duct burner in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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

###### *a. Limitations and Restrictions*

The ULSD fuel oil Sulfur content (% by weight, dry basis) for the Solar Mars 100S Turbine is limited to 0.0015%. [P 070-0268 Part II.A.3]

###### *b. Monitoring and Testing Requirements*

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

### Section III: Applicable Requirements and Compliance Demonstration

c. *Record Keeping Requirements*

The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 070-0268 Part III.B.2]

d. *Reporting Requirements*

The Permittee shall report the sulfur content of the ULSD fuel oil burned in the Solar Mars 100S Turbine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### 3. Allowable Emission Limits

a. *Limitations and Restrictions*

- i. The Permittee shall not exceed the emission limits stated herein at any time for the Solar Mars 100S Turbine and COEN duct burner.  
[P 070-0268 Part V]

- A. Short Term Emission Limits: These short term emission limits do not apply during periods of start-up and shutdown, unless otherwise noted.

*Turbine Operating on Natural Gas:*

Criteria

<u>Pollutants</u>	<u>lb/hr</u>	<u>lb/MMBTU</u>
PM-10/PM-2.5	5.52	0.027*
SO <sub>2</sub>	0.45	
NO <sub>x</sub>	1.60	
VOC	4.25	
CO	1.48	

*Turbine Operating on Oil:*

Criteria

<u>Pollutants</u>	<u>lb/hr</u>	<u>lb/MMBTU</u>
PM-10/PM-2.5	7.74	0.038*
SO <sub>2</sub>	0.19	
NO <sub>x</sub>	4.69	
VOC	4.28	
CO	1.48	
Pb	1.78E-3	

\* This limit shall apply at all times, including periods of start-up and shutdown.

### Section III: Applicable Requirements and Compliance Demonstration

*Duct Burner Operating on Natural Gas: \*\**

Criteria	
<u>Pollutants</u>	<u>lb/hr</u>
PM-10/PM-2.5	0.71
SO <sub>2</sub>	0.06
NO <sub>x</sub>	1.39
VOC	0.52
CO	0.79

\*\* The Duct Burner is incapable of being operated independently from the Turbine.

B. Start-up and Shutdown: The Permittee shall minimize emissions during periods of start-up and shutdown by the following work practices and time constraints. Start the ammonia injection as soon as minimum catalyst temperature is reached. The oxidation catalyst will not be bypassed during start-up or shutdown. The duration of start-up shall not exceed 60 minutes for a hot start or a warm start, or 240 minutes for a cold start. A hot start shall be defined as start-up when the turbine has been down for less than 8 hours. A warm start shall be defined as start-up when the turbine has been down for more than 8 hours. A cold start shall be defined as start-up when the turbine has been down for more than 24 hours. The duration of shutdown shall not exceed 30 minutes. Emissions during these periods shall be counted towards the annual emission limits stated herein. [P 070-0268 Part V.B]

C. Annual Emission Limits: (For all operating scenarios combined)

Criteria	tons per 12
<u>Pollutants</u>	<u>consecutive months</u>
PM-10/PM-2.5	34.1
SO <sub>2</sub>	2.3
NO <sub>x</sub>	24.9
VOC	20.9
CO	10.0
Pb	7.1E-03

D. Opacity: The Permittee shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9.

*b. Monitoring and Testing Requirements*

- i. The Permittee shall demonstrate compliance with the above emission limits for the Solar Mars 100S Turbine and COEN duct burner using emission factors from the following sources: [P 070-0268 Part V]
  - A. NO<sub>x</sub> PM-10, PM-2.5, NO<sub>x</sub>, CO, VOC, Ammonia: Stack Test Results.
  - B. SO<sub>2</sub>, Pb, HAPs: Compilation of Air Pollutant Emission Factors, AP-42, fifth edition, Section 3.1, April 2000 (turbine) and Section 1.4, July 1998 (duct burner).



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

#### *c. Record Keeping Requirements*

The Permittee shall calculate and record the monthly and consecutive 12 month PM-10, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 070-0268 PartIII.B.3]

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary turbine and duct burner; any malfunction of the air pollution control equipment. [40 CFR §60.79b)].

#### *d. Reporting Requirements*

The Permittee shall report the actual emissions from the Solar Mars 100S Turbine and COEN duct burner in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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

#### *a. Limitations and Restrictions*

- i. The Permittee shall not exceed the NO<sub>x</sub> emissions limit of 3.3 ppmvd @15% O<sub>2</sub> when burning natural gas and 9.0 ppmvd @15% O<sub>2</sub> when burning No. 2 oil for the Solar Mars 100S Turbine and COEN duct burner. [P 070-0268 Part V.A]

#### *b. Monitoring and Testing Requirements*

- i. The Permittee shall conduct an emission test of the Solar Mars 100S Turbine and COEN duct burner to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. 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. 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. If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]
- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60, Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity for a fuel-burning source. Notwithstanding the foregoing requirements of this subdivision:
  - A. If the commissioner determines that operating at or above ninety percent (90%) of maximum capacity for a fuel burning source or a process source during sampling is not reasonable given the location, configuration or operating conditions of a source, the commissioner may approve

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

testing of a fuel burning source or process source at an alternative maximum capacity where compliance with the emission limitations of this section shall be determined based on operating at or above ninety percent (90%) of the alternative maximum capacity approved by the commissioner; and

- iii. 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 in this permit. [P 070-0268 Part III.A.2]
- iv. The Permittee shall inspect the SCR once per year, at a minimum, or more frequently if recommended by manufacturer. P 070-0268 Part III.A.4]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep the following records:
  - A. Records of all tune-ups, repairs, replacement of parts and other maintenance;
  - B. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
  - C. Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
  - D. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.  
[RCSA §22a-174-22(1)(1)(D), (E), (H) & (J)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(1)(5)]

#### *d. Reporting Requirements*

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), or as otherwise directed by the commissioner in the intent-to-test approval, the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(1)(2)]
- ii. On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NO<sub>x</sub> emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NO<sub>x</sub> emissions for this emission unit in the annual emissions statement.

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#### 5. CO

##### *a. Limitations and Restrictions*

- i. The Permittee shall not exceed the CO emissions limit of 6.0 ppmvd @15% O<sub>2</sub> for the Solar Mars 100S Turbine and COEN duct burner. [P 070-0268 Part V.A]

##### *b. Monitoring and Testing Requirements*

- i. The Permittee shall conduct an emission test for CO every five years starting from the date of the initial stack test. [P 070-0268 Part VI]
- ii. The Permittee shall continuously monitor and continuously record the oxidation catalyst inlet temperature (°F). The Permittee shall maintain this parameter within the ranges recommended by the manufacturer to achieve compliance with the emission limits in this permit. [P 070-0268 Part III.A.3]
- iii. The Permittee shall inspect the oxidation catalyst once per year, at a minimum, or more frequently if recommended by manufacturer. [P 070-0268 Part III.A.4]

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

The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [P 070-0268 Part III.B.7]

##### *d. Reporting Requirements*

Permittee shall submit an acceptable test report to the Bureau within 45 days of the completion of emission testing. [P 070-0268 Part VI]

#### 6. Ammonia

##### *a. Limitations and Restrictions*

The Permittee shall not exceed the ammonia emissions limit of 5 ppmvd @15% O<sub>2</sub> for the Solar Mars 100S Turbine and COEN duct burner. [P 070-0268 Part V.A]

##### *b. Monitoring and Testing Requirements*

- i. The Permittee shall conduct stack emission testing for ammonia every five years from date of initial performance test. [P 070-0268 Part VI]
- ii. The Permittee shall continuously monitor and continuously record the SCR aqueous ammonia injection rate (lb/hr) and maintain this parameter within the ranges recommended by the manufacturer to achieve compliance with the emission limits in this permit. [P 070-0268 Part III.A.2]

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

The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [P 070-0268 Part III.B.7]

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#### *d. Reporting Requirements*

The Permittee shall submit an acceptable test report to the Bureau within 45 days of the completion of emission testing. Or as otherwise directed by the commissioner in the intent-test approval. [P 070-0268 Part VI]

#### **7. Work Practices and Maintenance Requirements**

- i. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. The Permittee shall operate and maintain this stationary combustion turbine, 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. [40 CFR §60.4333(a)] [P 070-0268 Part IV.A]
- ii. The Permittee shall properly operate the control equipment at all times that this turbine is in operation and emitting air pollutants. [P 070-0268 Part IV.B]
- iii. The Permittee shall keep records, when turbines are changed for routine maintenance, to include the following: (a) The date the turbine was changed, (b) The reason for the change, (c) Documentation that the replacement turbine is the same make and model number, (d) Documentation of all associated costs, and (e) Documentation the replacement turbine does not result in an increase in emissions, the emission of any new air pollutants, or increases in electrical output of the turbine. [P 070-0268 Part IV.C]

#### **D. GROUPED EMISSIONS UNIT 1: Emergency Engines subject to 40 CFR Part 63 Subpart ZZZZ requirements for existing compression engines rated less than or equal to 500 bhp located at a major source of HAPs. GEU-1 is comprised of the following units: EU-7, 8, 11, 20, 24, 48, & 49.**

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

###### *a. Limitations and Restrictions*

The emergency engines in GEU-1 are not subject to 22a-174-3a, 3b or 3c by virtue of their size and/or installation date, there are no operating hour restrictions on the use of these engines during emergency situations. The Permittee may operate the emergency engines in GEU-1 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-1 is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

###### *b. Monitoring and Testing Requirements*

The Permittee shall make and maintain records using non-resettable hour meters for the emergency engines in GEU-1 [40 CFR §63.6625(f)]

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

The Permittee shall document and keep records of the hours of operation of each emergency engine recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency. [40 CFR §63.6655(f)]

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#### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## **2. Sulfur Content**

#### *a. Limitations and Restrictions*

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of 0.0015% by weight.

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines:
  - A. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
  - B. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
  - C. 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-174-4(d)1]

#### *d. Reporting Requirements*

The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## **3. Fuel Usage**

#### *a. Limitations and Restrictions*

There are no operating limitations on fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

#### *b. Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage of each emergency engine, using either a fuel meter or by multiplying the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

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

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall report annual fuel usage for the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### **4. Particulate Matter**

#### *a. Limitations and Restrictions*

i. Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### **5. Work Practices and Maintenance Requirements**

#### *a. Limitations and Restrictions*

- i. The Permittee shall change the oil and filter for each emergency engine every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR Part 63.6625(i). [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(a)]
- ii. The Permittee shall inspect the air cleaner of each emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(b)]
- iii. The Permittee shall inspect all the hoses and belts of each emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(c)]

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

- iv. The Permittee shall minimize the emergency engines' time spent at idle during startup, and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If any of the emergency engines is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.D.5.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement 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]
- vi. The Permittee shall at all times operate and maintain the emergency engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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)]
- vii. The Permittee shall also operate and maintain the emergency engines and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of the maintenance conducted on the emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR §§63.6655(e) and (a)(4)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment (if any), and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (5)]

### Section III: Applicable Requirements and Compliance Demonstration

- iii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

#### d. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.D.5.a.i through III.D.5.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650 and Section VI.E of this Title V permit. [40 CFR §§63.6640(b) & 63.6650(f)]
- ii. If the work practices and/or maintenance requirements listed in Section III.D.5.a of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.D.5.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements 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]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6640(e)]

### E. GROUPED EMISSIONS UNIT 2 (GEU-2): Emergency Engines that are subject to RCSA §22a-174-3b(e) & 22 and 40 CFR Part 63 Subpart ZZZZ requirements for existing compression ignition engines rated greater than 500 bhp located at a major source of HAPs. GEU-2 is comprised of the following units: EU- 21 and 36.

#### 1. Hours of Operation

##### a. Limitations and Restrictions

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee may operate the emergency engines in GEU-2 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-2 is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

##### b. Monitoring and Testing Requirements

The Permittee shall monitor hours of operation of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

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



## Section III: Applicable Requirements and Compliance Demonstration

### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## 2. Sulfur Content

### *a. Limitations and Restrictions*

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of 0.0015% by weight. [RCSA §22a-174-3(b)(e)(2)(D)]

### *b. Monitoring and Testing Requirements*

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

### *c. Record Keeping Requirements*

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines:
  - A. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
  - B. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
  - C. 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)]

### *d. Reporting Requirements*

The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## 3. Fuel Usage

### *a. Limitations and Restrictions*

There are no operating limitations on fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

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

#### *b. Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage of each emergency engine, using either a fuel meter or by multiplying the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall report annual fuel usage for the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### **4. Particulate Matter**

#### *a. Limitations and Restrictions*

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### **5. Nitrogen Oxides**

#### *a. Limitations and Restrictions*

RCSA §22a-174-22(d) through (k) shall not apply to an emergency engine. The operation of an emergency engine for routine, scheduled testing or maintenance is expressly prohibited on any day for which the Commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups,” “unhealthy for sensitive groups,” “unhealthy,” or “very unhealthy.” [RCSA §22a-174-22(b)(3)]

### Section III: Applicable Requirements and Compliance Demonstration

#### b. *Monitoring and Testing Requirements*

For all units in GEU-2, record keeping specified in Section III.E.5.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174- 33(j)(1)(K)(ii)]

#### c. *Record Keeping Requirements*

i. The Permittee shall keep the following records:

A. Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use;

B. Records of all tune-ups, repairs, replacement of parts and other maintenance;

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

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

[RCSA §22a-174-22(1)(1)(A), (D), (E) & (J)]

ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(1)(5)]

#### d. *Reporting Requirements*

On or before April 15 of each year, the Permittee shall submit a report on NOx emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NOx emissions for these emission units in the annual emissions statement.

### **F. GROUPED EMISSIONS UNIT 3 (GEU-3): Emergency Engines subject to 40 CFR Part 63 Subpart ZZZZ requirements for new compression ignition engines located at an area source of HAPs and NSPS for compression ignition internal combustion engines under 40 CFR Part 60, Subpart III. GEU-3 is comprised of the following units: EU-51 & 53**

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

##### a. *Limitations and Restrictions*

There are no limitations on the hours of operation for these emergency engines in emergency situations. However, operation for maintenance checks and readiness testing for each emergency engine in GEU-3 is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

## Section III: Applicable Requirements and Compliance Demonstration

### *b. Monitoring and Testing Requirements*

The Permittee shall monitor the hours of operation of each emergency engine using a non-resettable hour meter. [40 CFR §60.4209(a)]

### *c. Record Keeping Requirements*

The Permittee shall make and maintain records of the annual hours of operation of each emergency engine. [RCSA §22a-174-4(d)(1)]

### *d. Reporting Requirements*

The Permittee shall make records of the annual hours of operation for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

## 2. Sulfur Content

### *a. Limitations and Restrictions*

The Permittee must purchase diesel fuel for the emergency engines in GEU-3 that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [40 CFR Part 60.4207(b)]

### *b. Monitoring and Testing Requirements*

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

### *c. Record Keeping Requirements*

i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines:

A. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;

B. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or

C. 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-174-4(d)(1)]

### *d. Reporting Requirements*

The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## 3. Fuel Usage

### *a. Limitations and Restrictions*

There are no limitations on the quantity of fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

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

*b. Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage of each emergency engine, using either a fuel meter or by multiplying the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall report annual fuel usage for the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

#### **4. Particulate Matter**

*a. Limitations and Restrictions*

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

*b. Monitoring and Testing Requirements*

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

*c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### Section III: Applicable Requirements and Compliance Demonstration

#### 5. Work Practices and Operational Requirements

Pursuant to 40 CFR §63.6590(c), the emergency engines in GEU-3 meet the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart III.

##### *a. Operational Requirements*

- i. The Permittee shall operate and maintain the emergency engines in GEU-3 to achieve the emission standards as required in 40 CFR §§60.4204 and 60.4205 over the entire life of each engine. [40 CFR §60.4206]
- ii. The Permittee shall comply with the following, except as permitted under 40 CFR §60.4211(g) and Section III.F.5.a.iv of this Title V permit:
  - A. Operate and maintain the stationary combustion ignition internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  - B. Change only those emission-related settings that are permitted by the manufacturer; and
  - C. Meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply. [40 CFR §60.4211(a)]
- iii. The Permittee shall demonstrate compliance for a 2007 model year and later stationary compression ignition internal combustion engine by purchasing an engine certified to the emission standards as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g) and Section III.G.5.a.iv of this Title V permit. [40 CFR §60.4211(c)]
- iv. If the Permittee does not install, configure, operate, and maintain an emergency engine in GEU-3 according to the manufacturer's emission-related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, compliance must be demonstrated as specified in 40 CFR §§60.4211(g)(1) through (3). [40 CFR §60.4211(g)]

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

The Permittee shall demonstrate compliance for compression ignition fire pump engines manufactured prior to the model years in Table 3 of 40 CFR Part 60 Subpart IIII by keeping records of engine manufacturer data indicating compliance with the applicable standards. [40 CFR §60.4211(b)(3)]

##### *c. Reporting Requirements*

The Permittee is not required to submit an Initial Notification under 40 CFR Part 60 Subpart IIII for the emergency engines in GEU-3 [40 CFR §60.4214(b)]

### Section III: Applicable Requirements and Compliance Demonstration

**G GROUPED EMISSIONS UNIT 4 (GEU-4): Emergency engines subject to RCSA §22a-174-3b; §22a-174-22; and 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated greater than 500 bhp located at a major source of HAPs. GEU-4 is comprised of the following units: EU-30 & 35**

#### 1. Hours of Operation

##### *a. Limitations and Restrictions*

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee may operate the emergency engines in GEU-4 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-4 is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

##### *b. Monitoring and Testing Requirements*

The Permittee shall monitor hours of operation of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

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

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

##### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

#### 2. Fuel Usage

##### *a. Limitations and Restrictions*

There are no limitations on the quantity of fuel usage for the emergency engines in GEU-4. However, there are monitoring, record keeping and reporting requirements.

##### *b. Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage of each emergency engine in GEU-4, using either a fuel meter or by multiplying the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

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

The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

### Section III: Applicable Requirements and Compliance Demonstration

#### d. Reporting Requirements

The Permittee shall report annual fuel usage for the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### 3. Particulate Matter

#### a. Limitations and Restrictions

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

#### b. Monitoring and Testing Requirements

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

#### c. Record Keeping Requirements

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

#### d. Reporting Requirements

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### 4. Nitrogen Oxides

#### a. Limitations and Restrictions

RCSA §22a-174-22(d) through (k) shall not apply to an emergency engine. Operation of an emergency engine for routine, scheduled testing or maintenance is expressly prohibited on any day for which the Commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups,” “unhealthy for sensitive groups,” “unhealthy,” or “very unhealthy.” [RCSA §22a-174-22(b)(3)]

#### b. Monitoring and Testing Requirements

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

#### c. Record Keeping Requirements

i. The Permittee shall keep the following records:

A. Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use;



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

- B. Records of all tune-ups, repairs, replacement of parts and other maintenance;
- C. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22; and
- D. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.

[RCSA §22a-174-22(1)(1)(A), (D), (E) & (J)]

- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State.

[RCSA §22a-174-22(1)(5)]

#### *d. Reporting Requirements*

On or before April 15 of each year, the Permittee shall submit a report on NOx emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NOx emissions for these emission units in the annual emissions statement.

### **H. GROUPED EMISSIONS UNIT 5 (GEU-5): Emergency engines subject to RCSA §22a-174-3b and 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated less than or equal to 500 bhp located at a major source of HAPs. GEU-5 is comprised of the following units: EU-31 & 32**

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

##### *a. Limitations and Restrictions*

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee may operate the emergency engines in GEU-5 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-5 is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

##### *b. Monitoring and Testing Requirements*

The Permittee shall install non-resettable hour meters, if they are not already installed, for the emergency engines in GEU-5. [40 CFR §63.6625(f)]

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

*c. Record Keeping Requirements*

The Permittee shall make and maintain records of the hours of operation of each emergency engine for each month and 12 month rolling aggregate as recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency [RCSA §22a-174-3b(e)(4) & 40 CFR §63.6655(f)]

*d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## **2. Particulate Matter**

*a. Limitations and Restrictions*

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

*b. Monitoring and Testing Requirements*

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

*c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

*d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

## Section III: Applicable Requirements and Compliance Demonstration

### 3. Work Practices and Maintenance Requirements

#### a. Limitations and Restrictions

- i. The Permittee shall change the oil and filter for each emergency engine every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i). [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(a)]
- ii. The Permittee shall inspect the spark plugs of each emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(b)]
- iii. The Permittee shall inspect all the hoses and belts of each emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(c)]
- iv. The Permittee shall minimize the emergency engines' time spent at idle during startup, and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If any of the emergency engines is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.H.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement 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]
- vi. The Permittee shall at all times operate and maintain the emergency engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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)]
- vii. The Permittee shall also operate and maintain the emergency engines and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

#### b. Monitoring and Testing Requirements

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

### Section III: Applicable Requirements and Compliance Demonstration

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of the maintenance conducted on the emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR §63.6655(e) and (a)(4)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment (if any), and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (5)]
- iii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

#### *d. Reporting Requirements*

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.H.3.a.i through III.H.3.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650 and Section VI.E of this Title V permit. [40 CFR §§63.6640(b) & 63.6650(f)]
- ii. If the work practices and/or maintenance requirements listed in Section III.I.3.a of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.I.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements 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]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

### **I. EMISSIONS UNIT 33 (EU-33): B185-1 EG Kohler 30RZ – Emergency engine subject to 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated less than or equal to 500 bhp located at a major source of HAPs**

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

##### *a. Limitations and Restrictions*

There is no time limit for use of EU-33 in emergency situations. The Permittee may operate EU-33 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

## Section III: Applicable Requirements and Compliance Demonstration

### *b. Monitoring and Testing Requirements*

The Permittee shall install a non-resettable hour meter, if not already installed, for EU-33. [40 CFR §63.6625(f)]

### *c. Record Keeping Requirements*

The Permittee shall make and maintain records of the hours of operation recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency [40 CFR §63.6655(f)]

### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## 2. Particulate Matter

### *a. Limitations and Restrictions*

- i. Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

### *b. Monitoring and Testing Requirements*

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

### *c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

### *d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

## 3. Work Practices and Maintenance Requirements

### *a. Limitations and Restrictions*

- i. The Permittee shall change the oil and filter for each emergency engine every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i). [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(a)]

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

- ii. The Permittee shall inspect the spark plugs of each emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(b)]
- iii. The Permittee shall inspect all the hoses and belts of each emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(6)(c)]
- iv. The Permittee shall minimize the emergency engines' time spent at idle during startup, and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If any of the emergency engines is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.J.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement 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]
- vi. The Permittee shall at all times operate and maintain the emergency engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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)]
- vii. The Permittee shall also operate and maintain the emergency engines and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of the maintenance conducted on the emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR §63.6655(e) and (a)(4)]

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

- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment (if any), and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (5)]
- iii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

#### *d. Reporting Requirements*

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.I.3.a.i through III.I.3.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650 and Section VI.E of this Title V permit. [40 CFR §§63.6640(b) & 63.6650(f)]
- ii. If the work practices and/or maintenance requirements listed in Section III.I.3.a of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.J.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements 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]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

### **J. EMISSIONS UNIT 34 (EU-34): EQ Basin EG Onan 150 DGFA – Emergency engine subject to RCSA §22a-174-3b and 40 CFR Part 63 Subpart ZZZZ requirements for existing compression ignition engines located at a major source of HAPs**

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

##### *a. Limitations and Restrictions*

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. The Permittee may operate the EU-34 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

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

#### *b. Monitoring and Testing Requirements*

The Permittee shall install a non-resettable hour meter, if not already installed for EU-34.  
[40 CFR §63.6625(f)]

#### *c. Record Keeping Requirements*

The Permittee shall make and maintain records of the hours of operation for each month and 12 month rolling aggregate as recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency  
[RCSA §22a-174-3b(e)(4) & 40 CFR §63.6655(f)]

#### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation in the annual emission statement.  
[RCSA §22a-174-4(d)(1)]

## **2. Sulfur Content**

#### *a. Limitations and Restrictions*

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of 0.0015% by weight.  
[RCSA §22a-174-3b(e)(2)(D)]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines:
  - A. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
  - B. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
  - C. 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)]

#### *d. Reporting Requirements*

The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]



## Section III: Applicable Requirements and Compliance Demonstration

### 3. Fuel Usage

#### a. *Limitations and Restrictions*

There are no limitations on the quantity of fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

#### b. *Monitoring and Testing Requirements*

The Permittee shall monitor the annual fuel usage of each emergency engine, using either a fuel meter or by multiplying the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### c. *Record Keeping Requirements*

The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

#### d. *Reporting Requirements*

The Permittee shall report annual fuel usage for the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### 4. Particulate Matter

#### a. *Limitations and Restrictions*

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

#### b. *Monitoring and Testing Requirements*

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

#### c. *Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

#### d. *Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### Section III: Applicable Requirements and Compliance Demonstration

#### 5. Work Practices and Maintenance Requirements

##### *a. Limitations and Restrictions*

- i. The Permittee shall change the oil and filter for the emergency engine every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR Part 63.6625(i). [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(a)]
- ii. The Permittee shall inspect the air cleaner of each emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(b)]
- iii. The Permittee shall inspect all the hoses and belts of the emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(c)]
- iv. The Permittee shall minimize the emergency engine's time spent at idle during startup, and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.K.5.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement 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]
- vi. The Permittee shall at all times operate and maintain the emergency engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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)]
- vii. The Permittee shall also operate and maintain the emergency engine and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

##### *b. Monitoring and Testing Requirements*

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

### Section III: Applicable Requirements and Compliance Demonstration

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of the maintenance conducted on the emergency engine in order to demonstrate that the emergency engine was operated and maintained according to the maintenance plan, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR §§63.6655(e) and (a)(4)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment (if any), and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(2) and (5)]
- iii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

#### *d. Reporting Requirements*

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.K.5.a.i through III.K.5.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650 and Section VI.E of this Title V permit. [40 CFR §§63.6640(b) & 63.6650(f)]
- ii. If the work practices and/or maintenance requirements listed in Section III.K.5.a of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.K.5.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements 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]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6640(e)]

### **K. EMISSIONS UNIT 38 (EU-38): B274S-3 EG Caterpillar 3406C-DITA – Emergency engine subject to RCSA §22a-174-3b; §22a-174-22; and 40 CFR Part 63 Subpart ZZZZ requirements for new compression ignition engines rated greater than 500 bhp located at a major source of HAPs**

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

##### *a. Limitations and Restrictions*

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

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

- ii. The Permittee may operate EU-38 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing is limited to 100 hours per year as allowed by 40 CFR 63.6640(f)(2) through (4). [40 CFR Part 63.6640(f)]

#### *b. Monitoring and Testing Requirements*

The Permittee shall monitor hours of operation of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

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

#### *d. Reporting Requirements*

The Permittee shall report the annual hours of operation for each emergency engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

## **2. Sulfur Content**

#### *a. Limitations and Restrictions*

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where 'motor vehicle diesel fuel' is defined as in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)] Motor vehicle diesel fuel means on-road diesel fuel that meets the sulfur limits in 40 CFR 80.29, 80.500(a) and 80.520(a) and (b). [RCSA §22a-174-42(a)]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines:
  - A. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
  - B. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
  - C. 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)]

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

#### *d. Reporting Requirements*

The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

### **3. Particulate Matter**

#### *a. Limitations and Restrictions*

Any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

#### *b. Monitoring and Testing Requirements*

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

#### *c. Record Keeping Requirements*

The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

#### *d. Reporting Requirements*

The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### **4. Nitrogen Oxides**

#### *a. Limitations and Restrictions*

i. RCSA §22a-174-22(d) through (k) shall not apply to an emergency engine. The operation of an emergency engine for routine, scheduled testing or maintenance is expressly prohibited on any day for which the Commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups,” “unhealthy for sensitive groups,” “unhealthy,” or “very unhealthy.” [RCSA §22a-174-22(b)(3)]

#### *b. Monitoring and Testing Requirements*

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

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep the following records:
  - A. Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use;
  - B. Records of all tune-ups, repairs, replacement of parts and other maintenance;
  - C. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22; and
  - D. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.  
[RCSA §22a-174-22(1)(1)(A), (D), (E), & (J)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(1)(5)]

#### *d. Reporting Requirements*

- i. On or before April 15 of each year, the Permittee shall submit a report on NO<sub>x</sub> emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(1)(6)] The Permittee shall comply with this requirement by reporting NO<sub>x</sub> emissions for these emission units in the annual emissions statement.

### **5. Work Practices and Operational Requirements**

#### *a. Limitations and Restrictions*

EU-38 does not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b of 40 CFR Part 63 Subpart ZZZZ. Additionally, EU-38 does not need to comply with the requirements in Table 8 of 40 CFR Part 63, Subpart ZZZZ, except for the initial notification requirements [40 CFR §§63.6600(c) & 63.6640(e)]

#### *b. Reporting Requirements*

The Initial Notification submitted for EU-38 pursuant to 40 CFR Part 60 Subpart ZZZZ should include the information in §63.9(b)(2)(i) through (v); a statement that the stationary emergency RICE has no additional requirements; and an explanation of the basis for the exclusion (i.e., EU-38 operates exclusively as an emergency stationary RICE and has a site rating of more than 500 brake HP located at a major source of HAP emissions). [40 CFR §63.6645(f)]

### Section III: Applicable Requirements and Compliance Demonstration

#### L. GROUPED EMISSIONS UNIT 8 (GEU-8): Cold cleaning units with internal volumes greater than one (1) liter and using solvents containing greater than 5% VOCs by weight

##### 1. VOC Emissions

###### a. Operational Requirements

The Permittee shall operate the cold cleaners in GEU-8 in accordance with the following requirements:

- i. Equip the cleaning device with a cover that is easily operated with one hand  
[RCSA § 22a-174-20(1)(3)(A)]
- ii. Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system.  
[RCSA § 22a-174-20(1)(3)(B)]
- iii. Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA § 22a-174-20(1)(3)(C)]
- iv. Close the cover if parts are not being handled in the cleaner for two (2) minutes or more, or if the device is not in use. [RCSA § 22a-174-20(1)(3)(D)]
- v. Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer.  
[RCSA § 22a-174-20(1)(3)(E)]
- vi. If a degreasing solvent spray is used:
  - A. supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray),
  - B. maintain a solvent spray pressure that does not exceed ten (10) pounds per square inch as measured at the pump outlet, and
  - C. perform spraying within the confines of the cold cleaning unit.  
[RCSA § 22a-174-20(1)(3)(G)]
- vii. Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip. [RCSA § 22a-174-20(1)(3)(G)]
- viii. Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling. [RCSA § 22a-174-20(1)(3)(H)]
- ix. Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements. [RCSA § 22a-174-20(1)(3)(I)]
- x. On or after May 1, 2008, use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. [RCSA § 22a-174-20(1)(3)(K)]
- xi. Sponges, fabric, wood, leather, paper and other absorbent material shall not be cleaned in a cold cleaning machine [RCSA § 22a-174-20(1)(3)(L)]

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

#### *b. Record Keeping Requirements*

The Permittee shall maintain records of the information identified in this subparagraph for a minimum of five (5) years after such record is made:

- i. The type of solvent used, including a description of the solvent and the solvent name,
- ii. The vapor pressure of the solvent in mmHg measured at 20 degrees Celsius (68 degrees Fahrenheit),
- iii. The percent VOC content by weight, and
- iv. The amount of solvent added to each unit on a monthly basis.
- v. Records demonstrating the unit's design and operational requirements in accordance with Section III.L.1 of this Title V permit.

[RCSA § 22a-174-20(1)(3)(J)]

#### *c. Reporting Requirements*

The Permittee shall provide the records specified in Section III.M.1.b of this Title V permit to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

### **M. GROUPED EMISSIONS UNIT 9 (GEU-9): Cold cleaning units with internal volumes greater than one (1) liter and using solvents containing less than or equal to 5% VOCs by weight**

#### **1. VOC Emissions**

##### *a. Operational Requirements*

The Permittee shall use solvents containing less than or equal to 5 percent (5%) VOCs by weight [RCSA §22a-174-20(1)(3)]

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

The Permittee shall maintain the following records to demonstrate use of RCSA §22a-174-20(l) exempt solvents.

- i. The name of solvent used;
- ii. The percent VOC content by weight

[RCSA § 22a-174-33(j)(1)(K)(ii)]

##### *c. Reporting Requirements*

The Permittee shall provide the records specified in Section III.O.1.b of this Title V permit to the commissioner upon request. [RCSA §22a-174-4(d)(1)]



## Section III: Applicable Requirements and Compliance Demonstration

### N. 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.
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.
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.

### Section III: Applicable Requirements and Compliance Demonstration

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.
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. **Hazardous Air Pollutant Emissions:** Premises-wide HAP emissions shall be less than 10 tons per consecutive 12 months of any single HAP, which has been listed in Section 112(b) of the Federal Clean Air Act, or 25 tons per consecutive 12 months of any combination of HAPs. [P 070-0268 Part VIII.B]
19. **Architectural and Industrial Maintenance Coatings:** The Permittee shall comply with the requirements for the application of architectural coatings as set forth in RCSA §22a-174-41.
21. **Adhesives and sealants:** The Permittee shall comply with the requirements for application of any adhesive, sealant, adhesive primer or sealant primer as set forth in RCSA §22a-174-44.
22. **Protection of Stratospheric Ozone:** The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.
23. **Asbestos:** The Permittee shall comply with the requirements for demolition and renovation of structures with asbestos containing materials as set forth in 40 CFR 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>
		<b>No steps are required for achieving compliance at this time.</b>		

## **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.** 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.
- D.** 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.
- E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- H.** Reporting of emissions of greenhouse gases: In accordance with CGS §22a-200b, the Permittee shall report greenhouse gas emissions to the commissioner in a format specified by the commissioner.

## 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 VI 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

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### Title VI 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 sub clause 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 sub clause 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;

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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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#### **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



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### Title VI 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 there under. 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.

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

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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.