



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**

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

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

<b>Title V Permit Number</b>	213-0081-TV
<b>Client/Sequence/Town/Premises Numbers</b>	130/04/213/02
<b>Date Issued</b>	October 11, 2022
<b>Expiration Date</b>	October 11, 2027

**Corporation:**

*Hamilton Sundstrand Corporation – Collins Aerospace, A Raytheon Technologies Company*

**Premises Location:**

*One Hamilton Road, Windsor Locks, CT 06096*

**Name of Responsible Official and Title:**

*Ryan C. Hudson, Vice President Aftermarket Services – Power & Controls*

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

 for

\_\_\_\_\_  
Katherine S. Dykes  
Commissioner

October 11, 2022

\_\_\_\_\_  
Date

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## **Title V Operating Permit**

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

## LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
AIRS	Air Information Retrieval System
AP-42	Compilation of Air Pollution Emission Factors
ASC	Actual Stack Concentration
ASTM	American Society for Testing and Materials
cc	Cubic Centimeters
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
dm <sup>3</sup>	Cubic Decimeter
DOT	Department of Transportation
EU	Emissions Unit
EPA	Environmental Protection Agency
°F	Degree Fahrenheit
FIRE	Factor Information Retrieval Software
gal	Gallons
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
HC	Hydrocarbons
HP	Horsepower
hr	Hour
HVLP	High Volume Low Pressure
ICE	Internal Combustion Engine
ISO	International Organization for Standardization
kg	Kilogram
kW	Kilowatt
lb	Pound
lbs	Pounds
m <sup>3</sup>	Cubic Meter
MASC	Maximum Allowable Stack Concentration
MeCl	Methylene Chloride
MMBtu	Million British Thermal Units
MMft <sup>3</sup>	Million Cubic Feet
mmHg	Millimeters of Mercury
MW	Megawatt
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSR	New Source Review
O <sub>2</sub>	Oxygen
OSHA	Occupational Health and Safety Administration
Pb	Lead
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 microns

**LIST OF ABBREVIATIONS/ACRONYMS, continued**

PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
psia	Pounds per Square Inch Absolute
RCSA	Regulations of Connecticut State Agencies
RICE	Reciprocating Internal Combustion Engine
SCC	Standard Classification Code
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>x</sub>	Sulfur Oxides
tpy	Tons per year
TSP	Total Suspended Particulate
µg	Micrograms
ULSD	Ultra Low Sulfur Diesel
VOC	Volatile Organic Compound
yr	Year

## Section I: Premises Information/Description

### A. PREMISES INFORMATION

Nature of Business: Manufacturer of aircraft and spacecraft control systems and components  
Primary SIC: 3728  
Other SIC: none

Facility Mailing Address: One Hamilton Road, Windsor Locks, CT 06096  
Telephone Number: 860-654-6000

### B. PREMISES DESCRIPTION

Hamilton Sundstrand Corporation - Collins Aerospace, A Raytheon Technologies Company (HSC) designs and manufactures aircraft and spacecraft control systems and components for the aerospace and marine industries at their Windsor Locks facility.

HSC has a number of pieces of registered and permitted fuel burning equipment, along with fuel burning equipment that is not required to be registered or permitted. These units include oil and natural gas fired boilers, diesel emergency engines, diesel non-emergency engines, natural gas heating units and engine test cells. HSC operates a 5.4 MW cogeneration system (EU-34), which is subject to 40 CFR Part 60 Subpart KKKK. EU-34's permit (No. 213-0115) contains a condition limiting premises-wide NOx emissions to 40 tpy, which is 80% of the major source threshold. This condition makes the facility an area source for NOx, and thereby exempts the facility from the provisions of RCSA 22a-174-22e.

HSC operates four emergency engines that are subject to 40 CFR Part 63 Subpart ZZZZ, three emergency engines subject to 40 CFR Part 60 Subpart IIII, and four non-emergency engines subject to 40 CFR Part 60 Subpart IIII.

There is one registered boiler at the facility. This boiler is EU-7 and is located in the Building 1 Powerhouse. It is registered to burn natural gas only. The boiler is not subject to any numerical emission limits under Subpart JJJJJ since it burns natural gas only. Therefore, the boiler is exempt from the NESHAP.

There is one gas-fired boiler in Building 1, EU-48, which was installed in August 2019, and is not subject to permitting. It is subject to 40 CFR 60 Subpart Dc (New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units). The boiler is not subject to any numerical emission limits under Subpart JJJJJ since it burns natural gas only.

HSC has an open-top vapor degreaser, two stills, test rigs and hand wiping operations which are subject to Consent Order No. 8029A. HSC operates one open-top vapor degreaser, several cold cleaning units and flush rigs that are subject to RCSA §22a-174-20(l) as well as Consent Order No. 8029A.

HSC's surface coating operations consist of various permitted spray booths plus one spray booth operating in accordance with RCSA §22a-174-3b(g). HSC also has multiple grinding operations, aqueous cleaning systems, injection molding units, and packaging operations that are not required to be permitted.

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

HSC is also subject to 40 CFR Part 63 Subpart HHHHHH - National Emissions Standards for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources and 40 CFR Part 63 Subpart WWWW - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations.

HSC exceeds the major source threshold for the following pollutants: CO, VOC and GHGs.



**Section II: Emissions Units Information**

**A. EMISSIONS UNITS DESCRIPTION**

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

<b>TABLE II.A: EMISSIONS UNIT DESCRIPTION</b>						
<b>Emissions Units</b>	<b>Grouped Emissions Units</b>	<b>Emissions Unit Description</b>	<b>Date of Construction</b>	<b>Size Rating/ Design Capacity and Fuel Type</b>	<b>Control Unit Description</b>	<b>Permit (P), Order (O), Registration (R) or Regulation</b>
EU-7		Riley Boiler No. 3 (Building 1 Power House)	8/1952	62 MMBtu/hr Natural Gas	Low NOx Burner	213-0054-R
EU-9		Test Cell D	1968	8 MMBtu/hr Jet Fuel – Evaporative	None	213-0094-R
EU-10		Test Cell E	1998	44 MMBtu/hr Jet A, JP-4, JP- 5, JP-8	None	P 213-0047
EU-14	GEU-12	Heat Exchanger Coating Facility	12/1993	22 gal/hr	Panel Filters	P 213-0043
EU-15		SLS Coating Facility (four booths)	1/1994	11.72 gal/hr per booth	Panel Filters	P 213-0044
EU-19		Binks Spray No. 1	11/2000	1.1 gal/hr	Panel Filters	P 213-0085
EU-20		Binks Spray Booth No. 2	2/2001	1.1 gal/hr	Panel Filters	P 213-0086
EU-21		E63847 Open Top Vapor Degreaser (non-exempt VOC)	6/2001	74 gal	Freeboard Refrigeration	RCSA §22a-174-20(l) O 8029A
EU-23		F0651 Still (non-exempt VOC)	1/2001	77 gal	Refrigerated Condenser	O 8029A

**Section II: Emissions Units Information**

<b>TABLE II.A: EMISSIONS UNIT DESCRIPTION</b>						
<b>Emissions Units</b>	<b>Grouped Emissions Units</b>	<b>Emissions Unit Description</b>	<b>Date of Construction</b>	<b>Size Rating/ Design Capacity and Fuel Type</b>	<b>Control Unit Description</b>	<b>Permit (P), Order (O), Registration (R) or Regulation</b>
EU-25		F0652 Still (exempt VOC)	1/2001	77 gal	Refrigerated Condenser	O 8029A
EU-27		E45170 Open Top Vapor Degreaser (exempt VOC)	6/2001	220 gal	Freeboard Refrigeration	O 8029A
	GEU-8	Hand Wiping Operations	Varies	Varies	None	O 8029A
	GEU-9	Cold Cleaning Units and Flush Rigs	Varies	Varies	None	RCSA §22a-174-20(l) O 8029A
	GEU-10	Test Rigs	Varies	Varies	None	O 8029A
EU-34		Cogeneration Facility Consisting of a 5.4 MW Solar Taurus 60 Gas Turbine, a 31.27 MMBtu/hr Coen Duct Burner and a Rentech Heat Recovery Steam Generator	9/2010	5.4 MW Natural Gas & ULSD Fuel Oil	Low NOx Combustor, Oxidation Catalyst SCR	P 213-0115 40 CFR Part 60 Subpart KKKK
EU-35		F0598 Rockhard Booth	11/2000	3 gal/day	Activated Carbon, Potassium Permanganate Adsorption	RCSA §22a-174-3b(g)
EU-36	GEU-3	Katolight 150 kW Emergency Generator	Prior to 2004	1.4 MMBtu/hr ULSD Fuel Oil	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
EU-37		John Deere 605TF0012 300kW Emergency Pump	Prior to 2004	1.16 MMBtu/hr ULSD Fuel Oil	None	
EU-38	GEU-4	Cummings K10317A Emergency Fire Pump	4/1967	0.95 MMBtu/hr ULSD Fuel Oil	None	40 CFR Part 63 Subpart ZZZZ
EU-42		Cummins 20 kW Emergency Generator	1991	0.23 MMBtu/hr ULSD Fuel Oil	None	

**Section II: Emissions Units Information**

<b>TABLE II.A: EMISSIONS UNIT DESCRIPTION</b>						
<b>Emissions Units</b>	<b>Grouped Emissions Units</b>	<b>Emissions Unit Description</b>	<b>Date of Construction</b>	<b>Size Rating/ Design Capacity</b>	<b>Control Unit Description</b>	<b>Permit (P), Order (O), Registration (R) or Regulation</b>
EU-40	GEU-55	Generac 500 kW Black Start Emergency Generator A	9/2012	4.29 MMBtu/hr ULSD Fuel Oil	None	RCSA §22a-174-3b(e) RCSA §22a-174-22f 40 CFR Part 60 Subpart IIII
EU-41		Generac 500 kW Black Start Emergency Generator B	9/2012	4.29 MMBtu/hr ULSD Fuel Oil	None	
EU-43		Cummins DSGAE 200 kW Emergency Generator C	2/2014	2.03 MMBtu/hr ULSD Fuel Oil	None	
EU-44	GEU-13	Volvo TWD 1643 GE 600 kW Tier IV Generator	12/2016	5.6 MMBtu/hr ULSD Fuel Oil	Ammonia Slip Catalyst; SCR	40 CFR Part 60 Subpart IIII RCSA §22a-174-22f (For Non-Emergency Engines)
EU-45		Volvo TWD 1672 GE 550 kW Tier IV Generator	4/2019	5.5 MMBtu/hr ULSD Fuel Oil	Ammonia Slip Catalyst; SCR	
EU-49		Blue Star VD250-02FT4 250 kW Tier IV Generator	12/2019	2.58 MMBtu/hr ULSD Fuel Oil	Ammonia Slip Catalyst; SCR	
EU-50		Blue Star VD600-02FT-4 Serial No. 117371-1, 600 kW Tier IV Generator	2/2022	5.73 MM Btu/hr ULSD Fuel Oil	Ammonia Slip Catalyst; SCR	
EU-48		Victory Energy DT-2 Boiler No. 6 (Building 1 Power House)	6/2019	61.1 MMBtu/hr Natural Gas	Low Nox Burner, Flue Gas Recirculator	40 CFR 60 Subpart Dc
Misc. Units	GEU-100	Paint Stripping and Miscellaneous Surface Coating Operations	Various Dates	varies	None	40 CFR Part 63 Subpart HHHHHH
Misc. Units	GEU-200	Plating and Polishing Operations	Various Dates	varies	Composite Mesh Pad, Packed Bed Scrubber, or Mesh Pad Mist Eliminator	40 CFR Part 63 Subpart WWWWWW

## Section II: Emissions Units Information

### B. OPERATING SCENARIO IDENTIFICATION

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

<b>TABLE II.B: OPERATING SCENARIO IDENTIFICATION</b>	
<b>Emissions Units Associated with the Scenario</b>	<b>Description of Scenario</b>
All emissions units listed in Section II.A, Table II.A of this Title V permit.	All emissions units shall be operated in accordance with applicable permit or regulation terms and conditions.

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

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

#### **A. Riley Boilers No. 3 (EU-7) (Registrations – 213-0054-R)**

##### **1. Allowable Fuels**

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

- i. The Permittee shall use only natural gas in EU-7.  
[213-0054-R; Modification December 5, 2012]
- ii. The Permittee shall operate EU-7 as a gas-fired boiler as defined by 40 CFR 63 Subpart JJJJJ. [40 CFR §63.11237]

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

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

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

- i. The Permittee shall maintain records sufficient to indicate the type of fuel burned in EU-7.  
[RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.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)]

#### **B. EMISSIONS UNIT 9 (EU-9) - Test Cell D (213-0094-R)**

##### **1. Allowable Fuels**

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

The Permittee shall use only aviation fuel oil with sulfur content not exceeding 0.3% by weight, dry basis. [213-0094-R, RCSA §22a-174-19b(d)]

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

Record keeping specified in Section III.B.1.c of this Title V permit shall be sufficient to meet other

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

Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

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

*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. EMISSIONS UNIT 10 (EU-10) – Test Cell E**

**(P 213-0047)**

##### **1. Allowable Fuels**

*a. Limitation or Restriction*

The Permittee shall use only Jet-A, JP-4, JP-5, JP-8 and comparably formulated aviation turbine fuels not to exceed 0.3% sulfur by weight, dry basis. [P 213-0047; RCSA §22a-174-19b(d)]

*b. Monitoring and Testing Requirements*

The Permittee shall monitor the type and sulfur content of the fuels burned in EU-10. [P 213-0047]

*c. Record Keeping Requirements*

The Permittee shall keep records of fuel shipping receipts and certifications. Each fuel oil shipment for EU-10 shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [P 213-0047]

*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. Maximum Fuel Consumption**

*a. Limitation or Restriction*

- i. The maximum daily fuel consumption shall not exceed 7,000 gallons from May 1 through September 30 and shall not exceed 7,800 gallons from October 1 through April 30. [P 213-0047]
- ii. The maximum annual fuel consumption shall not exceed 217,000 gallons for all fuels combined.

### Section III: Applicable Requirements and Compliance Demonstration

[P 213-0047]

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

- i. The Permittee shall monitor daily and annual fuel consumption. Fuel consumption shall be monitored by the use of a fuel metering device to continuously monitor fuel feed to EU-10. [P 213-0047]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of daily fuel consumption [P 213-0047]
- ii. The Permittee shall keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [P 213-0047]

#### *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. Criteria Pollutant Maximum Allowable Emissions

#### *a. Limitation or Restriction*

- i. The Permittee shall not exceed the emission limits stated herein at any time. [P 213-0047]
  - (A) TSP
    - (1) 3.84 lb/hr
    - (2) 0.09 lb/MMBtu
    - (3) 1.28 tpy
  - (B) PM<sub>10</sub>
    - (1) 3.84 lb/hr
    - (2) 0.09 lb/MMBtu
    - (3) 1.28 tpy
  - (C) SO<sub>x</sub>
    - (1) 13.70 lb/hr
    - (2) 4.57 tpy
  - (D) NO<sub>x</sub>

### Section III: Applicable Requirements and Compliance Demonstration

- (1) 12.57 lb/hr
- (2) 4.20 tpy
- (E) VOC
  - (1) 14.95 lb/hr
  - (2) 5.00 tpy
- (F) CO
  - (1) 10.63 lb/hr
  - (2) 3.55 tpy
- (G) Pb
  - (1) 0.00254 lb/hr
  - (2) 0.0008 tpy

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

The Permittee shall calculate the emission rates using emission factors from the following sources:  
[P 213-0047]

- i. TSP, VOC, CO: AIRS dated March 1990 for SCC Code 20400102 Aircraft Engine Testing (turboshaft). Factor for TSP is 11.8 lbs/1000 gallons burned. VOC factor is 46.0 lbs/1000 gallons burned. CO factor is 32.7 lbs/1000 gallons burned.
- ii. SO<sub>x</sub>: EPA FIRE version 6.2 and maximum sulfur content of 0.3% for an emission factor of 42 lbs/1000 gallons burned.
- iii. NO<sub>x</sub>: EPA and DOT “Joint Report to Congress on the EPA-DOT Study of Nitrogen Oxide Emissions and their Control from Uninstalled Aircraft Engines in Enclosed Test Cells”, dated September 1994, Table 3-4 “Predicted Emission Characteristics for a Turboprop/Turboshaft Model Test Cell”, maximum factor of 5.5 lbs/thousand pounds of fuel, density of 845 kg/m<sup>3</sup>. Note that 1 gallon= 3.785 dm<sup>3</sup> and 1000 dm<sup>3</sup> =1 m<sup>3</sup>.
- iv. Pb: AP-42 section 3.1 “Stationary Gas Turbines for Electricity Generation”, dated 10/96, Table 3.1-4, Trace Element Emission Factors for Distillate Oil-Fired Turbines (SCC 2-01-001-01). Factor is given as 5.8e-5 pounds per MMBtu. Assume 0.135 MMBtu/gallon unless otherwise documented.
- v. The above statements shall not preclude the commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with Section III.C.3.a of this Title V permit, as allowed by state or federal statute, law or regulation.

#### *c. Record Keeping Requirements*

The Permittee shall verify compliance with the annual emission rates stated in Section III.C.3.a of



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

this Title V permit by calculating emissions no later than 15 days after the end of each month. [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. Opacity**

### *a. Limitation or Restriction*

- i. Opacity shall be no greater than 20% over any five consecutive minutes. [P 213-0047]
- ii. Opacity shall not exceed forty percent (40%) as measured by 40 CFR, appendix A, reference method 9, reduced to a one-minute block average. [RCSA §22a-174-18(b)(1)(B)]

### *b. Monitoring and Testing Requirements*

If required by the commissioner the Permittee shall measure opacity using 40 CFR Part 60, Appendix A, Reference Method 9. [RCSA §22a-174-5(e)(2); 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.C.4.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

### *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)]

## **D. GROUP EMISSIONS UNIT (GEU-12) – EU-14, EU-15, EU-19 and EU-20**

### **Miscellaneous Metal Parts Coating Booths**

**(P 213-0043, P 213-0044, P 213-0085, and P 213-0086)**

## **1. VOC and PM**

### *a. Limitation or Restriction*

- i. The maximum allowable VOC content per gallon of coating, as applied (lb/gal), minus exempt VOC and water, shall be limited such that the emission limits in Sections III.D.1.a.iii and iv of this Title V permit are not exceeded. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
- ii. Maximum allowable coating usage (gal/hr, gal/day, gal/yr) shall be limited such that the emission limits in Sections III.D.1.a.iii and iv of this Title V permit are not exceeded. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]

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

- iii. The total VOC emissions from all miscellaneous metal parts and products surface coating operations at this premises shall be limited to 1,666 lb/month. Exceedance of this limit shall subject this source to the requirements of RCSA §22a-174 20(s).  
[P 213-0043; P 213-0044; P 213-0085; P 213-0086]
- iv. Emissions of VOC shall not exceed
  - (A) For EU-14: 208 lb/month, 1.25 tpy [P 213-0043]
  - (B) For EU-15: 8.22 lb/day, 1.5 tpy [P 213-0044]
  - (C) For EU-19: 7.86 lb/day, 1.43 tpy [P 213-0085]
  - (D) For EU-20: 7.86 lb/day, 1.43 tpy [P 213-0086]
- v. Emissions of PM shall not exceed:
  - (A) For EU-19: 0.0257 lb/day, 0.005 tpy [P 213-0085]
  - (B) For EU-20: 0.0257 lb/day, 0.005 tpy [p 213-0086]
- vi. The coating and cleaner usage limits apply to any of the following components or mixtures of the following components: Paint, Enamel, lacquer, Catalyst, Primer, Reducer, Sealer, Diluent, Additive, or other Coating Material or Preparation.  
[P 213-0043; P 213-0044; P 213-0085; P 213-0086; RCSA §22a-174-33(j)(1)(K)(ii)]

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

- i. The Permittee shall monitor compliance with Section III.D.1.a of this Title V permit using material balances from usage data and material safety data sheets.  
  
The above statement shall not preclude the commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with the emission limits in Section III.D.1.a of this Title V permit, as allowed by state or federal statute.  
[P 213-0043; P 213-0044; P 213-0085; P 213-0086]
- ii. The Permittee shall cover all open drums and vessels that contain solvents, cleaners, coatings, or cleaning rags so as to minimize the amount of VOCs emitted to the atmosphere. Empty containers shall be disposed of in a manner consistent with handling techniques for hazardous materials, as applicable. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
- iii. The Permittee shall monitor the pressure drop across the filter system in inches of water/mercury to ensure it doesn't exceed the manufacturer's recommendations.  
[P 213-0043]
- iv. The Permittee shall operate and maintain the Aluminum Heat Exchanger Coating Process in accordance with the manufacturer's specifications and written recommendations.  
[P 213-0043]
- v. The Permittee shall properly operate the control equipment for the Aluminum Heat Exchanger Coating Process at all times that this equipment is in operation or emitting

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pollutants.

[P 213-0043]

- vi. The Permittee shall comply with any stipulation and recommendations set by the manufacturer for maintaining and operating the spray gun, spray booth, and particulate filter in order to achieve their guaranteed transfer and capture efficiencies. The control equipment shall be in place at all times. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of all coatings and cleaners used in each booth. Such records shall contain the following information: [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
  - (A) A current list of coatings in use with name, VOC content as applied, minus exempt VOC and water, and solids content as applied; and
  - (B) A current list of cleaners in use with name, VOC content as applied, minus exempt VOC and water, and solids content as applied.
- ii. The Permittee shall keep the following records daily and monthly for each booth: [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
  - (A) Date of application;
  - (B) Name of coating or cleaner used;
  - (C) Amount of each coating and cleaner used in the booth;
  - (D) Hours of operation [P 213-00043 and P 213-0044 only];
  - (E) Amount of VOC emitted (lb or ton);
  - (F) Amount of PM<sub>10</sub> emitted (lb or ton); and
  - (G) For each day the spray booth is in use the Permittee shall make and keep a record of the pressure drop across the filter system inches of water/mercury.  
[P 213-0043 only]
- iii. The Permittee shall keep records of annual VOC and PM emissions for each booth. The 12 month record of VOC and PM emissions shall be determined by adding the current month's record to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
- iv. The Permittee shall maintain material safety data sheets or manufacturer's technical data sheets for each coating and cleaner currently in use and for five years after the discontinuation of use of a coating or cleaner. Such material safety data sheets or manufacturer's technical data sheets shall include the quantity and type of each hazardous air pollutant contained in the coating or cleaner. [P 213-0043; P 213-0044; P 213-0085; P 213-

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0086]

- v. The Permittee shall keep records of manufacturer's specifications and written recommendations for maintenance and operation of the equipment. [P 213-0043]
- vi. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.D.1.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### 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 21 (EU-21)

#### E63847 Open-Top Vapor Degreaser – Non Exempt VOC (RCSA §22a-174-20(l); O 8029A)

#### 1. VOC

##### a. Limitation or Restriction

The Permittee shall comply with the requirements of RCSA §22a-174-20(l). [O 8029A]

##### b. Equipment Design and Operating Standards

- i. The Permittee shall equip EU-21 with a cover that can be opened and closed easily without disturbing the vapor zone. [O 8029A; RCSA §22a-174-20(1)(4)(A)]
- ii. The Permittee shall provide the following safety switches for EU-21:
  - (A) A condenser flow switch and device which shuts off the sump heat if the condenser coolant is not circulating or if the vapor level rises above the height of the primary condenser; and
  - (B) A spray safety switch which shuts off the spray pump if the vapor level drops more than 10 centimeters (4 inches) below the lowest condensing coil. [O 8029A; RCSA §22a-174-20(1)(4)(B)]
- iii. The Permittee shall ensure that EU-21 be equipped with one of the following control devices:
  - (A) Powered cover, if the freeboard ratio is greater than or equal to 0.75, and if the degreaser opening is greater than 1 square meter (10 square feet);
  - (B) Refrigerated chiller;
  - (C) Enclosed design (cover door opens only when the dry part is actually entering or exiting the degreaser);
  - (D) Carbon adsorption system, with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of solvent/vapor

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- area (when cover is open), and exhausting less than 25 parts per million of degreasing solvent averaged each complete adsorption cycle; or
- (E) A control system, demonstrated to have control efficiency equivalent to or greater than that required of the carbon adsorption system required above which is approved by the commissioner by permit or order. [O 8029A; RCSA §22a-174-20(1)(4)(C)]
- iv. The Permittee shall keep the cover closed at all times except when processing workloads through the degreaser. [O 8029A; RCSA §22a-174-20(1)(4)(D)]
- v. The Permittee shall store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, such that greater than 20 percent of waste degreasing solvent (by weight) can evaporate into the atmosphere. [O 8029A; RCSA §22a-174-20(1)(4)(E)]
- vi. The Permittee shall minimize solvent carryout by:
- (A) Racking parts to allow complete drainage.
- (B) Moving parts in and out of the degreasing unit at less than 3.3 meters per minute (11 feet/minute);
- (C) Holding the parts in the vapor zone at least 30 seconds or until condensation ceases, whichever is longer;
- (D) Tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
- (E) Allowing parts to dry within the degreasing unit for at least 15 seconds or until visually dry, whichever is longer. [O 8029A; RCSA §22a-174-20(1)(4)(F)]
- vii. The Permittee shall not degrease porous or absorbent materials, such as cloth, leather, wood or rope. [O 8029A; RCSA §22a-174-20(1)(4)(G)]
- viii. The Permittee shall not occupy more than half of EU-21 open top area with a workload. [O 8029A; RCSA §22a-174-20(1)(4)(H)]
- ix. The Permittee shall not load EU-21 to the point where the vapor level would drop more than ten centimeters (four inches) when the workload is removed from the vapor zone. [O 8029A; RCSA §22a-174-20(1)(4)(I)]
- x. The Permittee shall always spray within the vapor level. [O 8029A; RCSA §22a-174-20(1)(4)(J)]
- xi. The Permittee shall operate EU-21 so as to prevent water from being visually detectable in solvent exiting the water separator. [O 8029A; RCSA §22a-174-20(1)(4)(K)]
- xii. The Permittee shall not expose EU-21 to drafts greater than 40 meters per minute (131 feet per minute) as measured between 1 and 2 meters upwind and at the same elevation as the tank lip, nor provide exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreasing unit open area, unless

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necessary to meet OSHA requirements. [O 8029A; RCSA §22a-174-20(1)(4)(L)]

- xiii. The Permittee shall not operate EU-21 with any visible solvent leak until such leak is repaired.  
[O 8029A; RCSA §22a-174-20(1)(4)(M)]
- xiv. The Permittee shall provide a permanent, conspicuous label on or posted near EU-21 summarizing the applicable operating requirements. [O 8029A; RCSA §22a-174-20(1)(4)(N)]
- xv. The Permittee shall locate the cover required in Section III.E.1.b.i of this Title V permit below the lip exhaust if EU-21 is equipped with a lip exhaust. [RCSA §22a-174-20(1)(4)(P)]

#### *c. Monitoring Requirements*

The Permittee shall monitor the operation of EU-21 to ensure that all equipment design and operating standards are met as specified in Section III.E.1.b of this Title V permit.  
[RCSA §22a-174-33(j)(1)(K)(ii); 40 CFR §70.6(a)(3)(i)]

#### *d. Record Keeping Requirements*

- i. The Permittee shall maintain a monthly record of solvent added to EU-21.  
[RCSA §22a-174-20(1)(4)(O)]
- ii. The Permittee shall maintain purchase records for all materials which contain VOC, and which are used or stored at this premises. [O 8029A]
- iii. The Permittee shall maintain the results of any VOC emissions testing performed pursuant to RCSA §22a-174-32(f). [O 8029A]
- iv. The Permittee shall keep documentation on the methodology used to calculate the facility's VOC emissions including the calculation of waste. [O 8029A]

#### *e. 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. EMISSIONS UNIT 23 (EU-23) – F0651 Still – Non-Exempt VOC (O 8029A)**

#### **1. Minimum VOC recovery Rate**

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

The minimum VOC recovery rate shall be no less than 95% of the VOC being condensed.  
[O 8029A]

##### *b. Monitoring Requirements*

- i. The Permittee shall operate the condenser coil coolant temperature on EU-23 at or below

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95% of the boiling point of the solvent in use. [O 8029A]

- ii. The Permittee shall ensure that all waste solvent (before being recovered in the solvent recovery still) and all waste sludge residues (before being sent out as waste product) be stored in closed containers. [O 8029A]
- iii. The Permittee shall cease operation of EU-23 whenever the solvent recovery still coolant temperature, circulating through the condenser coil, exceeds 95% of the boiling point temperature of the solvent in use. [O 8029A]
- iv. The Permittee shall monitor the condenser coil outlet coolant temperature on EU-23 by a trip alarm set to 95% of the boiling point temperature of the solvent in use. [O 8029A]

#### *c. Record Keeping Requirements*

- i. The Permittee shall maintain records of all malfunctions of EU-23. [O 8029A]
- ii. The Permittee shall maintain purchase records for all materials which contain VOC, and which are used or stored at this premises. [O 8029A]
- iii. The Permittee shall maintain the results of any VOC emissions testing performed pursuant to RCSA §22a-174-32(f). [O 8029A]
- iv. The Permittee shall keep documentation on the methodology used to calculate the facility's VOC emissions including the calculation of waste. [O 8029A]

#### *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)]

### **G. EMISSIONS UNIT 25 (EU-25) - F0652 Still – Exempt VOC (O 8029A)**

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

The Permittee shall use only non-VOC solvents or solvents containing only exempt VOCs in EU-25. [O 8029A]

#### *b. Monitoring Requirements*

The Permittee shall monitor solvent use to ensure that only non-VOC solvents or solvents that contain exempt VOCs are used when operating EU-25. Exempt VOCs are defined as those compounds explicitly excluded from the definition of VOC in 40 CFR §51.100(s). [O 8029A]

#### *c. Record Keeping Requirements*

The Permittee shall maintain records of all solvents added to EU-25. Such records shall include

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the name of the solvent added, date solvent was added and the amount of solvent added.  
[O 8029A]

*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)]

#### **H. EMISSIONS UNIT 27 (EU-27) - E45170 Open-Top Vapor Degreaser – Exempt VOC (O8029A)**

##### **1. Maximum Allowable VOC Content of Solvents**

*a. Limitation or Restriction*

The Permittee shall use only non-VOC solvents or solvents containing only exempt VOCs in EU-27. [O 8029A]

*b. Monitoring Requirements*

The Permittee shall monitor solvent use to ensure that only non-VOC solvents or solvents that contain exempt VOCs are used when operating EU-27. Exempt VOCs are defined as those compounds explicitly excluded from the definition of VOC in 40 CFR §51.100(s). [O 8029A]

*c. Record Keeping Requirements*

The Permittee shall maintain records of all solvents added to EU-27. Such records shall include the name of the solvent added, date solvent was added, and the amount of solvent added.  
[O 8029A]

*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)]

#### **I. GROUPED EMISSIONS UNIT 8 (GEU-8) Hand Wiping Operations – VOC (O 8029A)**

##### **1. Hand Wiping Operations**

*a. Limitation or Restriction*

The Permittee shall comply with the work practices and operating standards for hand wipe activities required by Order No. 8029A. [O 8029A]

*b. Work Practices and Operating Standards*

- i. The Permittee shall store all dirty cloths and paper rags, which are to be disposed of, in



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covered containers until final disposal. [O 8029A]

- ii. The Permittee shall store all dirty rags, which are to be cleaned and recycled, in covered containers until they are ready to be cleaned. [O 8029A]
- iii. The Permittee shall ensure that rags being used for hand wiping are not visibly dripping VOC during use. [O 8029A]
- iv. The Permittee shall equip the dispensing containers for the solvents used in the hand wipe activities with a lid or similar device which is closed when not in use. [O 8029A]

#### *c. Record Keeping Requirements*

The Permittee shall maintain records sufficient to demonstrate that the work practices and operating standards in Section III.I.1.b are met. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *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)]

### **J. GROUPED EMISSIONS UNIT 9 (GEU-9) COLD CLEANING UNITS AND FLUSH RIGS – VOC (RCSA §22a-174-20(l); O 8029A)**

#### **1. VOC**

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

The Permittee shall comply with the equipment design and operating standards for GEU-9 as required by RCSA §22a-174-20(l). [RCSA §22a-174-20(l)(3); O 8029A]

##### *b. Equipment Design and Operating Standards*

- i. The Permittee shall equip the units in GEU-9 with covers that are easily operated with one hand. [RCSA §22a-174-20(l)(3)(A)]
- ii. The Permittee shall equip units in GEU-9 with internal racks or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage racks or equipment may be external for applications where an internal type cannot fit into the cleaning system. [RCSA §22a-174-20(l)(3)(B)]
- iii. The Permittee shall collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(l)(3)(C)]
- iv. The Permittee shall close the cover of any unit in GEU-9 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)]
- v. The Permittee shall drain the cleaned parts for at least 15 seconds or until dripping ceases,

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whichever is longer. [RCSA §22a-174-20(1)(3)(E)]

- vi. The Permittee, if a degreasing solvent spray is used, shall:
    - (A) supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray),
    - (B) maintain a solvent spray pressure that does not exceed ten (10) pounds per square inch as measured at the pump outlet, and,
    - (C) perform spraying within the confines of the cold cleaning unit.  
[RCSA §22a-174-20(1)(3)(F)]
  - vii. The Permittee shall minimize the drafts across the top of each unit in GEU-9 such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, and at the same elevation as the tank lid.  
[RCSA §22a-174-20(1)(3)(G)]
  - viii. The Permittee shall not operate a unit in GEU-9 upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling.  
[RCSA §22a-174-20(1)(3)(H)]
  - ix. The Permittee shall provide a permanent, conspicuous label on or posted near each unit in GEU-9 summarizing the applicable operating requirements. [RCSA §22a-174-20(1)(3)(I)]
  - x. The Permittee shall only use solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius except for units in GEU-9 used for special and extreme solvent metal cleaning. [RCSA §22a-174-20(1)(3)(K); RCSA §22a-174-20(1)(8)(A)]
  - xi. The Permittee shall not clean sponges, fabric, wood, leather, paper and other absorbent material in a unit in GEU-9. [RCSA §22a-174-20(1)(3)(L)]
  - xii. Sections III.J.1.b.vi and Section III.J.1.b.vii of this Title V permit shall not apply to any unit in GEU-9 used for special or extreme solvent metal cleaning if the Permittee complies with the following requirements:
    - (A) limits the amount of solvent consumed in special and extreme solvent metal cleaning spray operations at the premises, excluding solvent captured and recycled, to less than 3,000 gallons in any 12 month period, and
    - (B) uses a solvent with a VOC content less than 7.7 pounds per gallon.  
[RCSA §22a-174-20(1)(7)]
- c. *Monitoring and Testing Requirements*

The Permittee shall monitor the monthly amount of solvent added to each unit in GEU-9.

[RCSA §22a-174-33(j)(1)(K)(ii)]

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#### *d. Record Keeping Requirements*

- i. The Permittee shall maintain the following records for each unit in GEU-9: [RCSA §22a-174-20(1)(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 the records of the amount of solvent consumed in special and extreme solvent metal cleaning spray operations at the premises, excluding solvent captured and recycled, on a monthly and rolling 12 month basis. The 12 month record shall be determined by adding the current month's record to that of the previous 11 months. These calculations shall be made on a monthly basis. [RCSA §22a-174-20(1)(7)(C)]

#### *e. 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)]

### **K. GROUPED EMISSIONS UNIT 10 (GEU-10)**

#### **Test Rigs – VOC**

#### **(O 8029A)**

#### **1. Allowable Test Fluids**

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

The Permittee shall only use JP-4, JP-8, Jet A and Iso-octane aviation fuels, Stoddard solvent, or another physio-chemically equivalent compound with a vapor pressure of less than 3.1 mmHg at 70 °F. [O 8029A]

##### *b. Equipment Design and Operating Standards*

- i. The Permittee shall, at the beginning of each work shift, inspect fittings and hoses for leaks prior to operation of any rig in GEU-10, and a log verifying these leak check inspections shall be maintained at each rig, and initialed and dated by the person performing the inspection. Leaks shall be fixed, whenever they are detected, and recorded as such in the log. No test rig is to be run until the leak is repaired. [O 8029A]
- ii. The Permittee shall immediately contain and clean any spills during transfer to and from the supply reservoir or released from a slipped hose fitting. All wipe rags used for spill cleanup shall be stored in a closed container until proper disposal. [O 8029A]

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- iii. The Permittee shall not remove the parts and hoses from the unit's drain table, after each run, until dripping has stopped. [O 8029A]
- c. *Record Keeping Requirements*
  - i. The Permittee shall maintain and keep records of all aviation fuels, or calibration fluids, or other fluids dispensed to any rig in GEU-10 and for spent fuels and fluids removed from any rig in GEU-10 as waste. These records should at a minimum include the date, the fluid name and the amount in gallons or pounds. [O 8029A]
  - ii. The Permittee shall record the name of each compound used, the vapor pressure of each compound, the percent VOC content by weight of each compound, the amount of each compound used in gallons and the amount of each compound's manifested waste. [O 8029A]
  - iii. The Permittee shall maintain purchase records for all materials which contain VOC, and which are used or stored at this premises. [O 8029A]
  - iv. The Permittee shall maintain the results of any VOC emissions testing performed pursuant to RCSA §22a-174-32(f). [O 8029A]
  - v. The Permittee shall keep documentation on the methodology used to calculate the facility's VOC emissions including the calculation of waste. [O 8029A]
- d. *Reporting Requirements*
  - i. If the Permittee needs to use another VOC containing compound with a vapor pressure greater than 3.1 mmHg at 70 °F, the Permittee shall submit a report detailing the technical and economic issues of using such compound(s) to the Department and obtain the commissioner's written approval prior to the use of such compound(s). [O 8029A]
  - ii. The Permittee shall notify the commissioner, in writing, within 30 days of the installation of a new test rig or the elimination of any existing test rig. [O 8029A]

#### **L. EMISSIONS UNIT 34 (EU-34) – Cogeneration Facility (Permit No. 213-0115)**

##### **1. Operational Parameters and Design Specifications**

- a. *Limitation or Restriction*
  - i. Fuel Types – Turbine: [P 213-0115]
    - (A) Natural Gas
    - (B) No. 2 oil (ULSD)
  - ii. Maximum Fuel Firing Rates – Turbine: [P 213-0115]
    - (A) Natural Gas: 67,078 ft<sup>3</sup>/hr
    - (B) No. 2 oil (ULSD): 420 gal/hr
  - iii. Maximum Gross Heat Input – Turbine: [P 213-0115]
    - (A) Natural Gas: 67.08 MMBtu/hr

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(B) No. 2 oil (ULSD): 58.82 MMBtu/hr

- iv. Fuel Types – Duct Burner: Natural gas only [P 213-0115]
- v. Maximum Fuel Firing Rate – Duct Burner: 31,270 ft<sup>3</sup>/hr
- vi. Maximum Gross Heat Input – Duct Burner: 31.27 MMBtu/hr @1,000 Btu/scf [P 213-0115]
- vii. The maximum allowable fuel consumption shall not exceed the following over any consecutive 12 month period: [P 213-0115]

(A) Turbine (natural gas) - 587.6 MMft<sup>3</sup>

(B) Turbine (ULSD) - 420,000 gal

(C) Duct Burner (natural gas) – 274 MMft<sup>3</sup>

*b. Monitoring and Testing Requirements*

The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor the fuel feed to the turbine and the duct burner. [P 213-0115]

*c. Record Keeping Requirements*

The Permittee shall keep records of monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 213-0115]

*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. Maximum Allowable Fuel Sulfur Content

*a. Limitation or Restriction*

Maximum allowable fuel oil sulfur content shall not exceed 0.0015% by weight, dry basis. [P 213-0115]

*b. Monitoring and Testing Requirements*

The Permittee shall monitor the sulfur content in the fuel oil used by EU-34. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

The Permittee shall keep records of (1) the fuel certification for each delivery of fuel oil from a bulk petroleum provider; or (2) performing an analysis using the method found in ASTM D129, or alternatively D1266, D1552, D2622, D4294, or D5453; or (3) a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 213-0115]

*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

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commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

#### 3. Maximum Allowable Pollutant Emissions

##### a. Limitation or Restriction

i. The Permittee shall not cause or allow EU-34 to exceed the emission limits stated herein at any time. [P 213-0115]

(A) Turbine Operating on Natural Gas (Criteria Pollutants) [P 213-0115]

(1) PM<sub>10</sub>/PM<sub>2.5</sub>

(a) 0.017 lb/MMBtu

(b) 1.11 lb/hr

(2) SO<sub>2</sub>

(a) 0.0016 lb/MMBtu

(b) 0.11 lb/hr

(3) NO<sub>x</sub>

(a) 2.5 ppmvd @ 15% O<sub>2</sub>

(b) 0.11 lb/MMBtu

(c) 0.74 lb/hr

(4) VOC/HC

(a) 7.77E-03 lb/MMBtu

(b) 0.52 lb/hr

(5) CO

(a) 10.0 ppmvd @15% O<sub>2</sub>

(b) 0.027 lb/MMBtu

(c) 1.80 lb/hr

(6) Ammonia: 5.0 ppmvd @ 15% O<sub>2</sub>

(B) Turbine Operating on ULSD (Criteria Pollutants) [P 213-0115]

(1) PM<sub>10</sub>/PM<sub>2.5</sub>

(a) 0.019 lb/MMBtu

(b) 1.11 lb/hr

(2) SO<sub>2</sub>

(a) 1.52E-03 lb

(b) 0.11 lb/hr

(3) NO<sub>x</sub>

(a) 9.6 ppmvd @15% O<sub>2</sub>

(b) 0.042 lb/MMbtu

(c) 2.49 lb/hr

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- (4) VOC/HC
  - (a) 0.039 lb/MMBtu
  - (b) 2.29 lb/hr
- (5) CO
  - (a) 20.0 ppmvd @ 15% O<sub>2</sub>
  - (b) 0.054 lb/MMBtu
  - (c) 3.19 lb/hr
- (6) Pb
  - (a) 1.40E-05 lb/MMBtu
  - (b) 8.24E-04 lb/hr
- (7) Ammonia: 5.0 ppmvd @15% O<sub>2</sub>
- (C) Turbine and Duct burner operating on Natural Gas (Criteria Pollutants) [P 213-0115]
  - (1) PM<sub>10</sub>/PM<sub>2.5</sub>
    - (a) 0.011 lb/MMBtu
    - (b) 1.11 lb/hr
  - (2) SO<sub>2</sub>
    - (a) 0.0016 lb/MMBtu
    - (b) 0.161 lb/hr
  - (3) NO<sub>x</sub>
    - (a) 2.5 ppmvd @ 15% O<sub>2</sub>
    - (b) 0.010 lb/MMBtu
    - (c) 0.98 lb/hr
  - (4) VOC/HC
    - (a) 0.007 lb/MMBtu
    - (b) 0.69 lb/hr
  - (5) CO
    - (a) 10.0 ppmvd @15% O<sub>2</sub>
    - (b) 0.026 lb/MMBtu
    - (c) 2.60 lb/hr
  - (6) Pb
    - (a) 1.88E-07 lb/MMBtu
    - (b) 1.53E-05 lb/hr
  - (7) Ammonia: 5.0 ppmvd@15% O<sub>2</sub>
- (D) Total Annual Emission Limits (Criteria Pollutants) [P 213-0115]

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- (1) PM<sub>10</sub>/PM<sub>2.5</sub>: 4.86 tpy
- (2) SO<sub>2</sub>: 0.71 tpy
- (3) NO<sub>x</sub>: 5.26 tpy
- (4) VOC: 3.82 tpy
- (5) CO: 11.39 tpy

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

- i. The Permittee shall continuously monitor the SCR aqueous ammonia injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits in this Title V permit. [P 213-0115]
- ii. 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 this Title V permit. [P 213-0115]
- iii. The Permittee shall inspect the SCR and oxidation catalysts once per year, at a minimum, or more frequently if recommended by manufacturer. [P 213-0115]
- iv. The Permittee shall operate and maintain EU-34 in accordance with the manufacturer's specifications and written recommendations. [P 213-0115]
- v. The Permittee shall properly operate the control equipment at all times that the turbine or turbine and duct burner are in operation and emitting air pollutants. [P 213-0115]
- vi. The Permittee shall conduct stack testing, in accordance with the latest CT DEEP Emission Test Guidelines, for the following operating modes: (1) turbine on natural gas, (2) turbine on ULSD, and (3) turbine on natural gas and duct burner on natural gas.
- vii. Stack testing for the turbine operating on ULSD shall be deferred until such time ULSD is combusted in the turbine. Once ULSD is combusted in the turbine the Permittee shall do the following: [P 213-0115]
  - (A) Notify the commissioner within 15 days of commencing operating the turbine on ULSD;
  - (B) Submit an ITT application to the commissioner within 30 days of commencing operating the turbine on ULSD; and
  - (C) Perform stack testing for operating mode the turbine on ULSD within 60 days of receipt of approval of the ITT application.
- viii. Recurrent stack testing for NO<sub>x</sub>, CO and ammonia shall be conducted within five years from the date of the previous stack test. [P 213-0115]
- ix. Annual/Biennial stack testing for NO<sub>x</sub> shall be performed to demonstrate compliance with the NO<sub>x</sub> emission limits in accordance with 40 CFR §60.4400 [P 213-0115]
- x. Stack test results shall be reported as follows: all pollutants in units of lb/hr, NO<sub>x</sub> and CO in units of ppmvd at 15% O<sub>2</sub>, ammonia in units of µg/m<sup>3</sup> and ppmvd at 15% O<sub>2</sub>. All values will be reported for ISO Conditions (59 °F, 14.7 psia and 60 percent relative humidity). [RCSA §22a-174-33(j)(1)(K)(ii); P 213-0115]



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#### *c. Record Keeping Requirements*

- i. The Permittee shall continuously record the SCR aqueous ammonia injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed. [P 213-0115]
- ii. The Permittee shall continuously record the oxidation catalyst inlet temperature (°F). [P 213-0115]
- iii. The Permittee shall keep records of each delivery of aqueous ammonia. The records shall include the date of delivery, the name of the supplier, the quantity of aqueous ammonia delivered, and the percentage of ammonia in solution, by weight. [P 213-0115]
- iv. The Permittee shall keep records of the inspection and maintenance of the SCR and oxidation catalysts. The records shall include the name of the inspector, the date, the results or actions and the date the catalyst is replaced. [P 213-0115]
- v. The Permittee shall calculate and record the monthly and consecutive 12 month PM<sub>2.5</sub>, PM<sub>10</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. [P 213-0115]
- vi. The Permittee shall keep records, when the turbine/duct burner is changed for routine maintenance, to include the following: [P 213-0115]
  - (A) The date the turbine/duct burner was changed;
  - (B) The reason for the change;
  - (C) Documentation that the replacement turbine/duct burner is the same make and model number or equivalent.
  - (D) Documentation of all associated fixed capital costs; and
  - (E) Documentation showing that the replacement turbine/duct burner does not result in an increase in emissions, the emission of any new air pollutants, or increases in electrical output of the turbine.

#### *d. Reporting Requirements*

- i. The Permittee shall notify the commissioner in writing of any malfunction of the stationary gas turbine, duct burner or the air pollution control equipment. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P213-0115]
  - (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, to the Administrator, a written report of the results of each performance test required by Section III.L.3.b.ix of this Title V permit before the close of business on the 60<sup>th</sup> day following completion of the performance test. [40 CFR §60.4375(b)]
- 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)]

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### 4. Startup and Shutdown

#### a. Limitation or Restriction

- i. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints: [P 213-0115]
  - (A) Start the ammonia injection as soon as minimum catalyst temperature is reached.
  - (B) The oxidation catalyst shall not be bypassed during startup or shutdown.
  - (C) The duration of startup shall not exceed 60 minutes for a hot start or a warm start, nor 240 minutes for a cold start.
    - (1) A “hot start” shall be defined as startup when the turbine has been down for less than 8 hours.
    - (2) A “warm start” shall be defined as startup when the turbine has been down for more than 8 hours, but less than 24 hours.
    - (3) A “cold start” shall be defined as startup when the turbine has been down for more than 24 hours. The duration of shutdown shall not exceed 60 minutes.
- ii. (A) CO
  - (1) Startups:
    - (a) Natural Gas: 15.7 lb per event
    - (b) ULSD: 24.5 lb per event
  - (2) Shutdowns:
    - (a) Natural Gas: 6.9 lb per event
    - (b) ULSD: 9.6 lb per event
- (B) NOx
  - (1) Startups:
    - (a) Natural Gas: 0.8 lb per event
    - (b) ULSD: 1.7 lb per event
  - (2) Shutdowns:
    - (a) Natural Gas: 0.4 lb per event
    - (b) ULSD: 0.8 lb per event
- iii. Emissions during startup and shutdown events shall be counted towards the annual emission limits stated Section III.L.3.a of this Title V permit. [P 213-0115]

#### b. Monitoring and Testing Requirements

- i. The Permittee shall operate and maintain this stationary combustion turbine, duct burner and air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [P 213-0115, 40 CFR §60.4333(a)]
- ii. Record keeping specified in Section III.L.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.

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[RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbine, duct burner or any malfunction of the air pollution control equipment. [P 213-0115; 40 CFR §60.7(b)]
- ii. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.L.4.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

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

## 5. Opacity

### *a. Limitation or Restriction*

- i. EU-34 shall not exceed 10% opacity during any 6 minute block average. [P 213-0115]
- ii. EU-34 shall not exceed forty percent (40%) opacity as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one-minute block average. [RCSA§22a-174-18(b)(1)(B)]

### *b. Monitoring and Testing Requirements*

If required by the commissioner the Permittee shall measure opacity using 40 CFR Part 60, Appendix A, Reference Method 9.

[RCSA §22a-174-33(j)(1)(K)(ii); P 213-0115]

### *c. Record Keeping Requirements*

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

### *d. Reporting Requirements*

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

## 6. Premises-Wide Cap for NO<sub>x</sub>

### *a. Limitation or Restriction*

Premise-wide NO<sub>x</sub> emissions shall not equal or exceed 40 tons in any 12 month consecutive period. [P 213-0115]

### *b. Monitoring and Testing Requirements*

The Permittee shall monitor fuel consumption for each fuel burning emissions unit at the premises including any temporary units, excluding only mobile sources as defined in RCSA §22a-174-1, under one of the following options. [P 213-0115]

- i. Fuel Meter:
  - (A) Using an individual non-resettable fuel meter; or
  - (B) Using a fuel meter that measures fuel supplied to a group of emissions units.

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- ii. Hourly Meter:
  - (A) Using an individual hourly meter; or
  - (B) Using an hourly meter for a group of emissions units.
- iii. In the absence of fuel or hourly meters, temporary units may use purchase records or invoices.

#### *c. Recordkeeping Requirements*

- i. The Permittee shall make and maintain a current record (list) of all fuel burning equipment at the premises, excluding only mobile sources as defined in RCSA §22a-174-1. The list shall include both permanent and temporary emissions units, as defined in RCSA §22a-174-22e, at the premises. The list shall include, at a minimum, the following information for each fuel burning emissions unit. [P 213-0115]
  - (A) A description; including make, model, location, and Emission Unit (EU) Number or other identification number;
  - (B) The maximum rated capacity;
  - (C) Identification of the fuel(s) used;
  - (D) Monitoring method in accordance with Section III.L.6.b of this Title V Permit, as well as the basis for such monitoring, i.e. New Source Review, Federal/State regulation or order number, where applicable;
  - (E) Emission factor for NO<sub>x</sub> and source of such factor; and
  - (F) The construction or placement date of temporary units and removal date, as applicable.
- ii. For each unit, or group of emissions units identified in accordance with Section III.L.6.c.i of this Title V permit using an hour meter to track operating hours, the Permittee shall make and maintain records of the monthly operating hours (for each fuel type used, if applicable). The permittee shall make these calculations within 30 days of the end of the previous month. [P 213-0115]
- iii. For each unit, or group of emissions units identified in accordance with Section III.L.6.c.i of this Title V permit using a fuel meter, the Permittee shall make and maintain records of monthly fuel consumption (for each fuel, if applicable). The Permittee shall make these calculations with 30 days of the end of the previous month. [P 213-0115]
- iv. The Permittee shall calculate and record the monthly consecutive 12 month NO<sub>x</sub> emissions for the premises. The consecutive 12 month NO<sub>x</sub> emissions shall be determined by adding the current month's NO<sub>x</sub> emissions to the of the previous 11 months for the premises. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 213-0115]
- v. The Permittee shall keep records of all purchase orders, invoices, emissions calculations methodology or other documents necessary to verify the records required by Section III.L.6.c of this Title V permit. [P213-0115]

#### *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, whichever, is earlier.

[RCSA §22a-174-33(j)(1)(X)]

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### M. EMISSIONS UNIT 35 (EU-35) - F0598 Rockhard Booth

[RCSA §22a-174-3b(g) Exemption from Permitting for Construction and Operation of Surface Coating Operations] [ STATE ONLY REQUIREMENT]

#### 1. Maximum VOC and HAP Content of Coatings

##### a. Limitation or Restriction

- i. The maximum VOC content of any coating used shall not exceed 6.3 lb/gal as applied. [RCSA §22a-174-3b(g)(1)(A)]
- ii. The maximum hazardous air pollutant content of any coating used shall not exceed 6.3 lb/gal as applied. – [RCSA §22a-174-3b(g)(1)(B)]
- iii. The maximum coating and solvent used, including diluents and cleanup solvents but excluding water, shall not, in any twelve (12) month rolling aggregate, exceed 3,000 gallons. [RCSA §22a-174-3b(g)(1)(C)]

##### b. Monitoring and Testing Requirements

- i. The Permittee shall monitor the VOC and HAP content per gallon of each coating and solvent used, as applied. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall monitor coating and solvent usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the type and quantity of coating and solvent used, in gallons, for each month and each twelve (12) month rolling aggregate. [RCSA §22a-174-3b(g)(3)(A)]
- ii. The Permittee shall make and keep records of the VOC and HAP content per gallon of each coating and solvent used, as applied. [RCSA §22a-174-3b(g)(3)(B)]

##### d. Reporting Requirements

The Permittee shall provide any records created in Section III.M.1.c, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [RCSA §22a-174-3b(i)(1)]

### N. GROUPED EMISSIONS UNIT 3 (GEU-3) - EU-36, and EU-37 Diesel Emergency Generators [RCSA §22a-174-3b(e); [40 CFR Part 63 Subpart ZZZZ]

#### 1. Maximum Operating Hours

##### a. Limitation or Restriction

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

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[STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(e)(2)]

*b. Monitoring and Testing Requirements*

The Permittee shall monitor hours of operation for each engine in GEU-3 on a monthly basis.  
[RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

i. The Permittee shall maintain records of hours of operation for each engine in GEU-3 on a monthly basis and for each 12 month rolling aggregate.

[STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(e)(4)]

ii. The Permittee shall maintain records sufficient to demonstrate compliance with the maximum hours of operation for five years from the date such record is created.

[STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(e)(3)]

*d. Reporting Requirements*

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

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

iii. The Permittee shall submit additional information in writing, at the commissioner’s request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier.

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

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

*a. Limitation or Restriction*

Any nongaseous fuel used in GEU 3 shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in RCSA §22a-174-42 nor the applicable limitations set forth in table 19b-1 of RCSA §22a-174-19b. [RCSA §22a-174-19b]

*b. Monitoring and Testing Requirements*

The Permittee shall monitor the sulfur content for any nongaseous fuel burned in each engine in GEU-3. [RCSA §22a-174-33(j)(1)(K)(ii)]

*c. Record Keeping Requirements*

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

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- i. The quantity of fuel purchased for combustion. [RCSA §22a-174-19b(g)(3)]
- ii. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used:  
RCSA §22a-174-19b(g)]
  - (A) A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel as a condition of each shipment. The certification or contract should include the items specified in RCSA §22a-174-19b(g)(3).
  - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location

#### d. Reporting Requirements

- i. The Permittee shall provide any required records, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(i)(1)]
- ii. Any record requested pursuant to Section III.N.2.d.i above shall be submitted with a certification in accordance with section 22a-174-2a(a) of the Regulations of Connecticut State Agencies. [STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(i)(2)]
- iii. The Permittee shall submit additional information in writing, at the commissioner’s request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

### 3. 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

**(Engine Classification: Existing Emergency Compression Ignition RICE less than 500 HP constructed before June 12, 2006, at an area source)**

#### a. Limitation or Restriction

- i. The Permittee shall change the oil and filter on each engine in GEU-3 every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(a)]
- ii. The Permittee shall inspect the air cleaner on each engine in GEU-3 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(b)]
- iii. The Permittee shall inspect all hoses and belts on each engine in GEU-3 every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(c)]
- iv. If an engine in GEU-3 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

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Sections III.N.3.a.i through iii 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 Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

#### *b. Monitoring, Operation and Maintenance Requirements*

- i. The Permittee shall operate and maintain each engine in GEU-3, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions, at all times.  
[40 CFR §63.6605(b)]
- ii. The Permittee shall operate and maintain each engine in GEU-3 and any after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- iii. The Permittee shall install a non-resettable hour meter if one is not already installed.  
[40 CFR §63.6625(f)]
- iv. The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. The Permittee shall demonstrate continuous compliance with the requirements in Section III.N.3.a of this Title V permit according to the methods specified in Section III.N.3.b.ii of this Title V permit. [40 CFR §63.6640(a); 40 CFR Part 63 Subpart ZZZZ, Table 6]
- vi. The Permittee shall operate each engine in GEU-3 according to the requirements in 40 CFR §§63.6640(f)(1) through (4). In order for each engine in GEU-3 to be considered an emergency stationary RICE under 40 CFR Part 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §§63.6640(f)(1) through (4), is prohibited. If the Permittee does not operate each engine in GEU-3 according to the requirements in 40 CFR §§63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and shall meet all requirements for non-emergency engines. [40 CFR §63.6640(f)]

**Note:** The operation of each engine in GEU-3 is further limited by Section III.N.1.a of this Title V permit.

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.  
[40 CFR §63.6655(a)(2)]
- iii. The Permittee shall keep records of actions taken during periods of malfunction to minimize



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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)]

- iv. The Permittee shall keep records demonstrating compliance with Section III.N.3.b.ii of this Title V permit. [40 CFR §63.6655(d)]
- v. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the Permittee operated and maintained the engine according to the Permittee's own maintenance plan. [40 CFR §63.6655(e)]
- vi. The Permittee shall 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 operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

#### *a. Reporting Requirements*

- i. The Permittee shall report each instance in which the Permittee did not meet the requirements in 40 CFR Part 63 Subpart ZZZZ, Table 2d and Table 8 that apply. [40 CFR §63.6640(b); 40 CFR §63.6640(e)]
- ii. The Permittee shall report any failure to perform the work practice on the schedule required, as specified in Section III.N.3.a of this Title V permit, and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

### **O. Group Emission Unit – 4 (GEU-4) - EU-38 and EU-42 Cummins K10317A Emergency Fire Pump and Cummins 20 kW Emergency Generator (40 CFR Part 63 Subpart ZZZZ)**

#### **1. 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**(Engine Classification: Existing Emergency Compression Ignition RICE less than 500 HP constructed before June 12, 2006, at an area source)**

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

- i. The Permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(a)]
- ii. The Permittee shall inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(b)]
- iii. The Permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6603(a); 40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(c)]
- iv. If any engine in GEU-4 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.O.1.a.i through iii 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

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risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.

[40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

#### *b. Monitoring, Operation and Maintenance Requirements*

- i. The Permittee shall operate and maintain the engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions, at all times. [40 CFR §63.6605(b)]
- ii. The Permittee shall operate and maintain the engine and any after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- iii. The Permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR §63.6625(f)]
- iv. The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. The Permittee shall demonstrate continuous compliance with the requirements in Section III.O.1.a of this Title V permit according to the methods specified in Section III.O.1.b.ii of this Title V permit. [40 CFR §63.6640(a); ; 40 CFR Part 63 Subpart ZZZZ, Table 6]
- vi. The Permittee shall operate the engine according to the requirements in 40 CFR §§63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under 40 CFR Part 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §§63.6640(f)(1) through (4), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR §§63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and shall meet all requirements for non-emergency engines. [40 CFR §63.6640(f)]

#### *a. Record Keeping Requirements*

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
- iii. The Permittee shall 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)]
- iv. The Permittee shall keep records demonstrating compliance with Section III.O.1.b.ii of this Title V permit. [40 CFR §63.6655(d)]
- v. The Permittee shall keep records of the maintenance conducted on the engine in order to

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demonstrate that the Permittee operated and maintained the engine according to the Permittee's own maintenance plan. [40 CFR §63.6655(e)]

- vi. The Permittee shall 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 operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

#### d. Reporting Requirements

- i. The Permittee shall report each instance in which the Permittee did not meet the requirements in 40 CFR Part 63 Subpart ZZZZ, Table 2d and Table 8 that apply. [40 CFR §63.6640(b); 40 CFR §63.6640(e)]
- ii. The Permittee shall report any failure to perform the work practice on the schedule required, as specified in Section III.O.1.a of this Title V permit, and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

### P. GROUPED EMISSIONS UNIT 55 (GEU-55) - EU-40, EU-41, and EU-43

**Generac 500 kW Black Start Emergency Generator A and B and Cummins DSGAE 200kW  
Emergency Generator**

[RCSA §22a-174-3b(e);  
CFR Part 60 Subpart III]

[RCSA §22a-174-22f; 40

#### 1. Maximum Operating Hours

##### a. Limitation or Restriction

Maximum operating hours for each engine in GEU-55 shall not be greater than 300 hours during any 12month rolling aggregate and each engine shall be operated only during periods of testing and scheduled maintenance or during an emergency as defined in RCSA §22a-174-22e.

[STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(e)(2)(C)]

##### b. Monitoring and Testing Requirements

The Permittee shall monitor hours of operation for each engine in GEU-55 on a monthly basis.

[RCSA §22a-174-33(j)(1)(K)(ii)]

##### c. Record Keeping Requirements

The Permittee shall maintain records of hours of operation for each engine in GEU-55 on a monthly basis and a 12 month rolling aggregate. Maximum annual operating hours shall be based on any consecutive 12 month time period and shall be determined by adding each month's operating hours to that of the previous 11 months for each engine in GEU-55.

[STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(e)(4)] [RCSA §22a-174-33(j)(1)(K)(ii)]

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#### d. Reporting Requirements

- i. The Permittee shall provide any records created in Section III.P.1.c, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(i)(1)]
- ii. Any record requested pursuant to Section III.P.1.d.i above shall be submitted with a certification in accordance with section 22a-174-2a(a) of the Regulations of Connecticut State Agencies. [STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(i)(2)]

## 2. Maximum Fuel Sulfur Content

#### a. Limitation or Restriction

The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by GEU-55. [STATE ONLY REQUIREMENT]– [RCSA §22a-174-3b(e)(2)(D)]

#### b. Monitoring and Testing Requirements

The Permittee shall monitor the sulfur content for the fuel burned in each engine in GEU-55. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### c. Record Keeping Requirements

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

- i. The quantity of fuel purchased for combustion. [RCSA §22a-174-19b(g)(3)]
- ii. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used: [RCSA §22a-174-19b(g)]
  - (A) A fuel certification for a delivery of non-gaseous from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel as a condition of each shipment. The certification or contract should include the items specified in RCSA §22a-174-19b(g)(3).
  - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location.

#### d. Reporting Requirements

- i. The Permittee shall provide any required records, or a copy thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(i)(1)]
- ii. Any record requested pursuant to Section III.P.2.d.i above shall be submitted with a certification in accordance with section 22a-174-2a(a) of the Regulations of Connecticut State Agencies. [STATE ONLY REQUIREMENT] [RCSA §22a-174-3b(i)(2)]

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- 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. NO<sub>x</sub>

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

The Permittee shall not operate any unit in GEU-55 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. [RCSA §22a-174-22f(d)(2)]

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

The Permittee shall monitor the hours of operation on a daily basis. [RCSA §22a-174-33(j)(1)(K)]

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

- i. The Permittee shall keep daily records of the operating hours of each engine, identifying the operating hours of emergency and non-emergency use and the reason for each period of emergency or non-emergency operation. [RCSA §22a-174-22f(g)(3)(A)]
- ii. The Permittee shall keep records of the dates and work performed for, repairs, replacement of parts and other maintenance for each engine in GEU-55. [RCSA §22a-174-22f(g)(3)(B)]
- iii. The Permittee shall keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22f. [RCSA §22a-174-22f(g)(3)(C)]

##### 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 60 Subpart IIII - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**(Engine Classification: Existing Emergency Compression Ignition RICE greater than 500 HP constructed after June 12, 2006, at an area source)**

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

- i. The Permittee shall comply with the emission standards for new nonroad compression ignition engines in 40 CFR §60.4202, for all pollutants, for the same model year and maximum engine

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power for each engine in GEU-55. [40 CFR §60.4205(b)]

- ii. The Permittee shall purchase diesel fuel that meets the requirements of 40 CFR §1090.305 for nonroad diesel fuel. [40 CFR §60.4207(b)]

#### *b. Monitoring, Operation and Maintenance Requirements*

- i. The Permittee shall operate and maintain each engine in GEU-55 to achieve the emission standards as required in Section III.P.4.a.i of this Title V permit over the entire life of the engine. [40 CFR §60.4206]
- ii. If any engine in GEU-55 does not meet the standards applicable to non-emergency engines as specified in Section III.P.4.a.i of this Title V permit, the Permittee shall install a non-resettable hour meter prior to startup of the engine. [40 CFR §60.4209(a)]
- iii. The Permittee shall do all of the following, except as permitted under Section III.P.4.b.v of this Title V permit: [40 CFR §60.4211(a)]
  - (A) Operate and maintain the stationary compression ignition internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  - (B) Change only those emission-related settings that are permitted by the manufacturer; and
  - (C) Meet the requirements of 40 CFR Part 1068, as it applies.
- iv. The Permittee shall ensure each engine in GEU-55 is certified to the emission standards in 40 CFR §60.4205(b) for the same model year and maximum engine power. The engines shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Section III.P.4.b.v of this Title V permit. [40 CFR §60.4211(c)]
- v. If the Permittee does not install, configure, operate, and maintain the engines in GEU-55 and control devices (if installed) 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 shall demonstrate compliance by following the requirements in 40 CFR §§60.4211(g)(1) through (3) based on the size of the engine. [40 CFR §60.4211(g)]
- vi. The Permittee shall operate the engines in GEU-55 according to the requirements in 40 CFR §§60.4211(f)(1) through (3). In order for each engine to be considered an emergency stationary ICE under 40 CFR Part 60 Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §§60.4211(f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in 40 CFR §§60.4211(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart III and shall meet all requirements for non-emergency engines. [40 CFR §60.4211(f)]

**Note:** The operation of each engine in GEU-55 is further limited by Section III.P.1.a of this Title V permit.
- vii. The Permittee shall comply with all monitoring and testing requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218]

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#### *c. Record Keeping Requirements*

- i. Starting with the model years in 40 CFR Part 60 Subpart III, Table 5, if the any unit in GEU-55 does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR §60.4214(b)]
- ii. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218]
- iii. The Permittee shall maintain appropriate records indicating compliance with the emission limitation and operational requirements in Sections III.P.4.a and b of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations, purchase records and internal operating procedures. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218]

### **Q. Grouped Emissions Units 13 (GEU-13) – EU-44, EU-45, EU-49 and 50**

#### **AB Tier IV Non-Emergency Generators (RCSA §22a-174-22f; 40 CFR Part 60 Subpart III)**

### **1. 40 CFR Part 60 Subpart III – National Emissions Standards for Hazardous Air Pollutants for Stationary reciprocating Internal Combustion Engines**

#### **(Engine Classification: New Non-Emergency Compression Ignition RICE)**

#### *a. Limitation or Restriction*

- i. The Permittee shall comply with the emission standards for new CI engines in 40 CFR §60.4201, as applicable for each unit in GEU-13. [40 CFR §60.4204(b)]
- ii. The Permittee shall purchase diesel fuel that meets the requirements of 40 CFR §1090.305 for nonroad diesel fuel. [40 CFR §60.4207(b)]

#### *b. Monitoring, Operation and Maintenance Requirements*

- i. The Permittee shall operate and maintain each unit in GEU-13 to achieve the emission standards as required in Section III.Q.1.a.i. of this Title V permit over the entire life of the engine. [40 CFR §60.4206]
- ii. The Permittee shall do all of the following, except as permitted under Section III.Q.1.b.v. of this Title V permit. [40 CFR §60.4211(a)]

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- (A) Operate and maintain the stationary reciprocating internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  - (B) Change only those emission-related settings that are permitted by the Manufacturer; and
  - (C) Meet the requirements of 40 CFR Parts 1068, as it applies.
- iii. The Permittee shall ensure all engines in GEU-13 are certified to the emission standards in 40 CFR §60.4204(b) for the same model year and maximum engine power. The engines shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Section III.Q.1.b.v. of this Title V permit. [40 CFR §60.4211(c)]
  - iv. If the Permittee does not install, configure, operate, and maintain the engines in GEU-13 and control devices (if installed) 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 shall demonstrate compliance by following the requirements in 40 CFR §§60.4211(g)(1) through (3) based on the size of the engine [40 CFR §60.4211(g)]
  - v. The Permittee shall comply with all monitoring and testing requirements of the General provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, Table 8 as applicable. [40 CFR §60.4218]

#### *c. Record Keeping Requirements*

- i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218]
- ii. The Permittee shall maintain appropriate records indicating compliance with the emission limitation and operational requirements in Sections III.Q.1.a. and b of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations, purchase records and internal operating procedures. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *d. Reporting Requirements*

The Permittee shall comply with all reporting requirements of the General provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart III, table 8 as applicable. [40 CFR §60.4218]

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

#### *a. Limitation or Restriction*

- i. If any emission unit in GEU-13 emits NO<sub>x</sub> at levels equal to or greater than 274 pounds on any day from May 1 to September 30, inclusive, the permittee shall thereafter operate the emission unit in compliance with section 22a-174-22e of the Regulations of Connecticut State Agencies. [RCSA §22a-174-22f(e)(2)]
- ii. The Permittee shall conduct an inspection and tune-up of each unit in GEU-13 a minimum of once per calendar year. Each annual tune-up shall be performed no earlier than 180 days after the previous tune-up was conducted. The inspection and tune-up of the emission unit shall be



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conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are not available, according to best available practices. [RCSA §22a-174-22f(f)(1)]

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

The Permittee shall monitor the hours of operation on a daily basis for each unit in GEU-13. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall make and keep the following records for each unit in GEU-13: [RCSA §22a-174 - 22f(g)(2)]
  - (A) During the period from May 1 to September 30, inclusive, records sufficient to determine the NOx emissions (lbs) per day;
  - (B) A calculation of NOx emissions on each day of operation, performed no later than the last day of each month for every day of operation in the preceding month;
  - (C) The method used to calculate daily NOx emissions and the information used to determine the NOx emissions rate, chosen from the following options;
    - (1) If data is available from continuous emissions monitoring (CEM) equipment installed, operated, and certified in accordance with a permit or order, or regulation issued or administered by the commissioner or the Administrator, or a commissioner approved voluntarily installed continuous emissions monitor, such data shall be used to determine the rate of emissions.
    - (2) If the data from CEM equipment is not available, and stack testing data are available, such stack testing data shall be used to determine the rate of emissions, provided such testing was conducted in accordance with protocols approved in writing by the commissioner in advance of testing.
    - (3) If CEM and or stack testing data is not available, the rate of emissions shall be calculated using data supplied by the manufacturer of the emission units, which data were derived from EPA-approved emissions testing of such units performed by or for the manufacturer.
    - (4) If CEM, stack testing or manufacturer data is not available, the rate of emissions shall be calculated using data or emissions estimation techniques that result in the highest rate of emissions from the following EPA publications;
      - (a) Compilation of Air Pollutant Emission factors (AP-42),
      - (b) AIRS Facility Subsystem Emission Factors, or
      - (c) The Emission Inventory Improvement Program (EIIP), or
    - (5) If data from the sources listed in Sections III.Q.2.c.i through (4)(c) is not available, the emission rate shall be calculated using another source of emissions data that is

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approved by the commissioner.

- (D) The date and work performed for repairs, replacement of parts and other maintenance;
- (E) For each emission unit, for each tune-up conducted pursuant to RCSA §22a-174-22f(f), 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, and
- (F) Copies of all documents submitted to the commissioner pursuant to §RCSA 22a-174-22f.

#### *d. Reporting Requirements*

- i. If an emission unit in GEU-13 exceeds a daily NO<sub>x</sub> emission threshold pursuant to Section III.Q.2.a.i of this Title V permit, the owner or operator shall submit a notification to the Compliance Analysis and Coordination Unit, Bureau of Air Management at the Department. Such a notification shall be submitted no later than 60 days after the date on which the daily NO<sub>x</sub> emissions thresholds were exceeded and shall include the following information: [RCSA §22a-174-22f(h)]
  - (A) Legal name(s), address(es) and telephone number(s) of the emission unit owner and operator. If the owner or operator is a corporation or a limited partnership transacting business in Connecticut, provide the exact name as registered with the Secretary of the State;
  - (B) Location address of the premises where the emission unit is located;
  - (C) Make and model of the emission unit;
  - (D) Each fuel type combusted in the emission unit;
  - (E) NO<sub>x</sub> emissions data for the subject emission unit, including emission rates or emissions factors, if available, or the manufacturer's estimates of emissions;
  - (F) If the emission unit is operated pursuant to a new source review permit or a registration, the type of license and license number;
  - (G) The longitude and latitude of the emission unit, in decimal degrees format;
  - (H) The location address in Connecticut where records required to demonstrate compliance with RCSA §22a-174-22f(e) are maintained;
  - (I) The date on which NO<sub>x</sub> emissions exceeded the threshold;
  - (J) A statement that the emission unit will be operated pursuant to the applicable requirements of section 22a-174-22e Regulations of Connecticut State Agencies; and
  - (K) A certification, as follows, signed by a person authorized by the owner or operator to execute and deliver such a submission on behalf of the owner or operator:

“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 is true,

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accurate and complete to the best of my knowledge and belief. I understand that any false statements 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 other applicable statute.”

#### **R. Emission Unit 48 (EU-48) - Victory Energy Boiler No. 6 (40 CFR 60 Subpart Dc)**

##### **1. Fuel Use**

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

EU-48 can only burn natural gas. [Manufacturer Design]

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

The Permittee shall monitor the amount of fuel combusted in EU-48 during each operating day. [40 CFR §60.48c(g)(1)]

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

- i. The Permittee shall record and maintain records of the amount of fuel combusted during each operating day of EU-48. [40 CFR §60.48c(g)(1)]

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

The permittee shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 §CFR 60.7. This notification shall include the following; [40 CFR §60.48c(a)]

- i. The design heat input capacity of the affected unit and identification of fuels to be combusted in the affected facility.
- ii. If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuel under 40 CFR §60.42c, or 40 CFR §60.43c.
- iii. The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels and based on each individual fuel fired. .

#### **S. Grouped Emission Unit 100 (GEU 100)**

##### **Paint Stripping and Miscellaneous Surface Coating Operations**

##### **(40 CFR Part 63 Subpart HHHHHH)**

#### **1. 40 CFR Part 63 Subpart HHHHHH – National Emissions Standards for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources.**

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

- i. The Permittee shall implement management practices to minimize the evaporative emissions of MeCl from paint stripping operations. The management practices shall address, at a minimum, the practices in 40 CFR §§63.11173(a)(1) through (a)(5), as applicable, for the Permittee’s operations. [40 CFR §63.11173(a)]

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- ii. The Permittee shall meet the requirements in 40 CFR §§63.11173(e)(1) through (e)(5), as applicable, for each miscellaneous surface coating operation. [40 CFR §63.11173(e)]
- iii. The Permittee shall ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in 40 CFR §63.11180, are trained in the proper application of surface coatings as required in 40 CFR §63.11173(e)(1). The training program shall include, at a minimum, the items listed in 40 CFR §§63.11173(f)(1) through (f)(3). [40 CFR §63.11173(f)]
- iv. The Permittee shall train and certify all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in 40 CFR §63.11180, no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in 40 CFR §63.11173(f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed. Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire. Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel shall receive refresher training that meets the requirements of 40 CFR Part 63 Subpart HHHHHH and be re-certified every five years. [40 CFR §63.11173(g)]
- v. The requirements of 40 CFR Part 63 Subpart HHHHHH do not apply to any of the activities described in 40 CFR §§63.11169(d)(1) through (6). [40 CFR §63.11169(d)]

#### *b. Monitoring Requirements*

The Permittee shall comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A) according to Table 1 of 40 CFR Part 63 Subpart HHHHHH. [40 CFR §63.11174(a)]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep copies of annual usage of paint strippers containing MeCl on site at all times from each paint stripping operation. [40 CFR §63.11173(c)]
- ii. The Permittee shall keep the certification that each painter has completed the training specified in 40 CFR §63.11173(f) with the date the initial training and the most recent refresher training was completed. [40 CFR §63.11177(a)]
- iii. The Permittee shall keep documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in 40 CFR §63.11173(e)(3)(i). [40 CFR §63.11177(b)]
- iv. The Permittee shall keep documentation from the spray gun manufacturer that each spray gun with a cup capacity equal to or greater than 3.0 fluid ounces (89 cc) that does not meet the definition of an HVLP spray gun, electrostatic application, airless spray gun, or air assisted airless spray gun, has been determined by the Administrator to achieve a transfer efficiency equivalent to that of an HVLP spray gun, according to the procedure in 40 CFR §63.11173(e)(4). [40 CFR §63.11177(c)]
- v. The Permittee shall keep copies of any notification submitted as required by 40 CFR §63.11175 and copies of any report submitted as required by 40 CFR §63.11176. [40 CFR §63.11177(d)]
- vi. The Permittee shall keep records of paint strippers containing MeCl used for paint stripping operations, including the MeCl content of the paint stripper used. Documentation needs to be

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

sufficient to verify annual usage of paint strippers containing MeCl (e.g., material safety data sheets or other documentation provided by the manufacturer or supplier of the paint stripper, purchase receipts, records of paint stripper usage, engineering calculations).  
[40 CFR §63.11177(e)]

- vii. The Permittee shall keep records of any deviation from the requirements in 40 CFR §63.11173, 40 CFR §63.11174, 40 CFR §63.11175, or 40 CFR §63.11176. These records shall include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation. [40 CFR §63.11177(g)]
- viii. The Permittee shall keep records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report. [40 CFR §63.11177(h)]

#### *d. Reporting Requirements*

- i. The Permittee shall submit an annual notification of changes report in each calendar year in which information previously submitted in either the initial notification required by 40 CFR §63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in 40 CFR §§63.11173(a) through (d) or 40 CFR §§63.11173(e) through (g) on the date of the report will be deemed to be a change. This includes notification when paint stripping affected sources that have not developed and implemented a written MeCl minimization plan in accordance with 40 CFR §63.11173(b) used more than one ton of MeCl in the previous calendar year. The annual notification of changes report shall be submitted prior to March 1 of each calendar year when reportable changes have occurred and shall include the information specified in 40 CFR §63.1119(a)(1) through (2).  
[40 CFR §63.11176(a)]
- ii. If the Permittee has not developed and implemented a written MeCl minimization plan in accordance with 40 CFR §63.11173(b), the Permittee shall submit a report for any calendar year in which the Permittee uses more than one ton of MeCl. This report shall be submitted no later than March 1 of the following calendar year. The Permittee shall also develop and implement a written MeCl minimization plan in accordance with 40 CFR §63.11173(b) no later than December 31. The Permittee shall then submit a Notification of Compliance Status report containing the information specified in 40 CFR §63.11175(b) by March 1 of the following year and comply with the requirements for paint stripping operations that annually use more than one ton of MeCl in 40 CFR §63.11173(d) and 40 CFR §63.11177(f). [40 CFR §63.11176(b)]

#### **T. Grouped Emission Unit 200 (GEU 200)**

##### **Plating and Polishing Operations – Miscellaneous Units**

##### **(40 CFR Part 63 Subpart WWWWWW)**

#### **1. 40 CFR Part 63 Subpart WWWWWW - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations**

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

- i. For each electrolytic process tank, as defined in 40 CFR §63.11511, that contains one or more of the plating and polishing metal HAP, as defined in 40 CFR §63.11511, and operates at a pH of less than 12, the Permittee shall capture and exhaust emissions from the affected tank to any one of the following emission control devices: composite mesh pad, packed bed scrubber, or mesh pad mist

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

eliminator, according to 40 CFR §§63.11507(a)(2)(i) and (ii). [40 CFR §63.11507(a)]

- ii. For each process tank that is used both for short-term electroplating and for electrolytic processing of longer duration (i.e., processing that does not meet the definition of short-term or flash electroplating) and contains one or more of the plating and polishing metal HAP, as defined in 40 CFR §63.11511, the Permittee shall capture and exhaust emissions from the affected tank to any one of the following emission control devices: composite mesh pad, packed bed scrubber, or mesh pad mist eliminator, according to 40 CFR §§63.11507(a)(2)(i) and (ii). [40 CFR §63.11507(c)]
- iii. The Permittee shall implement the applicable management practices in 40 CFR §§63.11507(g)(1) through (12), as practicable. [40 CFR §63.11507(g)]
- iv. The requirements of 40 CFR Part 63 Subpart WWWW do not apply to any of the process units or operations described in 40 CFR §§63.11505(d)(1) through (6). [40 CFR §63.11505(d)]

#### *b. Monitoring Requirements*

- i. The Permittee shall be in compliance with the applicable management practices and equipment standards in 40 CFR Part 63 Subpart WWWW at all times. [40 CFR §63.11508(b)]
- ii. The Permittee shall satisfy the requirements specified in 40 CFR §§63.11508(d)(1) through (8) to demonstrate continuous compliance with the applicable management practices and equipment standards specified in 40 CFR Part 63 Subpart WWWW. [40 CFR §63.11508(d)]
- iii. The Permittee shall comply with the requirements of the General Provisions (40 CFR Part 63 Subpart A) according to Table 1 of 40 CFR Part 63 Subpart WWWW. [40 CFR §63.11510]

#### *c. Record Keeping Requirements*

- i. The Permittee shall keep a copy of any Initial Notification and Notification of Compliance Status that was submitted and all documentation supporting those notifications. [40 CFR §63.11509(e)(1)]
- ii. The Permittee shall keep the records specified in 40 CFR §§63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of 40 CFR Part 63. [40 CFR §63.11509(e)(2)]
- iii. The Permittee shall keep the records required to show continuous compliance with each management practice and equipment standard that applies, as specified in 40 CFR §63.11508(d). [40 CFR §63.11509(e)(3)]

#### *d. Reporting Requirements*

- i. If the Permittee makes a change to any items in 40 CFR §§63.11509(b)(2)(i), (iii), and (iv) that does not result in a deviation, an amended Notification of Compliance Status should be submitted within 30 days of the change. [40 CFR §63.11509(b)(3)]
- ii. The Permittee shall prepare an annual certification of compliance report according to 40 CFR §§63.11509(c)(1) through (7). These reports do not need to be submitted unless a deviation from the requirements of 40 CFR Part 63 Subpart WWWW has occurred during the reporting year, in which case, the annual compliance report shall be submitted along with the deviation report.

### Section III: Applicable Requirements and Compliance Demonstration

[40 CFR §63.11509(c)]

- iii. If any deviations from the compliance requirements specified in 40 CFR Part 63 Subpart WWWW occurred during the year, the Permittee shall report the deviations, along with the corrective action taken, and submit this report to the delegated authority. [40 CFR §63.11509(d)]

#### U. PREMISES-WIDE GENERAL REQUIREMENTS

##### Premises-Wide General Requirements

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
3. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
4. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9. **Variations:** 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.

### Section III: Applicable Requirements and Compliance Demonstration

14. **Fuel Sulfur Content:** On or after July 1, 2018, the Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B)
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e and 22a-174-22f, as applicable.
18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
20. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
21. **Maximum Annual HAP Emissions:** Emissions of HAPs from this premises shall be less than major source levels (less than 25 tpy of federal HAPs in aggregate, or less than 10 tpy of any individual HAP, or less than any quantity established by the Administrator pursuant to 40 CFR Part 63), thereby exempting the source from the requirements of an affected source under 40 CFR Part 63, Subpart GG, "Aerospace Manufacturing and Rework Facilities NESHAP". The Permittee shall maintain annual records of premises HAPs to demonstrate compliance with this requirement. [P 213-0043; P 213-0044; P 213-0085; P 213-0086]
22. **Chemical Accident Provisions:** The Permittee shall comply with all applicable requirements of the Chemical Accident Provisions as set forth in 40 CFR Part 68.
23. **Protection of Stratospheric Ozone:** The Permittee shall comply with the applicable standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.
24. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).



## **Section IV: Compliance Schedule**

**Section IV: Compliance Schedule – No steps are required for achieving compliance at this**

## Section V: State Enforceable Terms and Conditions

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

### State Enforceable Terms and Conditions

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

## Section VI: Title V Requirements

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

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

### **N. PERMIT AVAILABILITY**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

### **Y. CREDIBLE EVIDENCE**

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