

## 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>	<b>070-0194-TV</b>
<b>Client/Sequence/Town/Premises Numbers</b>	<b>800/001/070/0028</b>
<b>Date Issued</b>	October 3, 2024
<b>Expiration Date</b>	October 3, 2029

**Corporation:**

*United States Naval Submarine Base New London*


**Premises Location:**

*Route 12, Groton, Connecticut 06349-5039*

**Name of Responsible Official and Title:**

*Kenneth M. Curtin, Captain USN, Commanding Officer*

All the following attached pages, 2 through 78, are hereby incorporated by reference into this Title V permit.

for   
Katherine S. Dykes  
Commissioner

October 3, 2024  
Date

# TABLE OF CONTENTS

PAGE

<b>List of Abbreviations/Acronyms</b> .....	5
<b>Section I. Premises Information/Description</b>	
A. Premises Information.....	7
B. Premises Description. ....	7
<b>Section II. Emissions Units Information</b>	
A. Emissions Units Description - Table II.A.....	10
B. Operating Scenario Identification - Table II.B .....	12
<b>Section III. Applicable Requirements and Compliance Demonstration</b>	
A. Grouped Emissions Unit 12.....	14
B. Grouped Emissions Unit 3 .....	22
C. Grouped Emissions Unit 4.....	23
D. Grouped Emissions Unit 5 and 82 .....	25
E. Emissions Unit 369.....	26
F. Grouped Emissions Unit 6.....	27
G. Grouped Emissions Unit 13 .....	36
H. 40 CFR Part 63 Subpart ZZZZ Requirements.....	46
I. 40 CFR Part 63 Subpart IIII Requirements.....	49
J. 40 CFR Part 63 Subpart JJJJ Requirements.....	51
K. Grouped Emissions Unit 7 .....	51
L. Emissions Unit 126 and Grouped Emissions Unit 10.....	53
M. Grouped Emissions Units 9 and 11.....	56
N. Emissions Unit 131 .....	58
O. Grouped Emissions Unit 81 .....	61
P. Premises-Wide General Requirements .....	64
<b>Section IV. Compliance Schedule - Table IV</b> .....	69
<b>Section V. State Enforceable Terms and Conditions</b> .....	70
<b>Section VI. Title V Requirements</b>	
A. Submittals to the Commissioner & Administrator.....	72
B. Certifications [RCSA §22a-174-33(b)].....	72
C. Signatory Responsibility [RCSA §22a-174-2a(a)] .....	72
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)].....	73
E. Monitoring Reports [RCSA §22a-174-33(o)(1)] .....	73
F. Premises Records [RCSA §22a-174-33(o)(2)] .....	74
G. Progress Reports [RCSA §22a-174-33(q)(1)].....	74
H. Compliance Certifications [RCSA §22a-174-33(q)(2)] .....	75
I. Permit Deviation Notifications [RCSA §22a-174-33(p)] .....	75
J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....	75
K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)] .....	75
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)] .....	75
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....	76

**TABLE OF CONTENTS, continued**

	<b>PAGE</b>
<b>Section VI. Title V Requirements, continued</b>	
N. Permit Availability.....	76
O. Severability Clause [RCSA §22a-174-33(j)(1)(R)] .....	76
P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....	76
Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)] .....	76
R. Property Rights [RCSA §22a-174-33(j)(1)(W)] .....	76
S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)].....	76
T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)] .....	77
U. Information for Notification [RCSA §22a-174-33(r)(2)(A)] .....	77
V. Transfers [RCSA §22a-174-2a(g)] .....	77
W. Revocation [RCSA §22a-174-2a(h)] .....	77
X. Reopening for Cause [RCSA §22a-174-33(s)] .....	78
Y. Credible Evidence.....	78

## **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>
°F	Degree Fahrenheit
bhp	Brake Horse Power
Btu	British Thermal Unit
CAM	Compliance Assurance Monitoring
CARB	California Air Resources Board
cf	cubic feet
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CI	Compression Ignition
CO	Carbon Monoxide
CMS	Continuous Monitoring System
CPMS	Continuous Parameter Monitoring System
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
gal	Gallons
GDF	Gasoline Dispensing Facility
gm	Gram
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
HEPA	High-Efficiency Particulate Air
hr	Hour
HRSG	Heat Recovery Steam Generator
in. H <sub>2</sub> O	Inches of Water
ISO	International Organization for Standardization
lb	Pound
LPG	Liquid Petroleum Gas
MASC	Maximum Allowable Stack Concentration
mcf	Thousand Cubic Feet
MMcf	Million Cubic Feet
MMBtu	Million Btu
mmHg	Millimeters of Mercury
MRC	Maximum Rated Capacity
MW	Megawatt
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O <sub>2</sub>	Oxygen
Pb	Lead
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns

## LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
ppbvd	Parts per billion, volumetric basis dry
ppm	Parts per million
ppmvd	Parts per million, volumetric basis dry
psi	Pounds per square inch
psig	Pounds per square inch, gauge
PTE	Potential to Emit
QA/QC	Quality Assurance and Quality Control
RCSA	Regulations of Connecticut State Agencies
scf	Standard Cubic Feet
SIC	Standard Industrial Classification Code
SO <sub>2</sub>	Sulfur Dioxide
tpy	Tons per Year
ULSD	Ultra Low Sulfur Distillate
VOC	Volatile Organic Compound
VOHAP	Volatile Organic Hazardous Air Pollutant
yr	Year

## Section I: Premises Information/Description

### A. PREMISES INFORMATION

Nature of Business: National Defense  
Primary SIC: 9711

Facility Mailing Address: U.S. Naval Submarine Base New London  
Environmental Division  
PO Box 400  
Groton, CT 06349-5400

Telephone Number: 860-694-3976

### B. PREMISES DESCRIPTION

The United States Navy owns and operates the Naval Submarine Base New London (SUBASENLON) located in the towns of Groton and Ledyard, Connecticut. The facility is a major source of SO<sub>2</sub>, CO, VOC, NO<sub>x</sub>, and HAPs and is located in a serious ozone non-attainment area as defined in RCSA §22a-174-1(105). Emission sources at the facility include boilers, emergency engines, non-emergency engines, cold-cleaning parts cleaners, paint spray booths, solvent dip tanks, dry-dock and pier side coating operations, metal and woodworking shops, grit blast stations, fuel dispensing systems, and underground storage tanks.

#### **Powerhouse (Building 29)**

EU-386, (Permit No. 070-0279), and EU-416, (Permit No. 070-0283) are Cleaver Brooks steam boilers that were issued permits to operate on 12/14/2010 and 5/5/2011, respectively. These boilers provide superheated, high-pressure steam that is used to heat buildings throughout SUBASENLON. The boilers are equipped with low-NO<sub>x</sub> burners, but do not employ flue gas recirculation or any other add-on control devices. There are collateral conditions that affect six emergency engines (EU-368, 392, 393, 384, 272, and 273) in Permit No. 070-0279 and one emergency engine (EU-369) in Permit No. 070-0283, all identified as GEU-5.

EU-506 (Permit 070-291) is a 52 MMBtu/hr Natural Gas and ULSD fired Firetube Boiler that provides space heat, domestic hot water, and process steam for SUBASENLON. The unit was issued the permit to operate on 9/14/2020. The boiler is equipped with a low-NO<sub>x</sub> burner and employs flue gas recirculation.

GEU-12 (EU-386, EU-416, and EU-506) is subject to 40 CFR Part 60 Subpart Dc, New Source Performance Standard (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units. The boilers are also subject to 40 CFR Part 63 Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as well as RCSA §22a-174-22e, Control of Nitrogen Oxides Emissions from Fuel-Burning Equipment at Major Stationary Sources of Nitrogen Oxides. The boilers are operated under the Gas 1 subcategory as defined in 40 CFR §63.7575. The boilers are equipped with low-NO<sub>x</sub> burners, Flue-Gas Recirculation, and O<sub>2</sub> Trim.

GEU-13 (EU-507 and EU-508, Permit Nos. 070-292 and 070-293), includes two permitted 5,564 kW Rolls-Royce/Bergen Natural Gas fired Combined Heat and Power (CHP) 4-Stroke Lean Burn internal combustion engines with selective catalytic oxidation catalysts for emissions control along with individual heat recovery steam generators (HRSG). The HRSG's can be bypassed so that only electrical

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

power is produced. Each engine has separate operating permit and can operate either in combination or separately from the other. The engines are subject to 40 CFR Part 60 Subpart JJJJ and Part 63 Subpart ZZZZ.

GEU-6 (EU-448 and EU-449, Permit Nos. 070-0285 and 070-0286) includes two permitted Caterpillar C27 non-emergency diesel engines with oxidation catalysts. GEU-6 is subject to 40 CFR Part 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ.

### **Emergency Engines**

EU-369 is an Onan emergency engine located in Building No. 446 subject to RCSA §22a-174-22e with collateral conditions in Permit No. 070-0283.

GEU-3 includes stationary emergency engines that are subject to RCSA §22a-174-3b(e).

GEU-4 includes stationary emergency engines that are subject to RCSA §22a-174-3b(e) and RCSA §22a-174-22e.

GEU-5 and GEU-82 include stationary emergency engines that are not subject to former RCSA §22a-174-2 or §22a-174-3a, but have compliance requirements in 40 CFR Part 63 Subpart ZZZZ.

All of the engines in GEU-3, 4, 5, and 82, and EU-369 are subject to the 40 CFR Part 63 Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines. Based on the type of engine, construction and model year of the engine, 40 CFR Part 60 Subpart IIII, NSPS for Stationary Compression Ignition Internal Combustion Engines and 40 CFR Part 60 Subpart JJJJ Stationary Spark Ignition Internal Combustion Engines are also applicable.

There is monthly premises-wide record keeping to identify any new or removed engines from the facility so that the permit does not necessarily require modification each time an engine is installed or removed.

### **Cold Cleaning**

GEU-7 includes all cold cleaning units that are not subject to former RCSA §22a-174-2 or §22a-174-3a. These units are subject to RCSA §22a-174-20(l)(3).

There is monthly premises-wide record keeping to identify any new or removed cold cleaning units from the facility so that the permit does not necessarily require modification each time a cold cleaning unit is installed or removed.

### **Coating Operations**

EU-126 is a Nordson electrostatic powder paint system located in Building 174 subject to RCSA §§22a-174-3b(g) and 20(s) and Consent Order No. 8049. Particulate matter emissions from this unit are controlled with HEPA filters. EU-509 is an electric infrared heater associated with EU-126.

GEU-9 includes non-metal coating operations that are subject to RCSA §22a-174-3b(g) and 40 CFR Part 63 Subpart II, NESHAP for Shipbuilding and Ship Repair. Included in this group are a Binks airless air-assisted spray booth for fiberglass masts (EU-162), located in Building 456, and a fiberglass paint booth (EU-398) located in Building 1. Particulate matter emissions from these units are controlled with HEPA filters.

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

GEU-10 includes miscellaneous metal parts coating operations that are subject to RCSA §22a-174-20(s) and Consent Order No. 8049. Included in this group are the Plasti-Sol tanks (EU-238) and associated bake oven (EU-240), located in Building 174, and the bake oven (EU-239), located in Building 40. Also included in this group are two ACRASTRIP Plastisol Removers (EU-296 and EU-391), an exhaust hood (EU-256), and a power coating system (EU-457). These sources are not subject to former RCSA §22a-174-2 or §22a-174-3a.

GEU-11 includes coating operations that are subject to 40 CFR Part 63 Subpart II, NESHAP for Shipbuilding and Ship Repair. These operations include Shippingport Drydock submarine maintenance at ARDM-4 (EU-241), and base-wide NESHAP coating operations (EU-285). These operations are not subject to former RCSA §22a-174-2 or §22a-174-3a.

There is monthly premises-wide record keeping for EU-126, GEU-9, 10, and 11 to identify any new or removed coating units from the facility so that the permit does not necessarily require modification each time a coating unit is installed or removed.

### **Abrasive Blast Booth**

EU-131 is a walk-in abrasive blast booth located in Building 174. Particulate matter emissions are controlled with a HEPA filter. The abrasive blast booth was issued Permit No. 070-0231 on 12/15/1999 and a modified permit on 9/10/2001.

### **Gasoline Dispensing Facility**

GEU-81 is a gasoline dispensing facility, including the associated underground storage tanks, that is operated at Building 428. The Stage II vapor recovery system was removed on 9/18/2013.

### **Premises-Wide General Requirements**

The facility operates numerous natural gas, No. 2 fuel oil, and liquid propane fired boilers that do not require registrations or permits and are only subject to the premises-wide requirements of the Title V permit. The permittee tracks these as GEU-2.

The facility is subject to 40 CFR Part 61 Subpart M, NESHAP for Asbestos. The source of asbestos emissions is building demolition and renovation.

The facility also contains a number of refrigerant containing devices that have a capacity of 50 pounds or greater, which makes them subject to the leak detection, repair and recycling provisions found in 40 CFR Part 82 Subpart F, Protection of Stratospheric Ozone – Recycling and Emissions Reduction. These devices include refrigerators, chillers, condensers, air conditioners, dehumidifiers and fire suppression systems.

## 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 or Regulations into this Title V permit.

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order or Regulation Number</b>
GEU-12 Bldg. No. 29	<ul style="list-style-type: none"> <li>○ Two 49 MMBtu/hr Cleaver Brooks Boilers, Const. 2011                             <ul style="list-style-type: none"> <li>• Boiler 1S, (EU-386)</li> <li>• Boiler 4, (EU-416)</li> </ul> </li> <li>○ One 52 MMBtu/hr Boiler, Constr. 2021 (EU-506)</li> </ul>	<p>EU-386 and EU-416: Ultra-Low NOx burner, O<sub>2</sub> Trim and flue gas recirculation</p> <p>EU-506: Low NOx Duct Burner, O<sub>2</sub> Trim and flue gas recirculation</p>	<p>Permit No. 070-0279 Permit No. 070-0283 Permit No. 070-0291 RCSA §22a-174-22e 40 CFR Part 60 Subpart Dc 40 CFR Part 63 Subpart DDDDD</p>
GEU-3	Miscellaneous Emergency Engines (PTE ≥ 15tpy)  (Various EU – see Section III.B of this Title V permit)	None	RCSA §22a-174-3b(e) 40 CFR Part 60 Subpart IIII 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
GEU-4	Miscellaneous Emergency Engines (PTE ≥ 15tpy; MRC ≥ 3 MMBTU/hr)  (Various EU – see Section III.C of this Title V permit)	None	RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 60 Subpart IIII 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
GEU-5	Six Emergency Engines (PTE < 15 tpy)  (EU-368, 392, 393, 384, 272, 273)	None	Collateral Conditions in Permit No. 070-0279 40 CFR Part 60 Subpart IIII 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
EU-369  Bldg. No. 446	Onan Emergency Engine, constructed 2009 (PTE < 15 tpy; MRC ≥ 3 MMBTU/hr)	None	Collateral Conditions in Permit No. 070-0283 RCSA §22a-174-22e 40 CFR Part 60 Subpart IIII 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
GEU-6 Bldg. No. 29	Two Caterpillar C27 non-emergency diesel engines	Oxidation Catalyst	Permit No. 070-0285 Permit No. 070-0286

## Section II: Emissions Units Information

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order or Regulation Number</b>
	(EU-448, EU-449)		RCSA §22a-174-22e 40 CFR Part 60 Subpart IIII 40 CFR Part 63 Subpart ZZZZ
GEU-13 Bldg. No. 29	Two 5500 kW Rolls-Royce/Bergen Combined Heat and Power (CHP) Generators Constr. 2021 (EU-507, EU-508)	Selective Catalytic Reduction (SCR) Oxidation Catalyst	Permit No. 070-0292 Permit No. 070-0293 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
GEU-82	Miscellaneous Emergency Engines (PTE ≤ 15tpy)  (Various EU – see Section III.D of this Title V permit)	None	40 CFR Part 60 Subpart IIII 40 CFR Part 60 Subpart JJJJ 40 CFR Part 63 Subpart ZZZZ
GEU-7	Miscellaneous Cold Solvent Cleaners	None	RCSA §22a-174-20(l)
EU-126 Bldg. No. 174	Nordson electrostatic powder paint system-Coating Operation for Miscellaneous Metal Parts	HEPA filters	Consent Order No. 8049 RCSA §22a-174-3b(g) RCSA §22a-174-20(s)
GEU-9 Pier 13 Bldg. Nos. 1 and 456	Coating Operations for Non-Metal Parts  (EU-162, 398)	HEPA filters	RCSA §22a-174-3b(g) 40 CFR Part 63 Subpart II
GEU-10 Bldg. No. 40	Coating Operations for Miscellaneous Metal Parts  (EU-238, 239, 240, 296, 391, 256, 457)	HEPA filters	Consent Order No. 8049 RCSA §22a-174-20(s)
GEU-11	Coating Operations subject to Ship Building and Repair NESHAP  (EU-241, 285)	None	40 CFR Part 63 Subpart II
EU-131 Bldg. No. 174	Abrasive Blast Booth	HEPA Filter	Permit No. 070-0231

## Section II: Emissions Units Information

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order or Regulation Number</b>
GEU-81 Bldg. No. 428	Gasoline Dispensing and 2 Underground Gasoline Storage Tanks	Stage I Vapor Recovery System	RCSA §22a-174-30a

### B. OPERATING SCENARIO IDENTIFICATION

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

<b>Table II.B: OPERATING SCENARIO IDENTIFICATION</b>	
<b>Emissions Units Associated with the Scenario</b>	<b>Description of Scenario</b>
EU-386, EU-416:	Boilers combust natural gas and ULSD and employ ultra-low NOx burners to limit NOx emissions. EU-386 and EU-416 units provide space heat and hot water supply throughout the facility.
EU-506	Boiler combusts Natural Gas or ULSD and employs low NOx duct burner and flue gas recirculation to provide space heat, domestic hot water and process steam.
GEU-6	Two Non-Emergency engines that combust ULSD to provide electricity.
GEU-13	Two (CHP) Combined Heat and Power Lean Burn Internal Combustion Engines combust natural gas to provide steam and power.
GEU-3, GEU-4, GEU-5, GEU-82, EU-369	Emergency engines combust ULSD, natural gas and/or liquid petroleum gas (LPG) to provide power for emergency purposes only.
GEU-7	Cold cleaners use miscellaneous solvent cleaners to clean metal parts in accordance with RCSA §22a-174-20(l).
EU-126, GEU-10	Spray booths use paints and powder coating to coat miscellaneous metal parts in accordance with RCSA §22a-174-20(s) and use HEPA filters to control particulate emissions.
GEU-9	Spray booths coat non-metal (including fiberglass) parts in accordance with the Shipbuilding and Repair NESHAP and use HEPA filters to control particulate emissions.
GEU-11	Miscellaneous coating operation coats ships in accordance with the Shipbuilding and Repair NESHAP.

## Section II: Emissions Units Information

<b>Table II.B: OPERATING SCENARIO IDENTIFICATION</b>	
<b>Emissions Units Associated with the Scenario</b>	<b>Description of Scenario</b>
EU-131	Abrasive blast booth uses steal grit and aluminum oxide to remove paint from ships and uses HEPA filters to control PM emissions.
GEU-81	Gasoline dispensing operations and two underground gasoline storage tanks dispense and store gasoline at the facility. The gasoline dispensing operations utilize a Stage 1 Vapor Recovery system in accordance with RCSA §22a-174-30a.

### Section III: Applicable Requirements and Compliance Demonstration

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

#### A. GROUPED EMISSIONS UNIT (GEU-12):

**EMISSIONS UNITS 386 AND 416 (EU-386 and EU-416): Cleaver Brooks Boilers 1S and 4; Permit Nos. 070-0279 and 070-0283; Constructed 2011**

**EMISSIONS UNIT 506 (EU-506): 1200 hp (52 MMBtu/hr) Natural gas and ULSD fired firetube boiler; Permit No. 070-0291; Constructed 2021**

**NSPS for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60 Subpart Dc; NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63 Subpart DDDDD (New unit, Gas 1 Subcategory), RCSA §22a-174-22e**

The Permit conditions in Section III.A. of this Title V Permit shall apply to all units in GEU-12 unless specified otherwise:

#### 1. Fuel Use and Operating Restrictions

##### a. Limitation or Restriction (each unit)

##### i. Allowable Fuels:

- (A) EU-386, EU-416 : Natural Gas; No. 2 Fuel Oil [P070-0279, P070-0283]
- (B) EU-506: Natural Gas; Ultra-Low Sulfur Distillate Fuel (ULSD) [P070-0291]

##### ii. Maximum Fuel Firing Rate:

- (A) EU-386, EU-416: [P070-0279, P070-0283]
  - (1) Natural Gas: 48.99 mcf/hr @ 1000 Btu/cf
  - (2) No. 2 Fuel Oil: 349.9 gal/hr @ 140,000 Btu/gal
- (B) EU-506: [P070-0291]
  - (1) Natural Gas: 51.98 mcf/hr @ 1000 Btu/cf
  - (2) ULSD: 350.9 gal/hr @ 140,000 Btu/gal

##### iii. Maximum Gross Heat Input (MMBtu/hr):

- (A) EU-386, EU-416: [P070-0279, P070-0283]
  - (1) Natural Gas and No. 2 Fuel Oil: 48.99
- (B) EU-506: [P070-0291]
  - (1) Natural Gas: 51.98 @ 1000 Btu/cf
  - (2) ULSD: 49.13 @ 140,000 Btu/gal

##### iv. Maximum Fuel Consumption over any Consecutive 12 Month Period

- (A) EU-386, EU-416: [P070-0279, P070-0283]
  - (1) Natural Gas (MMcf): (429.135 MMcf – [0.00014 x Annual Fuel Oil Consumed in gallons])
  - (2) No. 2 Fuel Oil (gallons): 251,938

### Section III: Applicable Requirements and Compliance Demonstration

- (B) EU-506: [P070-0291]
    - (1) Natural Gas (MMcf): 455.345
    - (2) ULSD (gallons): 252,669
  - v. Maximum Fuel Oil Sulfur Content (% by weight, dry basis): 0.0015 [P070-0291, RCSA §22a-174-19b(d)]
  - vi. The Permittee shall operate and maintain the units in accordance with the manufacturer's specifications and written recommendations. [P070-0291, P070-0279, P070-0283]
  - vii. The Permittee shall properly operate the control equipment for EU-506 at all times that this equipment is in operation and emitting air pollutants. [P070-0291]
- b. *Monitoring Requirements*
- i. The Permittee shall use non-resettable totalizing fuel metering devices to continuously monitor fuel feed for each type of fuel, natural gas and ULSD or No. 2 Fuel Oil as permitted, to each permitted source. [P070-0291, P070-0279, P070-0283]
  - ii. The Permittee shall conduct inspections and tune-ups in accordance with RCSA §22a-174-22e(i). [RCSA §22a-174-22e(i)]
  - iii. The Permittee shall perform inspections of the burners and flue gas recirculation system as applicable, as recommended by the manufacturer. [P070-0291, RCSA §22a-174-22e(i), RCSA §22a-174-33(j)(l)(K)(ii)]
  - iv. Record keeping specified in Section III.A.1.c of this Title V permit concerning fuel sulfur content shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]
- c. *Record Keeping Requirements*
- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for each fuel. 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. [P070-0291, P070-0279, P070-0283, 40 CFR §60.48c(g)(2)]
  - ii. The Permittee shall make and keep records of all ULSD and No. 2 oil firing as permitted and shall keep records of monthly, cumulative monthly, and calendar year hours of operation on the applicable fuel during periods of periodic testing of the applicable fuel, maintenance, or operator training. The cumulative monthly records shall be determined by adding the current month's hours to the hours of the previous months in such calendar year. The Permittee shall make these calculations within 30 days of the end of the previous month. The records shall contain the following information: [P070-0291, 40 CFR §63.7555(h)]
    - (A) Hours of operation;
    - (B) Reason for operation; and
    - (C) Notice of natural gas curtailment from fuel supplier, if applicable.
  - iii. The Permittee shall keep records of the fuel certification for each delivery of ULSD or No. 2 fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by this equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include, as appropriate, the date of delivery, the

### Section III: Applicable Requirements and Compliance Demonstration

name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c and the method used to determine the sulfur content of such fuel. [P070-0291, P070-0279, P070-0283, RCSA §22a-174-19b(g)(3), 40 CFR §60.48c(e)(11)]

- iv. The Permittee shall keep records of all maintenance and tune-up activities for these units. The permittee shall keep the following records for all tune-ups: [P070-0291, RCSA §22a-174-22e(j)(2)(B) and (E)]
  - (A) The date on which the emission unit is tuned-up; the name, title and affiliation of the person performing the tune-up, and a description of work performed;
  - (B) The procedures used to inspect and perform adjustments; and
  - (C) The date and work performed for repairs, replacement of parts and other maintenance.
- v. The Permittee shall make and keep records of all maintenance and inspections of the boilers, including of the burners and flue gas recirculation system as applicable. The permittee shall keep the following records: [P070-0291, P070-0279, P070-0283, RCSA §22a-174-33(j)(l)(K)(ii)]
  - (A) The name of the inspector;
  - (B) The date; and
  - (C) The results or actions.
- vi. The Permittee shall keep records of manufacturer written specifications and recommendations for operation and maintenance. [P070-0291, RCSA §22a-174-33(j)(l)(K)(ii)]

#### d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any malfunction of the air pollution control equipment for EU-506. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P070-0291]
  - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
  - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- ii. The Permittee shall submit notifications as required by 40 CFR §60.7 and 40 CFR §60.48c(a).
- iii. The Permittee shall submit all applicable reports pursuant to 40 CFR §60.48c(d) and (e).
- iv. The Permittee shall submit semi-annual reports to the Administrator. Each subsequent semi-annual report shall be postmarked by the 30<sup>th</sup> day following the end of the reporting period. [40 CFR §60.48c(j)]
- v. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

## 2. Pollutant Emissions

### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emissions for EU-386, EU-416 and EU-506 when firing Natural Gas:

### Section III: Applicable Requirements and Compliance Demonstration

- (A) PM:
    - (1) EU-386 and EU-416: 0.37 lb/hr [P070-0279, P070-0283]
  - (B) PM<sub>10</sub>:
    - (1) EU-386 and EU-416: 0.37 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.0076 lb/MMBtu [P070-0291]
  - (C) PM<sub>2.5</sub>:
    - (1) EU-386 and EU-416: 0.37 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.0076 lb/MMBtu [P070-0291]
  - (D) SO<sub>2</sub>:
    - (1) EU-386 and EU-416: 0.08 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.0015 lb/MMBtu [P070-0291]
  - (E) NO<sub>x</sub>:
    - (1) EU-386 and EU-416: [P070-0279, P070-0283]
      - (a) 0.52 lb/hr
    - (2) EU-506: [P070-0291]
      - (a) 0.011 lb/MMBtu
      - (b) 9 ppm @ 3% O<sub>2</sub>
    - (3) GEU-12:
      - (a) 0.05 lb/MMBtu, (daily block average) [RCSA §22a-174-22e(d)(3)(C)]
  - (F) VOC:
    - (1) EU-386 and EU-416: 0.27 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.006 lb/MMBtu [P070-0291]
  - (G) CO:
    - (1) EU-386 and EU-416: 1.79 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: [P070-0291]
      - (a) 0.037 lb/MMBtu
      - (b) 50 ppm @ 3% O<sub>2</sub>
  - (H) Pb:
    - (1) EU-386 and EU-416: 2.45E-05 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 5.0E-07 lb/MMBtu [P070-0291]
- ii. The Permittee shall not exceed the following emissions for EU-386 and EU-416 when using No. 2 fuel oil, and EU-506 when using ULSD:
- (A) PM:
    - (1) EU-386 and EU-416: 1.22 lb/hr [P070-0279, P070-0283]

### Section III: Applicable Requirements and Compliance Demonstration

- (B) PM<sub>10</sub>:
    - (1) EU-386 and EU-416: 1.22 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.030 lb/MMBtu [P070-0291]
  - (C) PM<sub>2.5</sub>:
    - (1) EU-386 and EU-416: 1.22 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.030 lb/MMBtu [P070-0291]
  - (D) SO<sub>2</sub>:
    - (1) EU-386: 2.48 lb/hr (P070-0279)
    - (2) EU-416: 2.52 lb/hr (P070-0283)
    - (3) EU-506: 0.0015 lb/MMBtu [P070-0291]
  - (E) NO<sub>x</sub>:
    - (1) EU-386 and EU-416: [P070-0279, P070-0283]
      - (a) 7.80 lb/hr
      - (b) 119 ppm
    - (2) EU-506: [P070-0291]
      - (a) 0.09 lb/MMBtu
      - (b) 70 ppm @ 3% O<sub>2</sub>
    - (3) GEU-12:
      - (a) 0.10 lb/MMBtu, (daily block average), Other oil-fired [RCSA §22a-174-22e(d)(3)(C)]
  - (F) VOC:
    - (1) EU-386 and EU-416: 0.12 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 0.0014 lb/MMBtu [P070-0291]
  - (G) CO:
    - (1) EU-386 and EU-416: 1.90 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: [P070-0291]
      - (a) 0.039 lb/MMBtu
      - (b) 50 ppm @ 3% O<sub>2</sub>
  - (H) Pb:
    - (1) EU-386 and EU-416: 4.41E-04 lb/hr [P070-0279, P070-0283]
    - (2) EU-506: 9.0E-06 lb/MMBtu [P070-0291]
- iii. The Permittee shall not exceed the following emissions for each unit, EU-386, EU-416 and EU-506 (tons/yr):
- (A) PM:

### Section III: Applicable Requirements and Compliance Demonstration

- (1) EU-386 and EU-416: 1.94 [P070-0279, P070-0283]
  - (B) PM<sub>10</sub>:
    - (1) EU-386 and EU-416: 1.94 [P070-0279, P070-0283]
    - (2) EU-506: 2.1 [P070-0291]
  - (C) PM<sub>2.5</sub>:
    - (1) EU-386 and EU-416: 1.94 [P070-0279, P070-0283]
    - (2) EU-506: 2.1 [P070-0291]
  - (D) SO<sub>2</sub>:
    - (1) EU-386 and EU-416: 1.21 [P070-0279, P070-0283]
    - (2) EU-506: 0.34 [P070-0291]
  - (E) NO<sub>x</sub>:
    - (1) EU-386 and EU-416: 4.90 [P070-0279, P070-0283]
    - (2) EU-506: 4.1 [P070-0291]
  - (F) VOC:
    - (1) EU-386 and EU-416: 1.18 [P070-0279, P070-0283]
    - (2) EU-506: 1.4 [P070-0291]
  - (G) CO:
    - (1) EU-386 and EU-416: 7.87 [P070-0279, P070-0283]
    - (2) EU-506: 8.1 [P070-0291]
  - (H) Pb:
    - (1) EU-386 and EU-416: 2.57E-04 [P070-0279, P070-0283]
    - (2) EU-506: 2.64E-04 [P070-0291]
- iv. The owner or operator of an emission unit that is capable of firing two or more fuels for which a standard is designated in Part III.A.2.a of this Title V permit shall not cause or allow emissions of NO<sub>x</sub> from such emission unit in excess of the following:
- (A) For fuel-burning equipment that simultaneously fires two or more fuels, an emissions limitation calculated by:
    - (1) Multiplying the heat input of each fuel combusted by the emissions limitation in Part III.A.2.a of this Title V permit for the particular emission unit and fuel used;
    - (2) Summing those products; and
    - (3) Dividing the sum by the total heat input; or
  - (B) For fuel-burning equipment that is capable of interchangeably firing two or more fuels, the emissions limitation in this subsection for the particular equipment and fuel used.  
[RCSA §22a-174-22e(d)(10)]

### Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29. [P070-0291, P070-0279, P070-0283] [STATE ONLY REQUIREMENT]
- b. *Monitoring Requirements*
- i. The Permittee shall conduct recurrent testing for opacity as requested by the administrator in accordance with 40 CFR §60.47c(a)(1). [40 CFR 60.45c(a), 60.47c(a)(1), P070-0291]
  - ii. The Permittee shall conduct recurrent NO<sub>x</sub> emission testing within five years from the date of the previous stack test. [RCSA §22a-174-22e(l), P070-0291, P070-0279, P070-0283]
  - iii. Demonstration of compliance with the above emission limits for EU-386 and EU-416 shall be met by calculating the emission rates using emission factors from the following sources: [P070-0279, P070-0283]
    - (A) PM/PM<sub>10</sub>/PM<sub>2.5</sub> (oil), NO<sub>x</sub>, CO: Manufacturer's Data
    - (B) SO<sub>2</sub> (gas): Manufacturer's Data; SO<sub>2</sub> (oil): AP-42
    - (C) PM/PM<sub>10</sub>/PM<sub>2.5</sub> (gas), VOC, Pb: AP-42
  - iv. Demonstration of compliance with the above emission limits for EU-506 shall be met by calculating the emission rates using emission factors from the following sources: [P070-0291]
    - (A) VOC, SO<sub>2</sub>, PM<sub>10/2.5</sub> (gas), Pb: AP-42 Fifth Edition Volume I, Chapter 1.4, Table 1.4-2
    - (B) CO, PM<sub>10/2.5</sub> (oil): Guaranteed Vendor Emissions Factor
    - (C) NO<sub>x</sub>: Latest Stack Test Data
  - v. The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation. [P070-0291, P070-0279, P070-0283]
  - vi. Record keeping specified in Section III.A.2.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]
- c. *Record Keeping Requirements*
- i. The Permittee shall comply with the applicable record keeping requirements specified in RCSA §22a-174-22e(j) for NO<sub>x</sub> emissions. [P070-0291, P070-0279, P070-0283]
  - ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM<sub>10</sub>/PM<sub>2.5</sub>, 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. [P070-0291, P070-0279, P070-0283, RCSA §22a-174-33(j)(l)(K)(ii)]
- d. *Reporting Requirements*
- i. The Permittee shall comply with the applicable reporting requirements of RCSA §22a-174-22e(k). [P070-0291, RCSA §22a-174-22e(k)]

### Section III: Applicable Requirements and Compliance Demonstration

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

#### 3. Opacity

##### a. Limitation or Restriction

- i. The Permittee shall not cause any emissions into the atmosphere that exhibit greater than:
  - (A) EU-386 and EU-416: Twenty percent opacity (six-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR §60.43c(c)]
    - (1) For the purposes of 40 CFR Part 60 Subpart Dc, the opacity standards under 40 CFR §60.43c apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR §60.43c(d)]
  - (B) EU-386 and EU-416: Twenty percent opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9; or Forty percent opacity as measured by 40 CFR Part 60 Appendix A, Reference Method 9, reduced to a one-minute block average. [P070-0279, P070-0283]
  - (C) EU-506: Ten percent opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P070-0291]

##### b. Monitoring Requirements

- i. The Permittee shall comply with applicable procedures in 40 CFR §60.48c(c).
- ii. Record keeping specified in Section III.A.3.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

- i. The Permittee shall comply with applicable recordkeeping requirements in accordance with 40 CFR §60.48c. [P070-0291, 40 CFR §60.48c]
- ii. The Permittee shall maintain records sufficient to determine compliance with the limitations or restrictions in Section III.A.3.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

##### d. Reporting Requirements

- i. The Permittee shall comply with applicable reporting requirements in accordance with 40 CFR §60.48c. [P070-0291, 40 CFR §60.48c]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 4. National Emission Standards (NESHAP) for Hazardous Air Pollutants: Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63 Subpart DDDDD, New Unit Gas 1 Subcategory

##### a. Limitation or Restriction

- i. The Permittee shall operate GEU-12 in accordance with the definition of a *Unit designed to burn gas 1 subcategory* pursuant to 40 CFR §63.7575. [40 CFR §63.7575]

### Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall conduct annual tune-ups to GEU-12 in accordance with 40 CFR §63.7540(a)(10), as applicable. The Permittee shall conduct annual tune-ups no more than 13 months after the previous tune-up. [40 CFR §63.7515(d); RCSA §22a-174-22e(i)(2)]
- iii. The Permittee shall operate and maintain this equipment, 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. [P070-0291, 40 CFR §63.7500(a)(3)]
- iv. The Permittee shall comply with the applicable General Provisions in 63.1 through 63.15 in 40 CFR 63 Subpart DDDDD, Table 10. [40 CFR §63.7565]

#### b. Monitoring Requirements

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

#### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the tune-ups in accordance with 40 CFR §63.7540(a)(10)(vi) and RCSA §22a-174-22e(j)(2)(E). [P070-0291, §§63.7540(a)(10)(vi), RCSA §22a-174-22e(j)(2)(E)]
- ii. The Permittee shall keep the following records: [40 CFR §63.7555(a)]
  - (A) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in § 63.10(b)(2)(xiv).
  - (B) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in § 63.10(b)(2)(viii).
- iii. The Permittee shall keep records sufficient to demonstrate compliance with the requirements of 40 CFR §63.7565. [RCSA §22a-174-33(j)(l)(K)(ii)]

#### d. Reporting Requirements

- i. The permittee shall submit all applicable notifications in accordance with 40 CFR §63.7545 according to the schedule in 40 CFR §63.7545 and in 40 CFR 63 Subpart A. [40 CFR §63.7495(d)]
- ii. The Permittee shall comply with all applicable reporting requirements in 40 CFR §63.7550.

### **B. GROUPED EMISSIONS UNIT 3 (GEU-3) – Miscellaneous Emergency Engines, with heat input less than 3 MMBtu/hr, Subject to RCSA §22a-174-3b(e)**

The following engines have been identified as being part of GEU-3 as of the issuance of this Title V permit (Application No. 202304120):

EU-157 (150 kW Stanford-Newage DS150M, constructed 1999)  
EU-219 (200 kW Cummins CC3340D, constructed 1989)  
EU-221 (125 kW Onan 125DGEA, constructed 1993)  
EU-225 (200 kW Caterpillar D200P4, constructed 2005)  
EU-226 (200 kW Caterpillar D200P4, constructed 2005)  
EU-253 (250 kW Caterpillar 3306, constructed 2007)  
EU-258 (260 kW Kohler 250REOZDB, constructed 2005)  
EU-424 (154 kW Kohler 150REOZJF, constructed 2012)

### Section III: Applicable Requirements and Compliance Demonstration

Any other engine that is identified as part of GEU-3 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below.

#### 1. Operational Conditions

##### a. Limitation or Restriction

- 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)(A)] [STATE ONLY REQUIREMENT]
- ii. Any nongaseous fuel consumed by GEU-3 shall comply with the fuel sulfur content requirements of RCSA Section 22a-174-19b(d)(2).  
[RCSA §22a-174-3b(e)(2)(B)] [STATE ONLY REQUIREMENT]
- iii. The Permittee shall properly maintain and operate GEU-3.  
[RCSA §22a-174-3b(e)(1)] [STATE ONLY REQUIREMENT]

##### b. Monitoring 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

- i. 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)]  
[STATE ONLY REQUIREMENT]
- ii. Records sufficient to demonstrate compliance with Section III.B.1.a.ii of this Title V permit are those records specified in RCSA Section 22a-174-19b(g)(3).  
[RCSA §22a-174-3b(h)] [STATE ONLY REQUIREMENT]

##### d. Reporting Requirements

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

#### C. GROUPED EMISSIONS UNIT 4 (GEU-4) – Miscellaneous Emergency Engines, with heat input greater than or equal to 3 MMBtu/hr, Subject to RCSA §§22a-174-3b(e) and 22a-174-22e

The following engines have been identified as being part of GEU-4 as of the issuance of this Title V permit (Application No. 202304120):

- EU-222 (400 kW Caterpillar 3406, constructed 1998)
- EU-223 (650 kW Cummins KTA 2300-G, constructed 1978)
- EU-224 (668 kW Caterpillar 3412, constructed 2004)
- EU-415 (230 kW Cummins DSHAD-1205020, constructed 2012)
- EU-501 (300 kW Caterpillar C9 ACERT, constructed 2019)

Any other engine that is identified as part of GEU-4 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below

## Section III: Applicable Requirements and Compliance Demonstration

### 1. Operational Conditions

#### a. Limitation or Restriction

- 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)(A)] [STATE ONLY REQUIREMENT]
- ii. Any nongaseous fuel consumed by GEU-4 shall comply with the fuel sulfur content requirements of RCSA Section 22a-174-19b(d)(2). [RCSA §22a-174-3b(e)(2)(B)] [STATE ONLY REQUIREMENT]
- iii. The Permittee shall properly maintain and operate GEU-4. [RCSA §22a-174-3b(e)(1)] [STATE ONLY REQUIREMENT]
- iv. Except for EU-224, The Permittee shall not operate GEU-4 for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups” or greater. If, subsequent to the initial forecast of “moderate to unhealthy for sensitive groups” or greater, the forecast is revised to “moderate” or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. An owner or operator of an emergency engine may rely on an ozone forecast of “moderate” or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of “moderate to unhealthy for sensitive groups” or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine from this subdivision if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location.  
  
Note: EU-224 is exempt from this requirement pursuant to RCSA §22a-174-22e(c)(3)(B). [RCSA §22a-174-22e(d)(14)]

#### b. Monitoring 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

- i. 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)] [STATE ONLY REQUIREMENT]
- ii. Records sufficient to demonstrate compliance with Section III.C.1.a.ii of this Title V permit are those records specified in RCSA 22a-174-19b(g)(3). [RCSA §22a-174-3b(h)] [STATE ONLY REQUIREMENT]
- iii. The Permittee shall comply with the applicable record keeping requirements for each engine in accordance with RCSA §22a-174-22e(j)(2). [RCSA §22a-174-22e(j)(2)]

#### d. Reporting Requirements

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

### Section III: Applicable Requirements and Compliance Demonstration

#### D. GROUPED EMISSIONS UNITS 5 and 82: Miscellaneous Emergency Engines, 40 CFR Part 63 Subpart ZZZZ; not subject to RCSA §§22a-174-3a or 22a-174-22c

##### Grouped Emissions Unit 5 (GEU-5): Collateral Conditions in Permit No. 070-0279

The following engines have been identified as being part of GEU-5 as of the issuance of this Title V permit (Application No. 202304120):

- EU-368 (100 kW Generac Model 4.5DTA SD100, constructed 2009)
- EU-392 (15 kW Kohler Model 15ROY/ROZ, constructed 2009)
- EU-393 (15 kW Kohler Model 15ROY/ROZ, constructed 2009)
- EU-384 (200 kW Cummins Model DSHAC-1838029, constructed 2009)
- EU-272 (80 kW Cummins Model DGDA-5770322, constructed 2007)
- EU-273 (80 kW Cummins Model DGCG, constructed 2007)

Any other engine that is identified as part of GEU-5 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below

##### Grouped Emissions Unit 82 (GEU-82):

The following engines have been identified as being part of GEU-82 as of the issuance of this Title V permit (Application No. 202304120):

- EU-047 (25 kW Onan Model 25DKAF, construction unknown)
- EU-049 (20 kW Kohler Model 20ROZJ61, constructed 1993)
- EU-109 (30 kW Onan Model 30.0DL6-15R, constructed 1988)
- EU-158 (30 kW Superior Model R-30-161, constructed 1996)
- EU-168 (250 hp Ingersol-Rand Model P-750-W-CU-DCSC, constructed 1998)
- EU-227 (60 kW Kato Light Model D75FPD4, construction unknown)
- EU-228 (60 kW Kohler Model 60ROZJ, constructed 1998)
- EU-234 (73 hp GS Aurora Model PDFP-I4YT, constructed 1998)
- EU-246 (150kW Kohler Model 150REOZJB, constructed 2003)
- EU-254 (150kW Detroit Diesel Model 150DSEJB, constructed 2005)
- EU-397 (100kW Generac Model SD100, constructed 2011)
- EU-399 (177 kW Kohler Model 150REOZJE, constructed 2012)
- EU-447 (157 kW Cummins GGPA-1328440, constructed 2013)
- EU-455 (102 kW Kohler Model 100ROZJF, constructed 2013)
- EU-456 (51.4 kW Cummins Model DGHCA, constructed 2014)
- EU-467 (15kW Generac Model 990, constructed 2014)
- EU-515 (50 kW Cummins Model 4BTAA3.3-G7, constructed 2022)
- EU-516 (17 kW Kohler Model 15REOZK, constructed 2023)
- EU-517 (17 kW Kohler Model 15REOZK, constructed 2023)

Any other engine that is identified as part of GEU-82 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below

#### 1. Collateral Conditions for GEU-5 Emergency Engines, only

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

The Permittee shall not operate any engine in GEU-5 more than 300 hours per year.  
[P070-0279]

##### b. *Monitoring Requirements*

The Permittee shall continuously monitor the monthly and consecutive 12 month hours of operation for each of the EU identified in GEU-5 of this Title V permit.  
[P070-0279]

### Section III: Applicable Requirements and Compliance Demonstration

*c. Record Keeping Requirements*

- i. The Permittee shall continuously record the monthly and consecutive 12 month hours of operation for each of the EU identified in GEU-5 of this Title V permit. The consecutive 12 month hours of operation shall be determined by adding the current month's hours of operation to that of the previous 11 months. The Permittee shall make these calculations monthly. [P070-0279]
- ii. The Permittee shall make and keep records of the inspection and maintenance of each of the EU identified in GEU-5 of this Title V permit. The records shall include the name of the inspector or person conducting the maintenance, the date of inspection or maintenance, and the results or actions. [P070-0279]

*d. Reporting Requirements*

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

#### **E. EMISSIONS UNIT 369 (EU-369): Onan DQHBAB-666135 Emergency Engine; Subject to 40 CFR Part 63 Subpart ZZZZ and RCSA §22a-174-22e; Collateral Conditions in Permit No. 070-0283**

##### **1. Collateral Conditions**

*a. Limitation or Restriction*

The Permittee shall not operate EU-369 more than 300 hours per year. [P070-0283]

*b. Monitoring Requirements*

The Permittee shall continuously monitor the monthly and consecutive 12 month hours of operation for EU-369. [P070-0283]

*c. Record Keeping Requirements*

- i. The Permittee shall continuously record the monthly and consecutive 12 month hours of operation for EU-369. The consecutive 12 month hours of operation shall be determined by adding the current month's hours of operation to that of the previous 11 months. The Permittee shall make these calculations monthly. [P070-0283]
- ii. The Permittee shall make and keep records of the inspection and maintenance of EU-369. The records shall include the name of the inspector or person conducting the maintenance, the date of inspection or maintenance, and the results or actions. [P070-0283]

*d. Reporting Requirements*

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

##### **2. Operational Conditions**

*a. Limitation or Restriction*

- i. The owner or operator of an emergency engine shall not operate the emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone

### Section III: Applicable Requirements and Compliance Demonstration

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

- ii. The Permittee shall comply with the applicable tune-up requirements in accordance with RCSA §22a-174-22e(i). [RCSA §22a-174-22e(i)]

#### *b. Monitoring Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep the following records:
  - (A) Records required by 40 CFR 63.6655. [RCSA §22a-174-22e(j)(2)(A)]
  - (B) The date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
  - (C) The Permittee shall keep the following records for each tune-up required in Section III.E.2.a.ii of this Title V permit: [RCSA §22a-174-22e(j)(2)(E)]
    - (1) The date on which EU-369 is tuned-up, the name, the title and affiliation of the person performing the tune-up, and a description of work performed, and
    - (2) The procedures used to inspect and perform adjustments.
  - (D) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]
  - (E) Any other records or reports required by an order or permit issued by the commissioner. [RCSA §22a-174-22e(j)(2)(G)]

#### *d. Reporting Requirements*

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

### **F. GROUPED EMISSIONS UNIT 6 (GEU-6): 40 CFR Part 60 Subpart IIII, 40 CFR Part 63 Subpart ZZZZ; (non-emergency engine), greater than 500 bhp; RCSA §22a-174-22e**

**Two Caterpillar C27 Diesel Generator Sets; Permit Nos. 070-0285 and 070-0286**

**EU-449 (West Generator #1)**

**EU-448 (East Generator #2)**

### Section III: Applicable Requirements and Compliance Demonstration

Any other engine that is identified as part of GEU-6 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below

#### 1. Fuel Use, Hours of Operation, and Operating Conditions

##### a. Limitation or Restriction (each unit)

- i. Allowable Fuel: Distillate [P070-0285, P070-0286]
- ii. Maximum Fuel Firing Rate: 53.2 gal/hr [P070-0285, P070-0286]
- iii. Maximum Heat Input: 7.29 MMBtu/hr @ 137,000 BTU/gal [P070-0285, P070-0286]
- iv. Maximum Hours of Operation over any Consecutive 12 Month Period: 500 [P070-0285, P070-0286]
- v. Maximum Fuel Sulfur Content (% by weight, dry basis): 0.0015 [P070-0285, P070-0286]
  - (A) The Permittee must use diesel fuel that meets the requirements found in 40 CFR §1090.305 for GEU-6. [40 CFR §63.6604(a)]
- vi. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [P070-0285, P070-0286]
- vii. The Permittee shall comply with the applicable tune-up requirements in accordance with RCSA §22a-174-22e(i). [RCSA §22a-174-22e(i)]

##### b. Monitoring Requirements

- i. The Permittee shall continuously monitor hours of operation for each unit in GEU-6 using a non-resettable totalizing hour meter. [P070-0285, P070-0286]
- ii. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the engine. [P070-0285, P070-0286]
- iii. Record keeping specified in Section III.F.1.c of this Title V permit concerning fuel sulfur content shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]

##### c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12-month hours of operation. The consecutive 12-month hours of operation shall be determined by adding the current month's operating hours to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P070-0285, P070-0286]
- ii. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include, as appropriate, 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. [P070-0285, P070-0286]
- iii. The Permittee shall maintain, for the life of the equipment, all manufacturer's specifications and written recommendations for the operation and maintenance of this equipment. [P070-0285, P070-0286]
- iv. The Permittee shall keep records of the occurrence and duration of any malfunction in the operation of this equipment or any periods during which a monitoring device is inoperative

### Section III: Applicable Requirements and Compliance Demonstration

Such records shall contain the following information: [P070-0285, P070-0286]

- (A) Type of event;
- (B) Part of equipment affected;
- (C) Date of event;
- (D) Duration of event (minutes)

*d. Reporting Requirements*

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

#### 2. Pollutant Emissions

*a. Limitation or Restriction*

i. The Permittee shall not exceed the following emissions for each unit (lb/hr): [P070-0285, P070-0286]

- (A) PM: 0.27
- (B) PM<sub>10</sub>: 0.27
- (C) PM<sub>2.5</sub>: 0.27
- (D) SO<sub>2</sub>: 0.01
- (E) NO<sub>x</sub>: 5.57
  - (1) 2.37 gm/bhp-hr
  - (2) Less than or equal to 2.3 gm/bhp-hr [RCSA §22a-174-22e(d)(6)(B)]
- (F) VOC: 0.41
- (G) CO: 2.35

ii. The Permittee shall not exceed the following emissions for each unit (tons per 12 consecutive months): [P070-0285, P070-0286]

- (A) PM: 0.07
- (B) PM<sub>10</sub>: 0.07
- (C) PM<sub>2.5</sub>: 0.07
- (D) SO<sub>2</sub>: 0.003
- (E) NO<sub>x</sub>: 1.39
- (F) VOC: 0.10
- (G) CO: 0.59

iii. The Permittee shall not cause an exceedance or the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29. [P070-0285, P070-0286] [STATE ONLY REQUIREMENT]

iv. The Permittee shall not cause the opacity from the operation of any unit to exceed: [P070-0285, P070-0286]

### Section III: Applicable Requirements and Compliance Demonstration

- (A) 10% during any six-minute block average; or
- (B) 40% reduced to a one-minute block average, as measured by 40 CFR Part 60, Appendix A, Reference Method 9.

#### *b. Monitoring Requirements*

- i. Demonstration of compliance with the emission limits in Section III.F.2.a.i of this Title V permit shall be met using emission factors from the following sources:  
[P070-0285, P070-0286]
  - (A) PM/PM<sub>10</sub>/PM<sub>2.5</sub>/VOC: Manufacturer's Data
  - (B) PM<sub>10</sub>/PM<sub>2.5</sub> Condensable: AP-42, Fifth Edition, Table 3.4-2
  - (C) NO<sub>x</sub>, CO: Stack Emission Test
    - (1) Recurrent testing for NO<sub>x</sub> shall be conducted within 5 years from the date of the previous stack test or, if applicable, in accordance with the testing schedule set forth in RCSA §22a-174-22e.
    - (2) Recurrent stack testing for CO shall be conducted pursuant to 40 CFR §63.6615.
    - (3) The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation.
  - (D) SO<sub>2</sub>: AP-42, Fifth Edition, Table 3.4-1
- ii. The Permittee shall conduct emissions testing in accordance with RCSA §22a-174-22e(l).  
[RCSA §22a-174-22e(l)]
- iii. Record keeping specified in Section III.F.2.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall calculate and record the monthly and consecutive 12-month PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.  
[P070-0285, P070-0286]
- ii. The Permittee shall make and keep the following records:
  - (F) The date and work performed for repairs, replacement of parts and other maintenance.  
[RCSA §22a-174-22e(j)(2)(B)]
  - (G) Records of the dates and times of all emission testing required by Section III.F.2.b.ii of this Title V permit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing.  
[RCSA §22a-174-22e(j)(2)(C)]
  - (H) The Permittee shall keep the following records for each tune-up required in Section III.F.1.a.vii of this Title V permit: [RCSA §22a-174-22e(j)(2)(E)]

### Section III: Applicable Requirements and Compliance Demonstration

- (3) The date on which GEU-6 is tuned-up, the name, the title and affiliation of the person performing the tune-up, and a description of work performed, and
- (4) The procedures used to inspect and perform adjustments.
- (I) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]
- (J) Any other records or reports required by an order or permit issued by the commissioner. [RCSA §22a-174-22e(j)(2)(G)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]
- ii. The Permittee shall notify the commissioner in writing of any malfunction of the engine that has the potential to increase emissions. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P070-0285, P070-0286]
  - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
  - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.

### 3. 40 CFR Part 60 Subpart III Requirements

#### *a. Limitation or Restriction*

- i. The Permittee shall comply with the emission standards in 60.4201(a). [40 CFR §60.4204(b)]
- ii. The Permittee must operate and maintain GEU-6 as to achieve the emission standards as required in 40 CFR §60.4204(b) over the entire life of each engine. [40 CFR §60.4206]
- iii. The Permittee shall use diesel fuel for GEU-6 engines that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel. [40 CFR §60.4207(b)]
- iv. The Permittee must comply with the following except as permitted under 40 CFR §60.4211(g): [40 CFR §60.4211(a)]
  - (A) Operate and maintain the stationary CI 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 part 1068, as they apply to each engine.

#### *b. Monitoring Requirements*

- i. If the Permittee does not install, configure, operate, and maintain each engine and control device according to the manufacturer's emission-related written instructions, or the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance with §40 CFR 60.4211(g) using the methods in §40 CFR 60.4212. [40 CFR §60.4211(g)]

### Section III: Applicable Requirements and Compliance Demonstration

*c. Record Keeping Requirements*

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

*d. Reporting Requirements*

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

#### 4. 40 CFR Part 63 Subpart ZZZZ Requirements, Non-Emergency Engine Requirements, CI >500 bhp

*a. Limitation or Restriction*

i. The Permittee shall:

- (A) Operate GEU-6 in accordance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63 Subpart ZZZZ that apply, at all times; and comply with the applicable requirements found in 40 CFR §§63.1 through 63.15. [40 CFR §§63.6605(a) and 63.6665]
- (B) At all times, operate and maintain GEU-6, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.6605(b)]
- (C) For GEU-6:
  - (1) Reduce CO Emissions by 70 percent or more; or [40 CFR §63.6600(b); Table 2a, Item 3.a.]
  - (2) Limit concentration of formaldehyde in the exhaust to 580 ppbv or less at 15% O<sub>2</sub>. [40 CFR §63.6600(b); Table 2a, Item 3.b.]
- (D) Maintain catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and [40 CFR §63.6600(b); Table 2b, Item 1.a.]
  - (1) Maintain the temperature of the exhaust so that the catalyst inlet temperature for EU-448 is greater than or equal to 382.8°F and less than or equal to 1350°F while in either "emergency mode" or "island mode". Maintain the temperature of the exhaust so that the catalyst inlet temperature for EU-448 is greater than or equal to 450°F and less than or equal to 1350°F while in "baseload mode". Maintain the temperature of the exhaust so that the catalyst inlet temperature for EU-449 is greater than or equal to 388.2°F and less than or equal to 1350°F while in either "emergency mode" or "island mode". Maintain the temperature of the exhaust so that the catalyst inlet temperature for EU-449 is greater than or equal to 450°F and less than or equal to 1350°F while in "baseload mode". The lower range temperatures listed above were established during July 2022 performance testing and approved by EPA in a response to a petition dated February 8, 2022. New lower range temperatures (if below the 450°F listed in 40 CFR Part 63 Subpart ZZZZ) must be established for each subsequent performance test under three power output modes (baseload, emergency, and island). Facility will maintain records indicating future lower range temperatures established during performance testing and maintain the 4-hour rolling average catalyst inlet temperatures within those future

### Section III: Applicable Requirements and Compliance Demonstration

- established ranges. [40 CFR §63.6600(b); Table 2b, Item 1.b. and EPA response to petition dated February 8, 2022]
- (2) Maintain a 4-hour rolling average within the operating limitations for the catalyst inlet temperature in Section III.F.4.a.i.(D)(1) of this Title V permit. [40 CFR §63.6640(a); Table 6, Item 1.a.iv. and Item 7.a.iv.]
  - (E) Minimize each engine's time spent at idle and minimize each engine's startup time at startup to a period needed for appropriate and safe loading of each engine, not to exceed 30 minutes, after which time the non-startup emissions limitations apply. [40 CFR §63.6625(h)]
  - (F) Comply with the requirements in 40 CFR §§63.6625(b)(1) – (6).
- ii. The Permittee must demonstrate initial compliance with the emission limitations, operating limitations, and other requirements in 40 CFR §63.6630 by: [40 CFR §63.6630]
    - (A) Demonstrating initial compliance with each emission limitation, operating limitation, and other requirement that applies to each engine according to Table 5, Items 1 and 9 of 40 CFR Subpart ZZZZ.
    - (B) During the initial performance test, establishing each operating limitation in Table 2b of 40 CFR Subpart ZZZZ that applies to each engine.
  - iii. The Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 2a and 2b of 40 CFR Subpart ZZZZ according to methods specified in Table 6 to this subpart. [40 CFR §63.6640(a)]

#### *b. Monitoring Requirements*

- i. The Permittee shall install, operate, and maintain a continuous parameter monitoring system (CPMS) in accordance with 40 CFR §63.6625(b). [40 CFR §63.6625(b)]
- ii. The Permittee shall continuously monitor catalyst inlet temperature according to the requirements in 40 CFR §63.6625. [40 CFR §63.6625(b); Table 5, Item 1.a.ii and Item 9.a.ii.]
- iii. The Permittee shall comply with the monitoring and data collection in accordance with 40 CFR §63.6635:
  - (A) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that GEU-6 is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure or the monitoring provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 CFR §63.6635(b)]
  - (B) The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods. [40 CFR §63.6635(c)]
- iv. The Permittee shall conduct semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved, or formaldehyde to demonstrate that the required formaldehyde concentration limitation is achieved; as specified in Table 3, Item 1 and 3 of 40 CFR Subpart ZZZZ and in accordance with the requirements in Table 4 of 40 CFR Subpart ZZZZ, and [40 CFR §§63.6615, 63.6620(b); 63.6640(a) and (b), Table 6, Item 1.a.i. and 7.a.i.]
  - (A) Collect the catalyst inlet temperature data according to 40 CFR §63.6625(b); and [40 CFR §63.6640(a); Table 6, Item 1.a.ii. and 7.a.ii.]

### Section III: Applicable Requirements and Compliance Demonstration

- (B) Reduce these data to 4-hour rolling averages; and [40 CFR §63.6640(a); Table 6, Item 1.a.iii. and 7.a.iii.]
- (C) Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. [40 CFR §63.6640(a); Table 6, Item 1.a.v. and 7.a.v.]
- (D) After demonstrating compliance for two consecutive tests, the Permittee may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or the Permittee deviates from any operating limitations, the Permittee must resume semiannual performance tests. [§63.6615; Table 3, Footnote 1]

#### c. Record Keeping Requirements

- i. The Permittee shall keep the following records:
  - (A) A copy of each notification and report that you submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
  - (B) Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
  - (C) Records of performance tests and performance evaluations as required in 40 CFR §63.10(b)(2)(viii). [40 CFR §63.6655(a)(3)]
  - (D) Records of all required maintenance performed on the air pollution and monitoring equipment. [40 CFR §63.6655(a)(4)]
  - (E) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(5)]
- ii. For each CPMS, the Permittee must keep the following records:
  - (A) Records described in 40 CFR §§63.10(b)(2)(vi) through (xi). [40 CFR §63.6655(b)(1)]
  - (B) Previous versions of the performance evaluation plan as required in 40 CFR §63.8(d)(3). [40 CFR §63.6655(b)(2)]
  - (C) Requests for alternatives to the relative accuracy test for CPMS as required in 40 CFR §63.8(f)(6)(i). [40 CFR §63.6655(b)(3)]
  - (D) Records required in 40 CFR Part 63 Subpart ZZZZ, Table 6 to show continuous compliance with each emission or operating parameter that applies to GEU-6. [40 CFR §63.6655(d)]

#### d. Reporting Requirements

- i. The Permittee shall report each instance GEU-6 did not meet an applicable emission limitation of operating limitation in 40 CFR Part 63 Subpart ZZZZ, Table 2a. These deviations must be reported according to the requirements in 40 CFR §63.6650. If the Permittee changes a catalyst, the values of the operating parameters measured during the initial performance test must be reestablished. When you reestablish the values of the operating parameters, you must also conduct a performance test to

### Section III: Applicable Requirements and Compliance Demonstration

demonstrate that you are meeting the required emission limitation applicable to GEU-6. [40 CFR §63.6640(b)]

- ii. The Permittee shall submit the following notifications:
  - (A) All of the notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to GEU-6 by the dates specified. [40 CFR §63.6645(a)]
    - (1) The Permittee must submit an initial notification no later than 120 days after startup of the engine(s). The notification shall contain the information specified in §63.9(b)(2). [40 CFR §63.6645(c), RCSA §22a-174-33(j)(l)(K)(ii)]
  - (B) A Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR §63.7(b)(1). [40 CFR §63.6645(g)]
  - (C) A Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii). [40 CFR §63.6645(h)]
    - (1) The Notification of Compliance Status must include the requirements of 40 CFR §63.6620(i) if conducting a performance test. [40 CFR §63.6620(i)]
- iii. The Permittee shall submit the following reports:
  - (A) If there are no deviations from any emission limitations or operating limitations that apply to GEU-6, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CPMS, was out-of-control, as specified in 40 CFR §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period.
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b)(1)-(5). [40 CFR §63.6650(b), Table 7 Item 1.a.i.]
  - (B) If GEU-6 had a deviation from any emission limitation or operating limitation during the reporting period, the information in 40 CFR §63.6650(d). If there were periods during which the CMS, including CPMS, was out-of-control, as specified in 40 CFR §63.8(c)(7), the information in 40 CFR §63.6650(e).
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b). [40 CFR §63.6650(b), Table 7 Item 1.b.i.]
  - (C) If GEU-6 had a malfunction during the reporting period, the information in 40 CFR §63.6650(c)(4).
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b). [40 CFR §63.6650(b), Table 7 Item 1.c.i.]
  - (D) The Compliance report must contain the information in 40 CFR §63.6650(c)(1)-(6). [40 CFR §63.6650(c)]
- iv. The Permittee shall report each instance in which GEU-6 did not meet the applicable requirements in 40 CFR Part 63 Subpart ZZZZ, Table 8. [40 CFR §63.6640(e)]
- v. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR §70.6 (a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of 40 CFR Part 63 Subpart ZZZZ along with, or as part of, the semiannual

### Section III: Applicable Requirements and Compliance Demonstration

monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [40 CFR §63.6650(f)]

**G. GROUPED EMISSIONS UNIT 13 (GEU-13), EMISSIONS UNITS 507 and 508 (EU-507 and EU-508): Two (2) 5,564 kW Rolls Royce Natural Gas Fired Combined Heat and Power (CHP) 4-Stroke Lean-Burn Internal Combustion Engines each with SCR, Oxidation Catalyst, and Heat Recovery Steam Generators; Permit Nos. 070-0292 and 070-0293; 40 CFR Part 60 Subpart JJJJ, 40 CFR Part 63 Subpart ZZZZ, RCSA §22a-174-22e; Constructed 2021**

**Any other engine that is identified as part of GEU-13 in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below**

#### 1. Fuel Use and Operating Conditions

*a. Limitation or Restriction (each unit)*

- i. Allowable Fuel: Natural Gas [P070-0292, P070-0293]
- ii. Maximum Fuel Firing Rate (Mcf/hr): 45.487 @ 1000 Btu/cf [P070-0292, P070-0293]
- iii. Maximum Gross Heat Input (MMBtu/hr): 45.487 [P070-0292, P070-0293]
- iv. Maximum Natural Gas Consumption over any Consecutive 12 Month Period (cf/year): 455,345,000 [P070-0292, P070-0293]
- v. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [P070-0292, P070-0293]
- vi. The Permittee shall operate and maintain this equipment, 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. [P070-0292, P070-0293]
- vii. The Permittee shall properly operate the control equipment at all times that this equipment is in operation and emitting air pollutants. [P070-0292, P070-0293]
- viii. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the engine. [P070-0292, P070-0293]
- ix. Maximum Pressure Drop Across Catalyst/Mixer (inches WC): 7 [P070-0292, P070-0293]
- x. Maximum Aqueous Urea/Water Consumption Rate (gal/hr): 3.9 [P070-0292, P070-0293]

*b. Monitoring Requirements*

- i. The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor fuel feed to each unit in GEU-13. [P070-0292, P070-0293]
- ii. The Permittee shall continuously monitor the SCR aqueous urea injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed for the SCR. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to

### Section III: Applicable Requirements and Compliance Demonstration

achieve compliance with the emission limits in Section III.G.2.a of this Title V permit. [P070-0292, P070-0293]

- iii. The Permittee shall continuously monitor the oxidation catalyst inlet temperature (°F). The Permittee shall maintain this parameter within the range recommended by the manufacturer to achieve compliance with the emission limits in Section III.G.2.a of this Title V permit. [P070-0292, P070-0293]
- iv. The Permittee shall perform inspections of the SCR and oxidation catalysts as recommended by the manufacturer. [P070-0292, P070-0293]
- v. The Permittee shall conduct an inspection and tune-up of the engine a minimum of once per calendar year. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under RCSA Section 22a-174-22e(i)(1). The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are no longer available, according to best available practices. [P070-0292, P070-0293]
- vi. Record keeping specified in Section III.G.1.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]

#### c. *Record Keeping Requirements*

- i. The Permittee shall keep records of the monthly and consecutive 12 month fuel consumption for each engine. The consecutive 12-month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P070-0292, P070-0293]
- ii. The Permittee shall continuously record the SCR aqueous urea injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed for the SCR. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits in Section III.G.2.a of this Title V permit. [P070-0292, P070-0293]
- iii. The Permittee shall continuously record the oxidation catalyst inlet temperature (°F). The Permittee shall maintain this parameter within the range recommended by the manufacturer to achieve compliance with the emission limits in Section III.G.2.a of this Title V permit. [P070-0292, P070-0293]
- iv. The Permittee shall keep records of all exceedances of any operating parameter. Such records shall include: [P070-0292, P070-0293]
  - (A) The date and time of the exceedance;
  - (B) A detailed description of the exceedance; and
  - (C) The duration of the exceedance.
- v. The Permittee shall keep records of the occurrence and duration of any transient operation of this equipment; any malfunction of the air pollution control equipment; or any periods during which a monitoring device is inoperative. Such records shall contain the following information: [40 CFR §60.7(b), P070-0292, P070-0293]
  - (A) Type of event (startup, shutdown, or malfunction);

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

- (B) Equipment affected;
  - (C) Date of event;
  - (D) Duration of event (minutes) to determine compliance with Part III.G.2.a.iv of this permit
  - (E) Total NO<sub>x</sub>, VOC, and CO emissions emitted (lb) during the event.
- vi. The Permittee shall keep records of each delivery of aqueous urea. The records shall include: [P070-0292, P070-0293]
- (A) The date of delivery;
  - (B) The name of the supplier;
  - (C) The quantity of aqueous urea delivered; and Concentration.
- vii. The Permittee shall keep records of the inspection and maintenance of the SCR and oxidation catalysts. The records shall include: [P070-0292, P070-0293]
- (A) The name of the person;
  - (B) The date;
  - (C) The results or actions; and
  - (D) The date the catalyst is replaced.
- viii. The Permittee shall keep records of each tune-up. The records shall include: [P070-0292, P070-0293]
- (A) The date on which the engine is tuned-up;
  - (B) The name and affiliation of the person performing the tune-up;
  - (C) A description of work performed;
  - (D) The procedures used to inspect and perform adjustments; and
  - (E) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e.
- ix. The Permittee shall make and keep the following records:
- (A) The date and work performed for repairs, replacement of parts and other maintenance; [RCSA §22a-174-22e(j)(2)(B)]
  - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]
  - (C) Any other records or reports required by an order or permit issued by the commissioner pursuant to this section. [RCSA §22a-174-22e(j)(2)(G)]

#### *d. Reporting Requirements*

- i. The Permittee shall notify the commissioner, in writing, of the date of commencement of construction and the date of initial startup of this equipment. Such written notifications shall be submitted no later than 30 days after the subject event. [P070-0292, P070-0293]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

## Section III: Applicable Requirements and Compliance Demonstration

### 2. Pollutant Emissions

#### a. Limitation or Restriction

- i. The Permittee shall not exceed the following emissions for each unit during steady state operation as defined by P070-0292 and P070-0293 (lb/MMBtu unless otherwise noted): [P070-0292, P070-0293]
  - (A) PM<sub>10</sub>: 0.01
  - (B) PM<sub>2.5</sub>: 0.01
  - (C) SO<sub>2</sub>: 6.6E-4
  - (D) NO<sub>x</sub>: 0.02
    - (1) 0.05 gm/bhp-hr
    - (2) Less than or equal to 1.5 gm/bhp-hr [RCSA §22a-174-22e(d)(6)(B)]
  - (E) VOC: 0.02
    - (1) 0.05 gm/bhp-hr
  - (F) CO: 0.008
    - (1) 0.02 gm/bhp-hr
- ii. The Permittee shall not exceed the following emissions for each unit for all operating scenarios (ppmvd @ 15% O<sub>2</sub>): [P070-0292, P070-0293]
  - (A) Ammonia: 5
  - (B) Formaldehyde: 14
- iii. The Permittee shall not exceed the following emissions for each unit during transient operation as defined by P070-0292 and P070-0293 (lb/hr): [P070-0292, P070-0293]
  - (A) NO<sub>x</sub>: 17.76
  - (B) VOC: 5.57
  - (C) CO: 35.53
- iv. The Permittee shall minimize emissions during periods of transient operation by the following work practices and time constraints: [P070-0292, P070-0293]
  - (A) Start the aqueous urea injection as soon as minimum catalyst temperature is reached;
  - (B) The oxidation catalyst shall not be bypassed during transient operation;
  - (C) The duration of transient operation shall not exceed 15 minutes;
  - (D) Emissions during these periods shall be counted towards the annual emission limits stated herein.
- v. The Permittee shall not exceed the following emissions for each unit (tons per 12 consecutive months): [P070-0292, P070-0293]
  - (A) PM<sub>10</sub>: 2.0
  - (B) PM<sub>2.5</sub>: 2.0
  - (C) SO<sub>2</sub>: 0.12

### Section III: Applicable Requirements and Compliance Demonstration

- (D) NO<sub>x</sub>: 3.7
- (E) VOC: 3.5
- (F) CO: 2.0
- vi. The Permittee shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29. [P070-0292, P070-0293] [STATE ONLY REQUIREMENT]
- vii. The Permittee shall not cause the opacity from the operation of any unit to exceed:
  - (A) 10% during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9; or [P070-0292, P070-0293]
  - (B) 40% as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one minute block average. [RCSA §22a-174-18(b)(1)(B)]

#### *b. Monitoring Requirements*

- i. The Permittee shall conduct initial stack testing for NO<sub>x</sub>, CO, VOC, Ammonia, Acrolein, and Formaldehyde within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. [P070-0292, P070-0293]
- ii. Recurrent stack testing for NO<sub>x</sub>, CO, and VOC shall be conducted every three years from the date of the previous stack test to demonstrate compliance with their respective limits. [P070-0292, P070-0293]
- iii. The Permittee is not required to demonstrate compliance with the short-term emission limits stated herein during the initial shakedown period. Emissions during the initial shakedown period shall be counted towards the annual emission limits stated herein. The shakedown period shall not extend beyond the required date for the initial performance tests. [P070-0292, P070-0293]
- iv. Demonstration of compliance with the above emission limits may be met by calculating the emission rates using emission factors from the following sources: [P070-0292, P070-0293]
  - (A) PM<sub>10</sub>/PM<sub>2.5</sub>, SO<sub>2</sub>, HAP (except Formaldehyde, Acrolein, and Ammonia): AP-42, Fifth Edition, Volume 1, Table 3.2-2
  - (B) NO<sub>x</sub>, CO, VOC, Formaldehyde, Acrolein, and Ammonia: Most Recent Stack Test Data
  - (C) NO<sub>x</sub>, CO, VOC (Transient Emissions): Manufacturer's Data
- v. The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation. [P070-0292, P070-0293]
- vi. Record keeping specified in Section III.G.2.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(l)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall calculate and record the monthly and consecutive 12-month PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. Emissions during startup and

### Section III: Applicable Requirements and Compliance Demonstration

shutdown shall be counted towards the annual emission limitations in Section III.G.2.a.v of this Title V permit. [P070-0292, P070-0293]

- ii. The Permittee shall make and keep records of the dates and times of all emission testing required by Section III.G.2.b of this Title V permit, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22e(j)(2)(C)]

#### d. Reporting Requirements

- i. The Permittee shall submit stack test results to the commissioner within 60 days after completion of testing. [P070-0292, P070-0293; RCSA Section 22a-174-22e(k)(1)]
- ii. The Permittee shall notify the commissioner in writing of any malfunction of the engine or the air pollution control equipment. Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P070-0292, P070-0293]
  - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
  - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. 40 CFR Part 60 Subpart JJJJ Requirements, Non-Emergency SI Engine ≥ 500 HP

#### a. Limitation or Restriction

- i. The emission rate of NO<sub>x</sub>, CO and VOC discharged to the atmosphere from the permitted units shall not exceed the respective emission limitation specified in 40 CFR 60 Subpart JJJJ, Table 1. [40 CFR §60.4233(e)]
- ii. The Permittee shall operate and maintain the engine to achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
- iii. The Permittee shall demonstrate compliance with the emission standards in 40 CFR §60.4233 through one of the methods specified below: [40 CFR §60.4243(b)]
  - (A) Purchasing an engine certified according to procedures specified in 40 CFR Subpart JJJJ, for the same model year and demonstrating compliance according to one of the methods specified in §60.4243(a).
  - (B) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to §§60.4243(b)(2)(i) and (ii).
- iv. The Permittee shall comply with parts §§60.1 through 60.19 of the General Provisions as specified in Table 3 of 40 CFR 60 Subpart JJJJ [40 CFR §60.4246]

#### b. Monitoring Requirements

- i. 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)]

### Section III: Applicable Requirements and Compliance Demonstration

#### *c. Recordkeeping Requirements*

- i. Owners and operators of all stationary SI ICE must keep records of the following information: [40 CFR §60.4245]
  - (A) All notifications submitted to comply with this subpart and all documentation supporting any notification.
  - (B) Maintenance conducted on the engine.
  - (C) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts §§1048, 1054, and 1060, as applicable.
  - (D) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR §60.4243(a)(2), documentation that the engine meets the emission standards.

#### *d. Reporting Requirements*

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

#### **4. 40 CFR Part 63 Subpart ZZZZ Requirements, Non-Emergency Engine Requirements, 4SLB SI ICE >500 bhp**

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

- i. The Permittee shall:
  - (A) Operate GEU-13 in accordance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63 Subpart ZZZZ that apply, at all times; and comply with the applicable requirements found in 40 CFR §§63.1 through 63.15. [40 CFR §§63.6605(a) and 63.6665]
  - (B) At all times, operate and maintain GEU-13, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.6605(b)]
  - (C) For GEU-13:
    - (1) Reduce CO emissions by 93 percent or more; or [40 CFR §63.6600(b); Table 2a, Item 2.a.]
    - (2) Limit concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O<sub>2</sub>. [40 CFR §63.6600(b); Table 2a, Item 2.b.]
  - (D) Maintain catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and [40 CFR §63.6600(b); Table 2b, Item 1.a.]
    - (1) Maintain the temperature of the exhaust so that the catalyst inlet temperature is greater than or equal to 450 F and less than or equal to 1350 F. [40 CFR §63.6600(b); Table 2b, Item 1.b.]
  - (E) Minimize each engine's time spent at idle and minimize each engine's startup time at startup to a period needed for appropriate and safe loading of each engine, not to exceed 30 minutes, after

### Section III: Applicable Requirements and Compliance Demonstration

which time the non-startup emissions limitations apply.  
[40 CFR §63.6625(h)]

- (F) Comply with the requirements in 40 CFR §§63.6625(b)(1) – (6).
- ii. The Permittee must demonstrate initial compliance with the emission limitations, operating limitations, and other requirements in 40 CFR §63.6630 by: [40 CFR §63.6630]
  - (A) Demonstrating initial compliance with each emission limitation, operating limitation, and other requirement that applies to each engine according to Table 5, Items 1 and 9 of 40 CFR Subpart ZZZZ.
  - (B) During the initial performance test, establishing each operating limitation in Table 2b of 40 CFR Subpart ZZZZ that applies to each engine.
- iii. The Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 2a and 2b of 40 CFR Subpart ZZZZ according to methods specified in Table 6 to this subpart. [40 CFR §63.6640(a)]

#### *b. Monitoring Requirements*

- i. The Permittee shall install, operate, and maintain a continuous parameter monitoring system (CPMS) in accordance with 40 CFR §63.6625(b). [40 CFR §63.6625(b)]
- ii. The Permittee shall continuously monitor catalyst inlet temperature according to the requirements in 40 CFR §63.6625. [40 CFR §63.6625(b); Table 5, Item 1.a.ii and Item 9.a.ii.]
- iii. The Permittee shall comply with the monitoring and data collection in accordance with 40 CFR §63.6635:
  - (A) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that GEU-13 is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure or the monitoring provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 CFR §63.6635(b)]
  - (B) The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods. [40 CFR §63.6635(c)]
- iv. The Permittee shall conduct semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved, or formaldehyde to demonstrate that the required formaldehyde concentration limitation is achieved; as specified in Table 3, Item 1 and 3 of 40 CFR Subpart ZZZZ and in accordance with the requirements in Table 4 of 40 CFR Subpart ZZZZ, and [40 CFR §§63.6615, 63.6620(b); 63.6640(a) and (b), Table 6, Item 1.a.i. and 7.a.i.]
  - (A) Collect the catalyst inlet temperature data according to 40 CFR §63.6625(b); and [40 CFR §63.6640(a); Table 6, Item 1.a.ii. and 7.a.ii.]
  - (B) Reduce these data to 4-hour rolling averages; and [40 CFR §63.6640(a); Table 6, Item 1.a.iii. and 7.a.iii.]
  - (C) Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. [40 CFR §63.6640(a); Table 6, Item 1.a.v. and 7.a.v.]

### Section III: Applicable Requirements and Compliance Demonstration

- (D) After demonstrating compliance for two consecutive tests, the Permittee may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or the Permittee deviates from any operating limitations, the Permittee must resume semiannual performance tests.  
[§63.6615; Table 3, Footnote 1]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep the following records:
  - (A) A copy of each notification and report that you submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
  - (B) Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
  - (C) Records of performance tests and performance evaluations as required in 40 CFR §63.10(b)(2)(viii). [40 CFR §63.6655(a)(3)]
  - (D) Records of all required maintenance performed on the air pollution and monitoring equipment. [40 CFR §63.6655(a)(4)]
  - (E) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(5)]
- ii. For each CPMS, the Permittee must keep the following records:
  - (A) Records described in 40 CFR §§63.10(b)(2)(vi) through (xi). [40 CFR §63.6655(b)(1)]
  - (B) Previous versions of the performance evaluation plan as required in 40 CFR §63.8(d)(3). [40 CFR §63.6655(b)(2)]
  - (C) Requests for alternatives to the relative accuracy test for CPMS as required in 40 CFR §63.8(f)(6)(i). [40 CFR §63.6655(b)(3)]
  - (D) Records required in 40 CFR Part 63 Subpart ZZZZ, Table 6 to show continuous compliance with each emission or operating parameter that applies to GEU-13. [40 CFR §63.6655(d)]

#### *d. Reporting Requirements*

- i. The Permittee shall report each instance GEU-13 did not meet an applicable emission limitation of operating limitation in 40 CFR Part 63 Subpart ZZZZ, Table 2a. These deviations must be reported according to the requirements in 40 CFR §63.6650. If the Permittee changes a catalyst, the values of the operating parameters measured during the initial performance test must be reestablished. When you reestablish the values of the operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to GEU-13. [40 CFR §63.6640(b)]
- ii. The Permittee shall submit the following notifications:

### Section III: Applicable Requirements and Compliance Demonstration

- (A) All of the notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to GEU-13 by the dates specified.  
[40 CFR §63.6645(a)]
    - (1) The Permittee must submit an initial notification no later than 120 days after startup of the engine(s). The notification shall contain the information specified in §63.9(b)(2). [40 CFR §63.6645(c), RCSA §22a-174-33(j)(l)(K)(ii)]
  - (B) A Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR §63.7(b)(1).  
[40 CFR §63.6645(g)]
  - (C) A Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii).  
[40 CFR §63.6645(h)]
    - (1) The Notification of Compliance Status must include the requirements of 40 CFR §63.6620(i) if conducting a performance test. [40 CFR §63.6620(i)]
- iii. The Permittee shall submit the following reports:
- (A) If there are no deviations from any emission limitations or operating limitations that apply to GEU-13, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CPMS, was out-of-control, as specified in 40 CFR §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period.
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b)(1)-(5).  
[40 CFR §63.6650(b), Table 7 Item 1.a.i.]
  - (B) If GEU-13 had a deviation from any emission limitation or operating limitation during the reporting period, the information in 40 CFR §63.6650(d). If there were periods during which the CMS, including CPMS, was out-of-control, as specified in 40 CFR §63.8(c)(7), the information in 40 CFR §63.6650(e).
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b).  
[40 CFR §63.6650(b), Table 7 Item 1.b.i.]
  - (C) If GEU-13 had a malfunction during the reporting period, the information in 40 CFR §63.6650(c)(4).
    - (1) Semiannually according to the requirements in 40 CFR §63.6650(b).  
[40 CFR §63.6650(b), Table 7 Item 1.c.i.]
  - (D) The Compliance report must contain the information in 40 CFR §63.6650(c)(1)-(6).  
[40 CFR §63.6650(c)]
- iv. The Permittee shall report each instance in which GEU-13 did not meet the applicable requirements in 40 CFR Part 63 Subpart ZZZZ, Table 8. [40 CFR §63.6640(e)]
- v. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR §70.6 (a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of 40 CFR Part 63 Subpart ZZZZ along with, or as part of, the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However,

### Section III: Applicable Requirements and Compliance Demonstration

submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [40 CFR §63.6650(f)]

#### H. 40 CFR Part 63 Subpart ZZZZ Requirements for Emergency Engines

**Any emergency engine that is identified as subject to 40 CFR Part 63 Subpart ZZZZ in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below.**

##### 1. Emergency Engines Work Practice Standards

###### a. Limitation or Restriction

###### i. Where applicable, the Permittee shall:

- (A) Change the oil and filter on each emergency engine every 500 hours of operation or annually, whichever comes first.  
[40 CFR §63.6602, Table 2c, Item 1.a. and Table 2c, Item 6.a.]
  - (1) The Permittee may use an oil analysis program, in order to extend the specified oil change requirements, in accordance with 40 CFR §§6325(i) and (j).
- (B) Inspect the air cleaner on each emergency engine (excluding SI RICE) every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.  
[40 CFR §63.6602, Table 2c, Item 1.b.]
- (C) Inspect spark plugs on all SI RICE 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602, Table 2c, Item 6.b.]
- (D) Inspect all hoses and belts on each emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary.  
[40 CFR §63.6602, Table 2c, Item 1.c. and Table 2c, Item 6.c.]
- (E) Shall minimize each engine's time spent at idle and minimize each engine's time at startup to a period needed for appropriate and safe loading of each engine, not to exceed 30 minutes, after which time the non-startup emissions limitations apply. (excluding SI RICE) [40 CFR §63.6602, Table 2c, Item 1.]
- (F) If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Sections III.H.1.a.i.(A)–(E) of this Title V permit, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated.  
[40 CFR §63.6602, Table 2c, Footnote 1]
- (G) At all times, operate and maintain each emergency engine, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.6605(b)]
- (H) Operate and maintain each existing emergency engine according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.  
[40 CFR §63.6625(e)]

- ii. The Permittee shall operate each emergency engine according to the following requirements. If the Permittee does not operate each engine in accordance with the following requirements, the engine will

### Section III: Applicable Requirements and Compliance Demonstration

not be considered an emergency engine under 40 CFR Part 60 Subpart ZZZZ and must meet all of the requirements for non-emergency engines. [40 CFR §63.6640(f)]:

- (A) There is no time limit on the use of each emergency engine in emergency situations. [40 CFR §63.6640(f)(1)]
  - (1) Engines operated pursuant to RCSA §22a-174-3b(e)(C) are limited to less than or equal to 300 hours during any twelve month rolling aggregate.
- (B) The Permittee may operate an emergency engine for any combination of the following, for a maximum of 100 hours per calendar year. The 100 hours per year shall be included in the 300 hour per year operating restriction of RCSA §22a-174-3b(e)(C).
  - (1) Each emergency engine may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
  - (2) Each emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Section III.H.1.a.ii.(B)(1) of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

#### *b. Monitoring Requirements*

The Permittee shall install a non-resettable hour meter on each emergency engine. [40 CFR §63.6625(f); RCSA §22a-174-33(j)(1)(K)(ii) for GEU-4]

#### *c. Record Keeping Requirements*

##### *i. Existing Engines, less than 500 bhp*

- (A) The Permittee shall make and keep records of the parameters that analyzed as part of the oil analysis program, the results of any such analysis, and the oil changes for each emergency engine. [40 CFR §63.6625(i)]
- (B) The Permittee shall keep a copy of each notification and report submitted to comply with 40 Part CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification of Compliance Status submitted. [40 CFR §63.6655(a)(1)]
- (C) The Permittee shall make and keep records of the occurrence and duration of any malfunction in operation. [40 CFR §63.6655(a)(2)]
- (D) The Permittee shall make and keep records of any required performance tests and performance evaluations. [40 CFR §63.6655(a)(3)]

### Section III: Applicable Requirements and Compliance Demonstration

- (E) The Permittee shall make and keep 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)(5)]
  - (F) The Permittee shall make and keep records to show continuous compliance with each applicable work practice standard in 40 CFR Part 63 Subpart ZZZZ, Table 6. [40 CFR §63.6655(d)]
  - (G) The Permittee shall make and keep records of the maintenance conducted on each emergency engine in order to demonstrate that the engine was operated and maintained according to the Permittee's maintenance plan. [40 CFR §63.6655(e)]
  - (H) The Permittee shall make and keep records of the hours of operation that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operations, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is operated for the purpose of a deviation in voltage or frequency, the Permittee shall make and keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for this purpose. [40 CFR §63.6655(f)]
- ii. The Permittee shall maintain records sufficient to determine compliance with the applicable limitation or restriction in Section III.H.1.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

#### d. Reporting Requirements

- i. Existing Engines, Less than 500 bhp
  - (A) The Permittee shall report to the Administrator each instance in which a deviation from a work practice standard in Section III.H.1.a of this Title V permit occurs. [40 CFR §63.6640(b)]
  - (B) The Permittee shall report any failure to perform the engine's work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR §63.6602, Table 2c, Footnote 1]
  - (C) For each deviation from a work practice standard in Section III.H.1.a. of this Title V permit, the Compliance report must contain the following information: [40 CFR §63.6650(d)]:
    - (1) The Company name and address
    - (2) A statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.
    - (3) Date of report and beginning and ending dates of the reporting period.
    - (4) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the Permittee during a malfunction to minimize emissions in accordance with Section III.H.1.c.i.(E) of this Title V permit, including actions taken to correct a malfunction.

### Section III: Applicable Requirements and Compliance Demonstration

- (5) The total operating time of the emergency engine at which the deviation occurred during the reporting period.
  - (6) Information on the number duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specific by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 2. Emergency Engines Hours of Operation

*a. Limitation or Restriction*

The Permittee shall operate an emergency stationary RICE according to the requirements in 40 CFR §§63.6640(f)(1), (f)(2)(i), and (f)(3). Any operation other than emergency operation and maintenance and testing as described in 40 CFR §63.6640(f)(1), (f)(2)(i), or non-emergency use in 40 CFR §63.6640 (f)(3), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart ZZZZ and will need to meet all requirements for a non-emergency engine.  
[40 CFR §63.6640(f)]

*b. Monitoring Requirements*

The Permittee shall install a non-resettable hour meter prior to startup of any emergency engine.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall comply with the applicable requirements pursuant to 40 CFR §63.6655.

*d. Reporting Requirements*

The Permittee shall comply with all applicable requirements pursuant to 40 CFR §§63.6645 and 63.6650.

#### I. 40 CFR Part 60 Subpart III Requirements for Emergency Engines

**Any emergency engine that is identified as subject to 40 CFR Part 60 Subpart III in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below.**

##### 1. Emission Standards

*a. Limitation or Restriction*

- i. The Permittee shall not cause or allow any emergency engine to exceed the applicable emission limitations found in 40 CFR §60.4205(b).
- ii. The Permittee shall: [40 CFR §60.4211(a)]
  - (A) Operate and maintain each emergency engine according to the manufacturer's emission-related written instructions;
  - (B) Change only those emission-related settings that are permitted by the manufacturer; and
  - (C) Meet the requirements of 40 CFR Parts 89, and/or 1068, as applicable.

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

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

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

*d. Reporting Requirements*

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

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

*a. Limitation or Restriction*

The Permittee shall operate an emergency stationary RICE according to the requirements in 40 CFR §§60.4211(f)(1), (f)(2)(i), and (f)(3). Any operation other than emergency operation and maintenance and testing as described in 40 CFR §60.4211(f)(1), (f)(2)(i), or non-emergency use in 40 CFR §60.4211 (f)(3), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart IIII and will need to meet all requirements for a non-emergency engine.  
[40 CFR §60.4211(f)]

*b. Monitoring Requirements*

The Permittee shall install a non-resettable hour meter prior to startup of any emergency engine.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

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

*d. Reporting Requirements*

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

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

*a. Limitation or Restriction*

The Permittee must meet the fuel sulfur requirements found in 40 CFR §80.510(b).  
[40 CFR §60.4207(b)]

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient if the certification or contract identifies:

[RCSA §22a-174-19b(g)(3)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

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

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

### Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall maintain records required in Section III.I.3.c.i of this Title V permit for five (5) years from the date such record is created. Records shall be made available to the commissioner upon request. [RCSA §22a-174-19b(g)(4)]

#### d. Reporting Requirements

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

### J. 40 CFR Part 60 Subpart JJJJ Requirements for Emergency Engines That Comply With 40 CFR Part 63 Subpart ZZZZ Pursuant To 40 CFR §63.6590(c)

**Any emergency engine that is identified as subject to 40 CFR Part 63 Subpart JJJJ in the list created in Section III.P.31 of this Title V permit shall also be subject to the requirements below.**

#### 1. Emission Standards

##### a. Limitation or Restriction

- i. The Permittee shall not cause or allow any emergency engine to exceed the applicable emission limitations found in 40 CFR §§60.4233 and 60.4243, as applicable.
- ii. The Permittee must meet the fuel sulfur requirements found in 40 CFR §1090.205. [40 CFR §60.4235]
- iii. The Permittee shall operate an emergency stationary ICE according to the requirements in 40 CFR §§60.4243(d)(1), (d)(2), and (d)(3). Any operation other than emergency operation and maintenance and testing as described in 40 CFR §§60.4243(d)(1), (d)(2), and (d)(3), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart JJJJ and will need to meet all requirements for a non-emergency engine. [40 CFR §60.4243(d)]

##### b. Monitoring Requirements

- i. The Permittee shall comply with the applicable monitoring requirements in accordance with 40 CFR §§60.4237, 60.4243(f), and 60.4244.
- ii. The Permittee shall install a non-resettable hour meter prior to startup of any emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

The Permittee shall comply with the applicable requirements pursuant to 40 CFR §60.4245.

##### d. Reporting Requirements

The Permittee shall comply with the applicable requirements pursuant to 40 CFR §60.4245.

### K. GROUPED EMISSIONS UNIT 7 (GEU-7) – Miscellaneous Cold Solvent Cleaners

**The following cold solvent cleaners have been identified as being part of GEU-7 as of the issuance of this Title V permit (Application No. 202304120):**

- EU-199 (SystemOne Technologies 570, Constructed 2002)**
- EU-301 (Pure Wash KT 1216, Constructed 2008)**
- EU-302 (Pure Wash KT 1230, Constructed 2008)**
- EU-413 (Ecomaster EM4000, Constructed 2017)**
- EU-490 (Safety Kleen Model 81, Constructed 2018)**

### Section III: Applicable Requirements and Compliance Demonstration

EU-492 (PureWask KT 1216, Constructed 2018)

EU-512 (RAMCO, Constructed 2022)

EU-513 (Simple Green, Constructed 2022)

Any other cold solvent cleaner that is identified as part of GEU-7 in the list created in Section III.P.32 of this Title V permit shall also be subject to the requirements below.

#### 1. Solvent Usage and Work Practice Standards

##### a. Limitation or Restriction

- (A) Equip the cleaning device with a cover that is easily operated with one hand.  
[RCSA §22a-174-20(l)(3)(A)]
- (B) Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system.  
[RCSA §22a-174-20(l)(3)(B)]
- (C) Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(l)(3)(C)]
- (D) Close the cover if parts are not being handled in the cleaner for two minutes or more, or if the device is not in use. [RCSA §22a-174-20(l)(3)(D)]
- (E) Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer.  
[RCSA §22a-174-20(l)(3)(E)]
- (F) If a degreasing solvent spray is used:  
[RCSA §§22a-174-20(l)(3)(F)(i) – (iii)]
  - (1) Supply a degreasing solvent spray that is a solid fluid stream (not a fine , atomized or shower type spray);
  - (2) Maintain a solvent spray pressure that does not exceed ten pounds per square inch as measured at the pump outlet; and
  - (3) Perform spraying within the confines of the cold cleaning unit.
- (G) Minimize drafts across the top of the cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measure between one and two meters upwind, at the same elevation as the tank lip. [RCSA §22a-174-20(l)(3)(G)]
- (H) 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(l)(3)(H)]
- (I) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements. [RCSA §22a-174-20(l)(3)(I)]
- (J) Use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. [RCSA §22a-174-20(l)(3)(K)]
- (K) Shall not clean sponges, fabric, wood, leather, paper and other absorbent material in the cold cleaning machine. [RCSA §22a-174-20(l)(3)(L)]

### Section III: Applicable Requirements and Compliance Demonstration

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

- i. The Permittee shall maintain and keep the following records:

[RCSA §22a-174-20(l)(3)(J)]:

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

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

(C) The percent VOC content by weight; and

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

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

*d. Reporting Requirements*

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

#### **L. EU-126 and GROUPED EMISSIONS UNIT 10**

**EU-126 – (Nordson electrostatic powder paint system); Coating Operation for Miscellaneous Metal Parts Subject to RCSA §22a-174-3b(g), RCSA §22a-174-20(s), and Consent Order No. 8049**

**GROUPED EMISSION UNIT 10 (GEU-10) – Coating Operations for Miscellaneous Metal Parts Subject to RCSA §22a-174-20(s) and Consent Order No. 8049**

The following coating operations have been identified as being part of GEU-10 as of the issuance of this Title V permit (Application No. 202304120):

**EU-238 (Coating System, Construction Unknown)**

**EU-239 (Grieve B1-750, Construction Unknown)**

**EU-240 (Grieve WRC666-500, Construction 2002)**

**EU-256 (Coating System and Lab Hood, Construction 2004)**

**EU-296 (Coating System, Construction 2007)**

**EU-391 (Coating System, Construction 2009)**

**EU-457 (JPW Powder Coating, Construction 2013)**

Any other coating operation that is identified as part of GEU-10 in the list created in Section III.P.33 of this Title V permit shall also be subject to the applicable requirements below.

#### **1. Coating and Solvent Usage**

*a. Limitation or Restriction*

- i. The Permittee shall properly maintain equipment and conduct coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter: [RCSA §22a-174-3b(g)(1)] [STATE ONLY REQUIREMENT] (EU-126 only)

(A) The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied;

- (1) The Permittee shall further control the emission of VOCs in accordance with RCSA §§22a-174-20(s)(3)(A) through (F).

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

- (B) The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied;
- (C) Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any 12 month rolling aggregate, exceed 3,000 gallons; and
- (D) Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements:
  - (1) Includes a minimum collection efficiency of 90%; and
  - (2) Is operated and maintained in good working condition.
- ii. The Permittee shall comply with the application methods in accordance with RCSA §§22a-174-20(s)(4)(A) through (I). [RCSA §22a-174-20(s)(4)]
- iii. The Permittee shall not allow emissions of VOC from EU-126 and GEU-10 to exceed 1,666 pounds in any calendar month. [Consent Order No. 8049 Part B.1.a]
- iv. So long as the Permittee complies with the provisions of Consent Order No. 8049 Parts B.1.a and B.1.b, EU-126 and GEU-10 shall be exempt under RCSA §22a-174-20(s)(7) from the emission limitations of RCSA §22a-174-20(s)(3). [Consent Order No. 8049 Part B.1.c]
- v. If during any calendar month EU-126 and GEU-10 emits more than 1,666 pounds of VOC, the units shall cease from that time forward to be exempt from the emission limitations of RCSA §22a-174-20(s)(3). [Consent Order No. 8049 Part B.1.d]
- vi. The Permittee shall comply with the following work practices:  
[RCSA §22a-174-20(s)(5)]
  - (A) New and used VOC-containing coating, diluent or cleaning solvent, including a coating mixed on the premises, shall be stored in a nonabsorbent, non-leaking container. Such a container shall be kept closed at all times except when the container is being filled, emptied or is otherwise actively in use;
  - (B) Spills and leaks of VOC-containing coating, diluent or cleaning solvent shall be minimized. Any leaked or spilled VOC-containing coating, diluent or cleaning solvent shall be absorbed and removed immediately;
  - (C) Absorbent applicators, such as cloth and paper, which are moistened with a VOC containing coating or solvent, shall be stored in a closed, nonabsorbent, non-leaking container for disposal or recycling; and
  - (D) VOC-containing coating, diluent and cleaning solvent shall be conveyed from one location to another in a closed container or pipe.
- vii. The Permittee shall achieve the emission limit by the application of low solvent content coating technology for each coating used. [RCSA §22a-174-20(bb)(1)(A)]
- viii. If applicable, the Permittee shall comply with the requirements for Industrial Solvent Cleaning in accordance with RCSA §22a-174-20(ii).
- ix. If applicable, the Permittee shall comply with the requirements for spray application equipment cleaning in accordance with RCSA §22a-174-20(jj)

### Section III: Applicable Requirements and Compliance Demonstration

#### *b. Monitoring Requirements*

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

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the following information: (EU-126 only)  
[RCSA §22a-174-3b(g)(3)] [STATE ONLY REQUIREMENT]
  - (A) Records of the type and quantity of coating and solvent used, in gallons, for each month and each 12 month rolling aggregate;
  - (B) Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and
  - (C) If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency.
- ii. The Permittee shall maintain records of information sufficient to determine compliance with the applicable requirements in RCSA §22a-174-20(s), including, at a minimum the following information:  
[RCSA §22a-174-20(s)(8)]
  - (A) Name and description of each coating and cleaning solvent;
  - (B) VOC content of each coating and diluent, as applied, and the associated calculations;
  - (C) VOC content of each coating or cleaning solvent, as supplied;
  - (D) The amount of each coating and cleaning solvent:
    - (1) Purchased; or
    - (2) Used;
  - (E) A Material Safety Data Sheet, Environmental Data Sheet, Certified Product Data Sheet, or an equivalent data sheet for each coating and cleaning solvent; and
  - (F) Date and type of maintenance performed on air pollution control equipment, if applicable.
- iii. During every month in which the Permittee opts to take advantage of the exemption from RCSA §22a-174-20(s)(3) granted by Consent Order No. 8049, the Permittee shall prepare and maintain at the facility written records of the following information for each calendar month:  
[Consent Order No. 8049 Part B.1.b.]
  - (A) The name of each coating, solvent, or diluent used in EU-126 and GEU-10, and the category of each such coating (i.e., clear coating, air dried coating, extreme performance coating, or other coating);
  - (B) The amount of coatings, solvent or diluent used;
  - (C) For coatings, the VOC content (expressed in pounds per gallon of coating); for solvents or diluents, the VOC density (expressed in pounds per gallon or solvent, or diluent);
  - (D) The total VOC emissions for each coating, solvent, or diluent; and
  - (E) The total VOC emissions from GEU-10.
- iv. The Permittee shall make and keep records of all maintenance performed on the coating systems.  
[RCSA §22a-174-33(j)(1)(K)]

### Section III: Applicable Requirements and Compliance Demonstration

#### d. Reporting Requirements

- i. Within ten days of the date the Permittee becomes aware that the system has emitted or is reasonably likely to emit more than 1,666 pounds of VOC in a calendar month, the Permittee shall notify the commissioner in writing that such exceedance has occurred or is reasonably likely to occur. Upon making such notification, the Permittee shall commence to submit the records described in paragraph B(1)(b) of Consent Order No. 8049 hereinabove to the Commissioner within ten days of the end of each calendar month for which they were prepared. The Permittee shall continue making such submittals unless the commissioner notifies the Permittee in writing that the Permittee may discontinue them.  
[Consent Order No. 8049 Part B.1.e]
- ii. In the event that the Permittee becomes aware that it may not comply, or may not comply on time, with any requirement of Consent Order No. 8049 or any document required hereunder, the Permittee shall immediately notify the commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible.  
[Consent Order No. 8049 Part B.5.]
  - (A) In so notifying the commissioner, the Permittee shall state in writing the reasons from the noncompliance or delay and propose, for the review and written approval of the commissioner, dates by which compliance will be achieved, and the Permittee shall comply with any dates which may be approved in writing by the commissioner.
- iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### M. GROUPED EMISSIONS UNITS 9 AND 11

##### **GROUPED EMISSION UNIT 9 (GEU-9) – Coating Operations for Non-Metal Parts Subject to RCSA §22a-174-3b(g) and Ship Building and Repair NESHAP, 40 CFR Part 63 Subpart II**

The following coating operations have been identified as being part of GEU-9 as of the issuance of this Title V permit (Application No. 202304120):

EU-162 (Binks Spray Booth, Constructed 2003)

EU-398 (Global Finishing Solutions CEG-11616N, Constructed 2012)

##### **GROUPED EMISSION UNIT 11 (GEU-11) – Miscellaneous Coating Subject to 40 CFR Part 63 Subpart II Ship Building and Repair NESHAP**

The following coating operations have been identified as being part of GEU-11 as of the issuance of this Title V permit (Application No. 202304120):

EU-241 (Coating Operation, Construction 1978)

EU-285 (Coating Operation, Construction Unknown)

Any other coating operation that is identified as part of GEU-9 or GEU-11 in the list created in Section III.P.34 of this Title V permit shall also be subject to the applicable requirements below.

#### 1. Coating and Solvent Usage

##### a. Limitation or Restriction

- i. The Permittee shall comply with RCSA §22a-174-3b(g)(1), (GEU-9 only), and 40 CFR Part 63 Subpart II Ship Building and Repair NESHAP at all times:

### Section III: Applicable Requirements and Compliance Demonstration

- (A) The Permittee shall properly maintain equipment and conduct coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter: [RCSA §22a-174-3b(g)(1)] [STATE ONLY REQUIREMENT] (GEU-9 only)
- (1) The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied;
  - (2) The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied;
  - (3) Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any 12 month rolling aggregate, exceed 3,000 gallons; and
  - (4) Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements:
    - (a) Includes a minimum collection efficiency of 90%; and
    - (b) Is operated and maintained in good working condition.
- (B) No owner or operator of an existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of 40 CFR §63.783. [40 CFR §63.783(a)]
- (1) The provisions of 40 CFR Part 63 Subpart II do not apply to coatings used in less than 200 liters (52.8 gallons) per year, provided the total volume of coating exempt under 40 CFR §63.781(b) does not exceed 1,000 liters per year (264 gallons per year) at any facility. Coatings exempt under 40 CFR §63.781(b) shall be clearly labeled as “low-usage exempt,” and the volume of each such coating applied shall be maintained in the facility’s records. [40 CFR §63.781(b)]
- (C) Each owner or operator of a new or existing affected source shall ensure that: [40 CFR §63.783(b)]:
- (1) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
  - (2) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.
- (D) The Permittee shall comply with the applicable compliance procedures in accordance with 40 CFR §63.785. [40 CFR §63.785]
- (E) The Permittee shall further control the emission of VOCs in accordance with RCSA §22a-174-20(s)(3)(A) through (F). [RCSA §22a-174-20(s)(3)(A) through (F)]

#### *b. Monitoring Requirement*

The Permittee shall comply with the test methods and procedures in accordance with 40 CFR §63.786, where applicable. [40 CFR §63.786]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of the following information – GEU-9 Only: [RCSA §22a-174-3b(g)(3)] [STATE ONLY REQUIREMENT]
  - (A) Records of the type and quantity of coating and solvent used, in gallons, for each month and each 12 month rolling aggregate;

### Section III: Applicable Requirements and Compliance Demonstration

- (B) Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and
  - (C) If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency.
- ii. The owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of five years. The records shall include all the information specified in 40 CFR §63.788(b). [40 CFR §63.788(b)]
  - iii. The Permittee shall comply with the applicable notification requirements in accordance with 40 CFR §63.787(a). [40 CFR §63.787(a)]
  - iv. The Permittee shall comply with the applicable recordkeeping requirements in accordance with 40 CFR §§63.10(a), (b), (d), and (f). [40 CFR §63.788(a)]
- d. *Reporting Requirements*
- i. The Permittee shall comply with the applicable reporting requirements in accordance with 40 CFR §§63.10(a), (b), (d), and (f). [40 CFR §63.788(a)]
  - ii. Before the 60<sup>th</sup> day following completion of each six-month period after the compliance date specified in 40 CFR §63.784, each owner or operator of an affected source shall submit a report to the Administrator for each of the previous six months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of 40 CFR §63.788, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of 40 CFR §63.788 for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source. [40 CFR §63.788(c)]
  - iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### N. EMISSIONS UNIT 131 (EU-131) – Abrasive Blast Booth

##### 1. Material Usage

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

- i. Type of Abrasive Used: Steel grit and aluminum oxide [P070-0231]
- ii. Quantity of Abrasive Used: [P070-0231]
  - (A) 576 lb/hr @ 90 psi
  - (B) 2,396,160 lb/yr

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

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

### Section III: Applicable Requirements and Compliance Demonstration

*c. Record Keeping Requirements*

The quantity of abrasive used shall be based on any consecutive twelve month time period and shall be determined for each abrasive used by adding each month's abrasive use to that of the previous eleven months. The Permittee shall make this calculation monthly. [P070-0231]

*d. Reporting Requirements*

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

#### 2. Pressure Drop

*a. Limitation or Restriction*

The Permittee shall activate the pulse air cleaner prior to reaching a pressure differential of 6.0 in. H<sub>2</sub>O across the filter and it shall be activated so as to maintain a pressure differential across the filter between 1 and 6 in. H<sub>2</sub>O. [P070-0231]

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

The Permittee shall record the pressure drop in in. H<sub>2</sub>O across the filter at least once per operational shift of abrasive blasting. [P070-0231]

*d. Reporting Requirements*

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

#### 3. Work Practice Standards

*a. Limitation or Restriction*

- i. The Permittee shall maintain the filter(s) in accordance with the manufacturer's specifications and shall activate the pulse air cleaner during blasting operations. [P070-0231]
- ii. The Permittee shall keep the blasting operations at a constant negative pressure. [P070-0231]
- iii. The Permittee shall install an interlock system such that the blasting cannot operate unless the exhaust system is operating in conformance with Permit No. 070-0231. [P070-0231]

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

- i. The Permittee shall record the date and details of all repairs and maintenance to the baghouse and exhaust systems. [P070-0231]

### Section III: Applicable Requirements and Compliance Demonstration

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

*d. Reporting Requirements*

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

#### 4. Particulate Matter

*a. Limitation or Restriction*

- i. The Permittee shall not exceed the following allowable PM/PM<sub>10</sub> emissions from EU-131: [P070-0231]
  - (A) 0.006 lb/hr
  - (B) 0.012 tons/yr
- ii. Demonstration of compliance shall be based on a design removal efficiency of 99.999% on particle size down to 0.5 microns. [P070-0231]

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

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

*d. Reporting Requirements*

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

#### 5. Pb

*a. Limitation or Restriction*

- i. The Permittee shall not exceed the following allowable Pb emissions from EU-131: [P070-0231]
  - (A) 6.73 E-07 lb/hr
  - (B) 1.40 E-06 tons/yr

*b. Monitoring Requirements*

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

*c. Record Keeping Requirements*

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.N.5.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

### Section III: Applicable Requirements and Compliance Demonstration

#### *d. Reporting Requirements*

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

#### **O. GROUPED EMISSIONS UNIT 81 (GEU-81) – Gasoline Dispensing Facility (GDF) and Two Underground Storage Tanks subject to RCSA §22a-174-30a**

##### **1. Operating Requirements**

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

i. The Permittee shall comply with the following requirements:

- (A) The Permittee shall not transfer or allow the transfer of gasoline between a delivery vehicle and a GDF stationary storage tank unless such stationary storage tank is equipped with a Stage 1 vapor recovery system that includes:  
[RCSA §22a-174-30a(c)(1)]
  - (1) A CARB-approved fill adapter; and
  - (2) A pressure/vacuum vent valve on each GDF storage tank vent pipe.
- (B) Any pressure/vacuum vent valve installed on and after July 1, 2015 shall be a CARB-approved pressure/vacuum vent valve. [RCSA §22a-174-30a(c)(2)]
- (C) The pressure specifications for any pressure/vacuum vent valve shall be as follows:  
[RCSA §22a-174-30a(c)(3)]
  - (1) For any pressure/vacuum vent valve installed prior to July 1, 2015:
    - (a) A positive pressure setting of:
      - (i) 3.0 inches of water, plus or minus 0.5 inch, or
      - (ii) 2.5 to 6.0 inches of water, and
    - (b) A vacuum setting of 8.0 inches of water, plus or minus 2.0 inches; and
  - (2) For any pressure /vacuum vent valve installed on and after July 1, 2015:
    - (a) A positive pressure setting of 2.5 to 6.0 inches of water,
    - (b) A negative pressure setting of 6.0 to 10.0 inches of water, and
    - (c) The total leak rate of all pressure/vacuum vent valves, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.
- (D) Except as provided in Section III.O.1.a.i.(D)(1) of this Title V permit, a GDF storage tank shall be equipped with a two-point Stage I vapor recovery system. The vapor exit port of the two-point Stage I vapor recovery system shall be designed and maintained to seal in a manner that will prevent the discharge of gasoline vapors to the atmosphere when the vapor return hose is disconnected. [RCSA §22a-174-30a(c)(4)]
  - (1) Any GDF that storage tank that does not have an available port to install a two-point Stage I vapor recovery system shall install a two-point Stage I vapor recovery system when the GDF storage tank is replace or when the product in the tank is switched from any other fuel to gasoline. [RCSA §22a-174-30a(c)(5)]

### Section III: Applicable Requirements and Compliance Demonstration

- (E) If GEU-81 has a monthly throughput of 100,000 gallons or more, the Permittee shall install, operate and maintain a Stage I vapor recovery system that meets the following requirements: [RCSA §22a-174-30a(c)(6)]
- (1) All vapor line connections on the GDF storage tank shall be equipped with closures that seal upon disconnect;
  - (2) The Stage I vapor control system shall be designed such that the pressure in the delivery vehicle tank does not exceed 18 inches of water pressure or 5.9 inches of water vacuum during product transfer:
  - (3) The vapor recovery and product adaptors and the method of connection with the delivery elbow shall be designed to prevent the over-tightening or loosening of fittings during normal delivery operations;
  - (4) If a gauge well is separate from the fill tube, the gauge well shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as the fill pipe;
  - (5) Liquid fill connections and vapor couplings shall be equipped with vapor-tight caps; and
  - (6) The Stage I vapor recovery system shall be capable of meeting the static pressure performance requirement of the following equation when pressure decay testing is performed as required in Section III.O.1.b.i. of this Title V permit:
    - (a)  $P_f = e^{-500.887/V}$ 

Where:

      - (b)  $P_f$  = Minimum allowable final pressure, inches of water
      - (c)  $V$  = Total ullage affect by the test, gallons
      - (d)  $E$  = Dimensionless constant equal to approximately 2.718

#### *b. Monitoring Requirements*

- i. The Permittee shall conduct each of the following tests at least once per calendar year:
  - (A) For every pressure/vacuum vent valve, a pressure/vacuum vent valve test as specified in RCSA §22a-174-30a(d)(4).
  - (B) A pressure decay test as specified in RCSA §22a-174-30a(d)(5).
  - (C) A vapor-space tie-in test as specified in RCSA §22a-174-30a(d)(7).
- ii. Any GDF subject to 40 CFR §63.11120 may use the test methods specified in 40 CFR §63.11120 in lieu of the method specified in RCSA §§22a-174-30a(d)(4) and (5). [RCSA §22a-174-30a(d)(6)]
- iii. The Permittee of any GDF who has installed a pressure management or vapor control device on a storage tank with a capacity of 250 gallons or greater, other than a device that is required to be installed and tested by RCSA §22a-174-30a, shall test such devise annual by a method approved by the commissioner. [RCSA §22a-174-30a(d)(8)]
  - (A) At least sixty days prior to conducting an annual test, the Permittee shall submit a test protocol for review and approval on a form provided by the commissioner.

### Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall notify the Department's Bureau of Air Management, Field Operations Section in writing of the time and location of a test required by RCSA §22a-174-30a at least seven business days in advance. [RCSA §22a-174-30a(d)(9)(A)]
  - v. If any GDF fails any test required by RCSA §22a-174-30a, the Permittee shall take corrective actions and retest no later than sixty days after failing the test. [RCSA §22a-174-30a(d)(10)]
- c. *Record Keeping Requirements*
- i. The Permittee shall maintain the following records:
    - (A) All licenses, as defined in section 4-166 of the Connecticut General Statutes, to construct or operate the GDF or to construct or operate a specific system at the GDF; [RCSA §22a-174-30a(e)(1)(A)]
    - (B) All records and results of tests performed pursuant to RCSA §22a-174-30a(d), including the date of the testing and the names, addresses, and phone numbers of the persons who performed the tests; [RCSA §22a-174-30a(e)(1)(B)]
    - (C) A record of any maintenance or repair conducted on any part of the Stage I vapor recovery system, including a description of the maintenance or repair performed, identification of any part repaired or replaced on such Stage I vapor recovery system, the dates the maintenance or repair was performed, and a general description of the location of any part repaired or replaced; [RCSA §22a-174-30a(e)(1)(C)]
    - (D) A chronological file of all inspection reports issued by a representative of the commissioner or the Administrator for inspections performed at the GDF; [RCSA §22a-174-30a(e)(1)(D)]
    - (E) A chronological file of all compliance records, including orders, warnings and notices of violations, issued by a representative of the commissioner or the Administrator; and [RCSA §22a-174-30a(e)(1)(E)]
    - (F) A chronological register of daily throughput. [RCSA §22a-174-30a(e)(1)(F)]
  - ii. The Permittee shall display in a conspicuous location at the GDF, the address at which the records are maintained. [RCSA §22a-174-30a(e)(5)]
- d. *Reporting Requirements*
- The Permittee shall submit a copy of the test report on a form provided by the Department to the Department's Bureau of Air Management, Field Operations Section within ten days after performing a test. [RCSA §22a-174-30a(d)(9)(B)]

#### P. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4a(b)(1).
2. **Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
3. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.

### Section III: Applicable Requirements and Compliance Demonstration

4. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B).
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e.
18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
20. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or

### Section III: Applicable Requirements and Compliance Demonstration

demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.

21. **Dispensing of Gasoline:** The Permittee shall comply with the standards for dispensing of gasoline/Stage I vapor recovery as set forth in RCSA §22a-174-30a.
22. **General Provisions:** The Permittee shall comply with the Standards of Performance for New Stationary Sources as set forth in 40 CFR Part 60 Subpart A.
23. **General Provisions:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants as set forth in 40 CFR Part 63 Subpart A.
24. **Steam Generating Unit NSPS:** The Permittee shall comply with the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as set forth in 40 CFR Part 60, Subpart Db.
25. **Steam Generating Unit NSPS:** The Permittee shall comply with the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as set forth in 40 CFR Part 60, Subpart Dc.
26. **Shipbuilding and Ship Repair NESHAP:** The Permittee shall comply with the National Emissions Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair as set forth in 40 CFR Part 63 Subpart II.
27. **ICI Boilers and Process Heaters:** The Permittee shall comply with the National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters as set forth in 40 CFR Part 63 Subpart DDDDD.
28. **Asbestos NESHAP:** The Permittee shall comply with the National Emissions Standard for Asbestos as set forth in 40 CFR Part 61 Subpart M.
29. **Refrigerants:** The Permittee shall comply with the procedures for recycling and emissions reduction as set forth in 40 CFR Part 82 Subpart F (Protection of Stratospheric Ozone).
30. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
31. **Engine Identification:**
  - a. The Permittee shall create a list of each and every engine at the premises within 30 days of the issuance of this Title V permit (Application No. 202304120). Such list shall include the following information: [RCSA §22a-174-33(j)(1)(K)]
    - i. Assigned Emission Unit Number (EU);
    - ii. Assigned Grouped Emission Unit Number (GEU) as established in Section II.A, Table II.A of this Title V permit;
    - iii. Engine description (make and model);
    - iv. Installation date and/or applicable manufacture date;
    - v. DEEP license number, if applicable;
    - vi. Size category;
    - vii. Displacement

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

- viii. Fuel type;
  - ix. Capacity in bhp or kW;
  - x. Identification of the class of engine (i.e. emergency, non-emergency, fire-pump, existing/new, etc.)
  - xi. If the engine is operating in accordance with RCSA §22a-174-3b(g);
  - xii. If the engine is subject to RCSA §22a-174-22e;
  - xiii. If the engine is subject to 40 CFR Part 60 Subpart IIII;
  - xiv. If the engine is subject to 40 CFR Part 60 Subpart JJJJ;
  - xv. If the engine is subject to 40 CFR Part 63 Subpart ZZZZ;
  - xvi. Installation location; and
  - xvii. The date the list was created.
- b. The Permittee shall create a record of each and every engine at the premises on a monthly basis; updating the information in the list required by Section III.P.31.a of this Title V permit, or the most recent such record required by Section III.P.31.b of this Title V permit. The Permittee shall make such record within 30 days of the end of the previous month.  
[RCSA §22a-174-33(j)(1)(K)]
- c. The Permittee shall comply with Section III.B of this Title V permit for each engine identified as part of GEU-3 in the list created under Section III.P.31.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]
- d. The Permittee shall comply with Section III.C of this Title V permit for each engine identified as part of GEU-4 in the list created under Section III.P.31.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]
- e. The Permittee shall comply with Section III.D of this Title V permit for each engine identified as part of GEU-5 or GEU-82 in the list created under Section III.P.31.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]
- f. The Permittee shall comply with Section III.F of this Title V permit for each engine identified as part of GEU-6 in the list created under Section III.P.31.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]
- g. The Permittee shall comply with Section III.G of this Title V permit for each engine identified as part of GEU-13 in the list created under Section III.P.31.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]
- h. The Permittee shall comply with Section III.H of this Title V permit for each emergency engine identified as being subject to 40 CFR Part 63 Subpart ZZZZ in the list created under Section III.P.31.a or b of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]
- i. The Permittee shall comply with Section III.I of this Title V permit for each emergency engine identified as being subject to 40 CFR Part 60 Subpart IIII in the list created under Section III.P.31.a or b of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]
- j. The Permittee shall comply with Section III.J of this Title V permit for each emergency engine identified as being subject to 40 CFR Part 60 Subpart JJJJ in the list created under Section III.P.31.a or b of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

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

#### **32. Cold Solvent Cleaner Identification:**

- a. The Permittee shall create a list of each and every cold solvent cleaner at the premises within 30 days of the issuance of this Title V permit (Application No. 202304120). Such list shall include the following information: [RCSA §22a-174-33(j)(1)(K)]
  - i. Assigned Emission Unit Number (EU);
  - ii. Assigned Grouped Emission Unit Number (GEU) as established in Section II.A, Table II.A of this Title V permit;
  - iii. Cleaner description (make and model);
  - iv. Installation date and/or applicable manufacture date;
  - v. DEEP license number, if applicable;
  - vi. Capacity in gallons;
  - vii. If the cold solvent cleaner is operating in accordance with the applicable requirements found in RCSA §22a-174-20(l);
  - viii. Installation location; and
  - ix. The date the list was created.
- b. The Permittee shall create a record of each and every cold solvent cleaner at the premises on a monthly basis; updating the information in the list required by Section III.P.32.a of this Title V permit, or the most recent such record required by Section III.P.32.b of this Title V permit. The Permittee shall make such record within 30 days of the end of the previous month.  
[RCSA §22a-174-33(j)(1)(K)]
- c. The Permittee shall comply with Section III.K of this Title V permit for each cold cleaner identified in the list created under Section III.P.32.a or b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)]

#### **33. Miscellaneous Metal Parts Coating Operations Identification:**

- a. The Permittee shall create a list of each and every miscellaneous metal parts coating operation at the premises within 30 days of the issuance of this Title V permit (Application No. 202304120). Such list shall include the following information: [RCSA §22a-174-33(j)(1)(K)]
  - i. Assigned Emission Unit Number (EU);
  - ii. Assigned Grouped Emission Unit Number (GEU) as established in Section II.A, Table II.A of this Title V permit;
  - iii. Coater description (make and model);
  - iv. Installation date and/or applicable manufacture date;
  - v. DEEP license number, if applicable;
  - vi. Capacity in gallons;
  - vii. If the coating operation is operating in accordance with the applicable requirements found in RCSA §22a-174-20(s);
  - viii. Installation location; and
  - ix. The date the list was created.

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

- b. The Permittee shall create a record of each and every miscellaneous metal parts coating operation at the premises on a monthly basis; updating the information in the list required by Section III.P.33.a of this Title V permit, or the most recent such record required by Section III.P.33.b of this Title V permit. The Permittee shall make such record within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)]
- c. The Permittee shall comply with Section III.L of this Title V permit for miscellaneous metal parts coating operation identified in the list created under Section III.P.33.a or b of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

#### **34. Miscellaneous Non-Metal Coating Operations Identification:**

- a. The Permittee shall create a list of each and every miscellaneous non-metal coating operation at the premises within 30 days of the issuance of this Title V permit (Application No. 202304120). Such list shall include the following information: [RCSA §22a-174-33(j)(1)(K)]
  - i. Assigned Emission Unit Number (EU);
  - ii. Assigned Grouped Emission Unit Number (GEU) as established in Section II.A, Table II.A of this Title V permit;
  - iii. Coater description (make and model);
  - iv. Installation date and/or applicable manufacture date;
  - v. DEEP license number, if applicable;
  - vi. Capacity in gallons;
  - vii. If the coating operation is operating in accordance with the applicable requirements found in RCSA §22a-174-3b(g), if applicable;
  - viii. Installation location; and
  - ix. The date the list was created.
- b. The Permittee shall create a record of each and every miscellaneous non-metal coating operation at the premises on a monthly basis; updating the information in the list required by Section III.P.34.a of this Title V permit, or the most recent such record required by Section III.P.34.b of this Title V permit. The Permittee shall make such record within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)]
- c. The Permittee shall comply with Section III.M of this Title V permit for each miscellaneous non-metal coating operation identified in the list created under Section III.P.34.a or b of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

**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>
		No Steps are required for achieving compliance at this time		

## Section V: State Enforceable Terms and Conditions

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

### SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

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

- H.** The Permittee shall comply with the requirements for Architectural and Industrial Maintenance Coatings as set forth in RCSA §22a-174-41.
- I.** The Permittee shall comply with the requirements for Adhesives and Sealants as set forth in RCSA §22a-174-44.

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

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

### **SECTION VI: TITLE V REQUIREMENTS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

## Section VI: Title V Requirements

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

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

### **N. PERMIT AVAILABILITY**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

## **Print for Compliance Certification or Enforcement**

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

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

Print Enforcement Checklist

Print Compliance Certification