



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.

| | |
|--|-----------------|
| Title V Permit Number | 070-0192-TV |
| Client/Sequence/Town/Premises Numbers | 89-001-070-0004 |
| Date Issued | March 24, 2022 |
| Expiration Date | March 24, 2027 |

Corporation:

Pfizer, Inc.

Premises Location:


445 Eastern Point Road, Groton, Connecticut 06340-5157

Name of Responsible Official and Title:

James Turner, Director, CT Site Lead, HR, GWS P&O

All the following attached pages, 2 through 79, are hereby incorporated by reference into this Title V permit.

for


Katherine S. Dykes
Commissioner

March 24, 2022
Date

TABLE OF CONTENTS

| | PAGE |
|--|------|
| List of Abbreviations/Acronyms | 5 |
| Section I. Premises Information/Description | |
| A. Premises Information..... | 7 |
| B. Premises Description. | 7 |
| Section II. Emissions Units Information | |
| A. Emissions Units Description - Table II.A..... | 10 |
| B. Operating Scenario Identification - Table II.B | 13 |
| Section III. Applicable Requirements and Compliance Demonstration | |
| A. Grouped Emissions Unit 6 | 14 |
| B. Emissions Unit 28 | 23 |
| C. Emissions Unit 40..... | 25 |
| D. Grouped Emissions Unit 1 | 37 |
| E. Grouped Emissions Unit 2..... | 40 |
| F. Grouped Emissions Unit 3..... | 44 |
| G. Emissions Unit (EU-35)..... | 46 |
| H. Grouped Emissions Unit 5 | 49 |
| I. Emissions Unit 33 | 52 |
| J. Emissions Unit 34 | 55 |
| K. Emissions Unit 38 | 59 |
| L. Emissions Unit 62..... | 62 |
| M. Grouped Emissions Unit 8..... | 67 |
| N. Grouped Emissions Unit 9 | 68 |
| O. Premises-Wide General requirements | 69 |
| Section IV. Compliance Schedule - Table IV | 71 |
| Section V. State Enforceable Terms and Conditions | 72 |
| Section VI. Title V Requirements | |
| A. Submittals to the Commissioner & Administrator | 74 |
| B. Certifications [RCSA §22a-174-33(b)]..... | 74 |
| C. Signatory Responsibility [RCSA §22a-174-2a(a)] | 74 |
| D. Additional Information [RCSA §22a-174-33(j)(1)(X), -33(h)(2)]..... | 75 |
| E. Monitoring Reports [RCSA §22a-174-33(o)(1)] | 75 |
| F. Premises Records [RCSA §22a-174-33(o)(2)] | 75 |
| G. Progress Reports [RCSA §22a-174-33(q)(1)]..... | 76 |
| H. Compliance Certifications [RCSA §22a-174-33(q)(2)]..... | 76 |
| I. Permit Deviation Notifications [RCSA §22a-174-33(p)] | 76 |
| J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)]..... | 76 |
| K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)] | 76 |
| L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)] | 77 |
| M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)]..... | 77 |
| N. Permit Availability..... | 77 |
| O. Severability Clause [RCSA §22a-174-33(j)(1)(R)] | 77 |
| P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)]..... | 77 |
| Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)] | 77 |

TABLE OF CONTENTS, continued

| | PAGE |
|--|------|
| Section VI. Title V Requirements, continued | |
| R. Property Rights [RCSA §22a-174-33(j)(1)(W)] | 77 |
| S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)] | 77 |
| T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)] | 78 |
| U. Information for Notification [RCSA §22a-174-33(r)(2)(A)] | 78 |
| V. Transfers [RCSA §22a-174-2a(h)] | 78 |
| W. Revocation [RCSA §22a-174-2a(h)] | 78 |
| X. Reopening for cause [RCSA §22a-174-33(s)] | 79 |
| Y. Credible Evidence | 79 |

Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

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

LIST OF ABBREVIATIONS/ACRONYMS, continued

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

Section I: Premises Information/Description

A. PREMISES INFORMATION

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

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

B. PREMISES DESCRIPTION

Pfizer, Inc. conducts research and development (R&D) operations at its Groton facility. The facility is a major source for CO and NOx and is in the “Serious non-attainment area for ozone” defined in 22a-174-1(103). Pfizer’s significant air emission units are on-site utilities (i.e., steam and electrical power generation) and emergency power generation equipment.

Powerhouse

Three Combustion Engineering boilers (EU-1, 2, and 3), located in Building 101 and make up Grouped Emission Unit 6 (GEU-6), produce superheated, high pressure steam that is used to generate electricity and heat buildings throughout the facility. The three boilers are registered (R 070-0007, 8, 9). All three boilers can fire natural gas and are equipped with low-NOx burners. Boilers 1 through 3 can also fire ULSD using low-NOx burners. All three boilers are equipped with NOx and Oxygen CEMs and are included in Trading Agreement and Order No. 8372 for NOx emission trading.

A Solar Mars 100S Turbine 10.5MW Combined Cycle Cogeneration System (EU-40) supplies electrical power and steam for the facility. The unit is designed to burn natural gas and ULSD fuel oil. The unit was issued the permit to construct and operate 070-0268 on 7/16/2008 and last modified on 11/25/2019. NOx emissions are controlled by selective catalytic reduction (SCR). CO and VOC emissions are controlled by an oxidation catalyst. The turbine is subject to the New Source Review Standard (NSPS) – Standards for Stationary Combustion Turbines (40 CFR Part 60 Subpart KKKK).

A 5.6 MW fuel cell (EU-63) was built on site by Fuel Cell Energy, Inc. in September 2016. EU-63 provides base load electrical power to the Pfizer Groton facility. The fuel cell is owned by Fuel Cell Energy, Inc. However, the emissions mainly in the form of VOCs and CO are assigned to Pfizer. The fuel cell does not require a permit as its emissions are below permitting thresholds for all pollutants. Furthermore EU-63 is not subject to any Federal or Connecticut State regulations. Pfizer only needs to report annual emissions for EU-63. Therefore EU-63 is listed only in the Table II.A. Emissions Units Description and not in the Section III of this Title V permit.

Other Boilers

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

Emergency Engines

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

Section I: Premises Information/Description

subject to the major source requirements of the rule, and the engines having an initial compliance date after June 19, 2008 are subject to the area source requirements of the rule.

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

GEU-1:

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

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

GEU-2:

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

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

GEU-3:

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

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

GEU-5:

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

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

Section I: Premises Information/Description

Ungrouped Engines:

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

- EU-33: B185 EG Kohler 30RZ – subject to 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated less than or equal to 500 bhp located at a major source of HAPs.
- EU-34: EQ Basin EG Onan 150 DGFA – subject to RCSA §22a-174-3b and 40 CFR Part 63 Subpart ZZZZ requirements for existing compression ignition engines located at a major source of HAPs.
- EU-38: B274S-3 EG Caterpillar 3406C-DITA – subject to RCSA §22a-174-3b; RCSA §22a-174-22e; and 40 CFR Part 63 Subpart ZZZZ requirements for new compression ignition engines rated greater than 500 bhp located at a major source of HAPs.
- EU-62: B257 750 kW caterpillar C27-T2-subject to RCSA §22a-174-3b; §22a-174-22e; 40 CFR 63 Subpart ZZZZ requirements for new compression ignition engines located at an area source of HAPs and NSPS for compression ignition internal combustion engines under 40 CFR Part 60, Subpart IIII.
- EU-35: B220 EG Cummins/Onan GTA/GS – subject to RCSA §22a-174-3b; RCSA §22a-174-22e; and 40 CFR 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated greater than 500 bhp located at a major source of HAPs.

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.

| TABLE II.A: EMISSIONS UNITS DESCRIPTION | | | | | |
|---|--|--|-----------------------|---|--|
| Emissions Unit/ Grouped Emissions Unit | Emissions Unit Description | Maximum Rated Capacity and Fuel Type | Year Installed | Control Unit Description | Permit, Order, Registration, or Regulation Number |
| GEU-6 | EU-1: CE Boiler 1 | 153.2 MMBtu/hr Natural Gas & ULSD Fuel Oil | 1948 | Low NOx burner | R 070-007, TA&O No. 8372 |
| | EU-2: CE Boiler 2 | 153.2 MMBtu/hr Natural Gas & ULSD Fuel Oil | 1948 | Low NOx burner | R 070-008, TA&O No. 8372 |
| | EU-3: CE Boiler 3 | 153.2 MMBtu/hr Natural Gas & ULSD Fuel Oil | 1952 | Low NOx burner | R 070-009, TA&O No. 8372 |
| EU-28 | Hurst 400 Scotch Boiler | 23.8 MMBtu/hr Natural Gas | 1995 | Low NOx burner | 40 CFR 60 Subpart Dc |
| EU-40 | Solar Mars 100S Turbine 10.5MW Combined Cycle Cogeneration with Heat Recovery Steam Generator | 10.5 MW Natural Gas & ULSD Fuel Oil | 2008 | SCR Oxidation catalyst Low NOx Duct Burner | P 070-0268 |
| GEU-1 | EU-7: B101 EG 12 Caterpillar D50P1 | 0.662 MMBtu/hr ULSD Fuel Oil | 2000 | None | 40 CFR 63 Subpart ZZZZ |
| | EU-8: B90 EG 1 Generac 96A03728S | 0.35 MMBtu/hr ULSD Fuel Oil | 1994 | None | 40 CFR 63 Subpart ZZZZ |
| | EU-20: B296 EG Onan 60 DCGB | 0.65 MMBtu/hr ULSD Fuel Oil | 1996 | None | 40 CFR 63 Subpart ZZZZ |
| | EU-24: B274 Caterpillar SR4 | 2.49 MMBtu/hr ULSD Fuel Oil | 1985 | None | 40 CFR 63 Subpart ZZZZ |
| | EU-48: B58 PGM Emergency Fire Pump | 0.78 MMBtu/hr ULSD Fuel Oil | 1970 | None | 40 CFR 63 Subpart ZZZZ |

Section II: Emissions Units Information

| TABLE II.A: EMISSIONS UNITS DESCRIPTION | | | | | |
|---|--------------------------------------|--------------------------------------|----------------|--------------------------|---|
| Emissions Unit/ Grouped Emissions Unit | Emissions Unit Description | Maximum Rated Capacity and Fuel Type | Year Installed | Control Unit Description | Permit, Order, Registration, or Regulation Number |
| | EU-49: B60 Fire Department Generator | 0.15 MMBtu/hr ULSD Fuel Oil | 1995 | None | 40 CFR 63 Subpart ZZZZ |
| GEU-2 | EU-21: B156A-1 EG Kohler 600 ROZD | 6.57 MMBtu/hr ULSD Fuel Oil | 1995 | None | RCSA §22a-174-3b(e), 40 CFR 63 Subpart ZZZZ |
| | EU-36: B230 EG Caterpillar 3516B | 16.99 MMBtu/hr ULSD Fuel Oil | 1999 | None | RCSA §22a-174-22e, 40 CFR 63 Subpart ZZZZ |
| GEU-3 | EU-51: B195 Fire Pump Engine | 0.87 MMBtu/hr ULSD Fuel Oil | 2009 | None | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII |
| | EU-53: B156A 100 kW EG | 0.91 MMBtu/hr ULSD Fuel Oil | 2012 | None | 40 CFR 63 Subpart ZZZZ, 40 CFR 60 Subpart IIII |
| EU-35 | B220 EG Cummins/Onan GTA/GS | 6.1 MMBtu/hr Natural Gas | 1999 | None | RCSA §22a-174-3b(e), RCSA §22a-174-22e, 40 CFR 63 Subpart ZZZZ |
| GEU-5 | EU-31: B260 EG Onan/Cummins 80 ENAD | 1.2 MMBtu/hr Natural Gas | 1996 | None | RCSA §22a-174-3b(e), 40 CFR 63 Subpart ZZZZ |
| | EU-32: B295 EG Kohler 135 RZ | 1.8 MMBtu/hr Natural Gas | 1999 | None | RCSA §22a-174-3b(e), 40 CFR 63 Subpart ZZZZ |
| EU-33 | B185 EG Kohler 30RZ | 0.55 MMBtu/hr Propane | 1991 | None | 40 CFR 63 Subpart ZZZZ |

Section II: Emissions Units Information

| TABLE II.A: EMISSIONS UNITS DESCRIPTION | | | | | |
|---|---|--------------------------------------|----------------|--------------------------|---|
| Emissions Unit/ Grouped Emissions Unit | Emissions Unit Description | Maximum Rated Capacity and Fuel Type | Year Installed | Control Unit Description | Permit, Order, Registration, or Regulation Number |
| EU-34 | EQ Basin EG Onan 150 DGFA | 1.55 MMBtu/hr ULSD Fuel Oil | 1999 | None | RCSA §22a-174-3b, 40 CFR 63 Subpart ZZZZ |
| EU-38 | B274S-3 EG Caterpillar 3406C-DITA | 3.9 MMBtu/hr ULSD Fuel Oil | 2004 | None | RCSA §22a-174-3b(e), RCSA §22a-174-22e, 40 CFR 63 Subpart ZZZZ |
| EU-62 | B257 750kW Caterpillar C27-T2 | 7.4 MMBtu/hr ULSD Fuel Oil | 2016 | Tier 2 Certification | RCSA §22a-174-3b(e), RCSA §22a-174-22e, 40 CFR 60 Subpart IIII |
| GEU-8 | EU-54: Building 101 Solvent Cold Cleaner #1 | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| | EU-55: Building 101 Solvent Cold Cleaner #2 | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| | EU-56: Building 101 Solvent Cold Cleaner #3 | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| GEU-9 | EU-57: Building 295 Solvent Cold Cleaner | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| | EU-58: Building 274 Solvent Cold Cleaner | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| | EU-59: Building 295 Solvent Cold Cleaner | 30 gallons | 2008 | None | RCSA §22a-174-20(l) |
| EU-63 | Fuel Cell System | 5.6 MW | 2016 | None | None |

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

| Emissions Units Associated with the Scenario | Description of Scenario |
|---|--|
| GEU-6, EU-28, EU-40 | The standard operation of the boilers and the cogeneration systems is to provide steam for building heat and electricity. Boilers EU-1, EU-2, and EU-3 included in GEU-6 and the Cogen system EU-40 fire natural gas or ULSD while Boiler EU-28 fires only natural gas. |
| GEU-8 and GEU-9 | The standard operation of the cold cleaners is to clean parts for maintenance purposes using only non-halogenated solvents. |
| GEU-1, GEU-2, GEU-3, GEU-5, EU-33, EU-34, EU-35, EU-38, EU-62 | The standard operation of the emergency engines is to provide emergency power for operations in the facility. The units included under GEU-1, GEU-2, and GEU-3 as well as EU-34, EU-38, EU-62 fire fuel oil (ULSD) while EU-35 and the units included under GEU-5 fire only natural gas and EU-33 fires propane. |
| EU-63 | The standard operation of the fuel cell system is to provide a nominal 5.6 MW of baseload power to the facility. |

Section III: Applicable Requirements and Compliance Demonstration

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

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

1. Sulfur Content

a. Limitation or Restriction

The Permittee, except as provided in RCSA §22a-174-19b(e), shall not use or burn fuel which contains sulfur in excess of a maximum of 15 ppm by weight (dry basis).

[R-070-007, R-070-008, and R-070-009 modified by DEEP letter addressed to Pfizer on November 1, 2012]

b. Monitoring Requirements

Record keeping specified in Section III.A.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.

[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of all liquid fuels burned in each unit in GEU-6. Records for a fuel certification or contract shall include the following information:

[RCSA §22a-174-19b(g)(3)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

(C) The quantity of fuel purchased;

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

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

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. Particulate Matter

a. Limitation or Restriction

- i. The Permittee shall emit no more than 0.12 pounds of particulate matter per MMBTU of heat input when distillate oil is burned and 0.10 pounds of particulate matter per MMBTU of heat input when natural gas is burned in each unit in GEU-6. [RCSA §22a-174-18(e)(2)(B) and (C)]

- ii. The Permittee shall not allow the opacity of each GEU-6 unit to exceed twenty percent (20%) opacity during any six-minute block average or forty percent (40%) opacity during any one-minute block average. [RCSA §22a-174-18(b)(1)]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for each unit in GEU-6 using emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition. Notwithstanding this, the commissioner may require emission testing to demonstrate compliance with PM limits in Section III.A.2.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permit shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.2.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)]

3. NO_x – RCSA §22a-174-22e (Phase 1 & Phase 2 Requirements)

Note: Pursuant to RCSA §22a-174-22e(a)(1)(B), the emission units in GEU-6 are not considered “affected units” because the maximum heat input for each boiler is less than 250 MMBtu/hr.

a. Limitation or Restriction

- i. The Permittee shall not cause or allow emissions based on a daily block average for an emission unit in GEU-6 with a NO_x CEM system to exceed the following NO_x emission limitations:
[RCSA §§22a-174-22e(d)(3)(A) and (C)]

(A) Phase 1 (Beginning June 1, 2018 and ending May 31, 2023)

(1) Natural Gas: 0.20 lb/MMBtu

(2) Fuel Oil: 0.20 lb/MMBtu

(B) Phase 2 (Beginning June 1, 2023 and continuing thereafter)

(1) Natural Gas: 0.10 lb/MMBtu

(2) Fuel Oil: 0.15 lb/MMBtu

- ii. The Permittee of an emission unit may cause or allow an emission unit to exceed the applicable emissions limitations specified in Section III.A.3.a.i of this Title V permit, provided the Permittee undertakes one of the following actions: [RCSA §22a-174-22e(d)(1)]

(A) Implements an alternative compliance mechanism in accordance with RCSA §22a-174-22e(g);

Section III: Applicable Requirements and Compliance Demonstration

or

(B) Operates under a case-by-case RACT determination in accordance with RCSA §22a-174-22e(h);
or

(C) Ceases operation in accordance with RCSA §22a-174-22e(f).

iii. The Permittee may comply with the applicable emission limits of RCSA §22a-174-22e for the boilers in GEU-6 through emission reduction trading until May 31, 2023.
[Trading Agreement and Order 8372]

b. Monitoring and Testing Requirements

i. The Permittee shall calibrate, maintain, operate and certify the CEM system to demonstrate Compliance with RCSA §22a-174-22e. [RCSA §22a-174-22e(m)(1)]

ii. The permittee shall collect assured CEM data for all emission unit operating conditions. Data collection shall include periods of startup or shutdown, monitoring system malfunction, Out-of-control periods, while conducting maintenance or repairs, and periods of required monitoring system quality assurance or quality control activities, such as calibration checks and required zero and span adjustments. [RCSA §22a-174-22e(m)(2)]

iii. Emissions data used to determine compliance with applicable emissions limitations in Section III.A.3.a of this Title V permit shall not include data collected during the following periods: [RCSA §22a-174-22e(m)(2)]

(A) When the monitoring system is out-of-control as specified in the facility-specific monitoring plan.

(B) While conducting required monitoring system quality assurance or quality control activities, including calibration checks and required zero and span adjustments.

(C) While conducting maintenance or repairs of the monitoring system to prevent or correct a Malfunction; or

(D) When the emission unit is not operating.

iv. The owner or operator of an emission unit that is subject to 40 CFR 60 or 40 CFR 63 and required to conduct a periodic tune-up by the applicable requirements of 40 CFR 60 or 40 CFR 63 may conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR 60 or CFR 63. If the period between tune-ups in the applicable requirements of 40 CFR or 40 CFR 63 is greater than 60 months, a tune-up shall be conducted at least every 60 months.
[RCSA §22a-174-22e(i)(2)]

c. Record Keeping Requirements

i. The Permittee shall keep the following records for each unit in GEU-6:
[RCSA §22a-174-22e(j)(2)]

(A) The date and work performed for repairs, replacement of parts and other maintenance;
[RCSA §22a-174-22e(j)(2)(B)]

Section III: Applicable Requirements and Compliance Demonstration

- (B) Records of the dates and times of all emission testing required by this section, the persons performing the measurements, the testing method used, the operating conditions at the time of testing, and the results of such testing; [RCSA §22a-174-22e(j)(2)(C)]
- (C) For an emission unit that has or is required to have a CEM system for NO_x:
[RCSA §22a-174-22e(j)(2)(D)]
 - (1) Records of all performance evaluations, calibration checks and adjustments on such monitor,
 - (2) A record of maintenance performed,
 - (3) All data necessary to complete the quarterly reports required under subsection (k)(3) of this section, and
 - (4) Charts, electronically stored data, and printed records produced by such CEM system as needed to demonstrate compliance with the requirements of RCSA §22a-174-22e(j).
- (D) For each tune-up, for emission unit, conducted pursuant to Section III.A.3.b.iv of this Title V Permit.: [RCSA §22a-174-22e(j)(2)(E)]
 - (1) 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 the work performed, and
 - (2) The procedures used to inspect and perform adjustments;
- (E) Copies of all documents submitted to the commissioner pursuant RCSA §22a-174-22e; and [RCSA §22a-174-22e(j)(2)(F)]
- (F) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §§22a-174-22e(j)(2)(G)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22e for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State.
[RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

- i. The owner or operator of any emission unit that has or is required to have a CEM system for NO_x shall submit to the commissioner, on forms provided by the commissioner, written quarterly reports of excess emissions and CEM system malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30 and October 30 of each year and shall include: [RCSA §22a-174-22e(k)(3)]
 - (A) All daily block average data, in a format acceptable to the commissioner, for the three calendar month period ending the month before the due date of the report;
 - (B) The date and time of commencement and completion of each period of excess emissions;
 - (C) The magnitude and suspected cause of the excess emissions;
 - (D) Actions taken to correct the excess emissions;

Section III: Applicable Requirements and Compliance Demonstration

- (E) The date and time when each malfunction of the CEM system commenced and ended;
 - (F) Actions taken to correct each malfunction; and
 - (G) If no excess emissions or CEM system malfunctions occur during a quarter, the owner or operator shall indicate that no excess emissions or malfunctions occurred during the quarter.
- ii. Upon written notice, the commissioner may require any owner or operator subject to this section to provide all hourly CEM data, in a format acceptable to the commissioner, for the three calendar month period identified in such written notice. [RCSA §22a-174-22e(k)(4)]

4. Trading Agreement and Order No. 8372

a. Limitation or Restriction

- i. Expiration of Trading Agreement and Order No. 8372: The Permittee may only use emissions trading, subject to the provisions of Trading Agreement and Order No. 8372, until the date of expiration of Trading Agreement and Order No. 8372. The date expiration of Trading Agreement and Order No. 8372 shall be the earlier of: [Trading Agreement and order No. 8372 Paragraph B.1]
 - (A) May 31, 2023
 - (B) The date upon which the Permittee demonstrates to the commissioner's satisfaction that actual NOx emissions from the emission unit, at all times, do not exceed the corresponding AEL(s);
 - (C) The date specified in any written notice from the Commissioner stating that the Permittee is no longer allowed to use emissions trading due to the Permittee's violation of any provision of Trading Agreement and Order; or
 - (D) The date specified in any written notice from the Commissioner, notifying the Permittee that the Commissioner has determined the use of emissions trading as a compliance option has been further restricted, modified or nullified by:
 - (1) The promulgation of an Act, Statute, or Regulations; or
 - (2) The issuance of a judgement or court order.
- ii. The Permittee shall obtain and use sufficient DERs in such a manner to comply with Paragraphs B.6 and B.9 of Trading Agreement and Order No. 8372. All DERs used during the Ozone Season for the emissions units in GEU-6 as described in Table 1 of Trading Agreement and order No. 8372, shall have been generated during an Ozone Season.
[Trading Agreement and Order No. 8372 Paragraph B.2]
- iii. Vintage Restriction. For the purposes of compliance with Section 22a-174-22e of the Regulations and the provisions of Trading Agreement and Order 8372, DERs shall only remain valid for five (5) calendar years from the year of the generation of such DERs. DERs older than five (5) calendar years from their creation are not valid for use for compliance with Section 22a-174-22e of the Regulations and provisions of Trading Agreement and order 8372.
[Trading Agreement and Order No. 8372 Paragraph B.3]

Section III: Applicable Requirements and Compliance Demonstration

- iv. Ozone Season Fuel use Restriction: Notwithstanding the provisions of Paragraph B.2 of Trading Agreement and Order 8372, when operating the emission units in GEU-6 the Permittee shall operate those units while firing or co-firing the lowest NO_x emitting fuel type or combination of fuel types that the units in GEU-6 are authorized to burn in accordance with Departmental permit, registration, or applicable regulation. [Trading Agreement and Order No. 8372 Paragraph B.4]
- v. Notwithstanding Paragraph B.4 of Trading Agreement and Order 8372, during the Ozone Season, the Respondent may operate the emission units in GEU-6 on fuels that result in higher emissions of NO_x, if either: [Trading Agreement and Order 8372 No. Paragraph B.5]
- (A) The availability of fuel oil that complies with Paragraph B.4 of Trading Agreement and Order 8372 is inadequate to meet the needs of residential, commercial and industrial users in this state and that such inadequate supply constitutes an emergency; or
- (B) The supply of gaseous fuels to the emission units in GEU-6 is interrupted due to inadequate supply or in accordance with an interruptible supply agreement between the Permittee and the gaseous fuel supplier.
- vi. DERC Use. On the first day of each calendar month, the Permittee shall possess a quantity of DERCs that equals or exceeds the quantity of Actual DERCs Required in that month. Compliance with Paragraph B.6 of Trading Agreement and Order 8372 shall be determined as follows: [Trading Agreement and Order No. 8372 Paragraph B.6]
- (A) Before the first day of each month, Respondent shall estimate DERCs required for such calendar month for each emission unit in GEU-6 as follows:
- (1) Estimated DERCs Required = $\{(\text{Estimated fuel use in MMBtu} \times ((\text{estimated 24-hr average emission rate lb/MMBtu}) - (0.95 \times \text{AEL}))) \div 2000 \text{ lbs/ton}$
- Where:
- AEL = Allowable Emission limit, as defined in Paragraph A.4 of Trading Agreement and Order 8372.
 - Discount (0.95) = 5% design margin applied to the AEL.
- (B) No later than the twentieth day of each month, The Permittee shall calculate actual DERCs used in the preceding calendar month for each emission unit in GEU-6 as follows:
- (1) Actual DERCs Required = $\sum \{(\text{Daily fuel use MMBtu}) \times ((\text{actual 24-hr average emission rate lb/MMBtu}) - (0.95 \times \text{AEL}))\} \div 2000 \text{ lbs/ton}$
For all days in the month where actual 24-hr average emissions rate > AEL.
- vii. DERC Generation. Until the expiration of Trading Agreement and Order 8372, no later than the twentieth day of each month, The permittee shall calculate actual DERCs generated in the preceding calendar month for each emission unit in GEU-6 as follows: [Trading Agreement and Order No. 8372 Paragraph B.7]
- (A) Actual DERCs Generated = $\sum \{(\text{Daily fuel use MMBtu}) \times ((\text{AEL}) - \text{actual 24-hr average emission rate lb/MMBtu})\} \div 2000 \text{ lbs/ton}$
For all days in the month where actual 24-hr average emissions rate < AEL

Section III: Applicable Requirements and Compliance Demonstration

Where: Daily fuel use and actual 24 average emission rate shall not include missing data calculated in accordance with any missing data substitution procedures of 40 CFR Part 75.

- viii. The Permittee shall retire ten (10) percent of all DERCs (tons) generated by the emission units in GEU-6, prior to use, and permanently remove them from all calculations of available DERCs on a monthly basis to assure a benefit to the environment.
[Trading Agreement and Order No. 8372 Paragraph B.8]
- ix. On or before January 31 of each calendar year, the Permittee shall deduct a quantity of DERCs from the current balance of DERCs possessed by the Permittee such that the total is equal to the sum of Actual DERCs Required pursuant to Paragraph B.6 of Trading Agreement and Order No. 8372 for the preceding calendar year, rounded up to the nearest whole ton.
[Trading Agreement and Order No. 8372 Paragraph B.9]
- x. Maintenance and Tune-up: [Trading Agreement and Order No. 8372 Paragraph B.10.a]
 - (A) Not more than one (1) year from the date of issuance Trading Agreement and Order No. 8372, the Permittee shall perform maintenance and inspection of the emission units in GEU-6 in accordance with Section 22a-174-22e(1). Such maintenance and inspection shall include, but not be limited to, the:
 - (1) Inspect the combustion system, and clean or replace any components of the combustion system as necessary, in accordance with manufacturer's specification or current good engineering practice;
 - (2) Inspect the system controlling the air-to-fuel ratio, and ensure that it is calibrated and functioning in accordance with the manufacturer's specifications or current good engineering practice;
 - (3) Measure the operating parameters of the emission unit used to determine that the emission Is operating in accordance with manufacturer's specifications or current good engineering practice prior to and after any adjustments are made during maintenance, tune-up, or inspection activity.

b. Monitoring and Testing Requirements

The Permittee shall record the actual 24-hour average NOx emissions rate from each emission unit in GEU-6 using approved CEMS [Trading Agreement and Order No. 8372 Paragraph B.11.a]

c. Record Keeping Requirements

- i. By the close of each calendar day, the Permittee shall record the actual 24-hour average NOx emission rate from each unit in GEU-6 equipped with an approved CEMS and the actual fuel type and actual quantity of each type of fuel in units of volume per day or MMBtu per day for each fuel used on the preceding day. [Trading Agreement and Order No. 8372, Paragraph B.11.a]
- ii. On or before the first day of each calendar month, the Permittee shall record the number of DERCs and corresponding serial numbers and vintages for all DERCs in its possession on the first calendar day of that calendar month. [Trading Agreement and Order No. 8372, Paragraph B.11.b]

Section III: Applicable Requirements and Compliance Demonstration

- iii. On or before the first day of each calendar month, the Permittee shall record the number of DERCS and corresponding serial numbers, vintages, purchase/sales dates, and seller/buyer for all DERCS purchased or sold during the preceding calendar month.
[Trading Agreement and Order No. 8372, Paragraph B.11.c]
- iv. On or before the first day of each calendar month, the Permittee shall record the Estimated DERCS Required for that calendar month determined in accordance with Paragraph B.6 of Trading Agreement and Order 8372. [Trading Agreement and Order No. 8372, Paragraph B.11.d]
- v. On or before the twentieth calendar day of each calendar month, the Permittee shall records the Actual DERCS Required for the preceding calendar month determined in accordance with Paragraph B.6 of Trading Agreement and Order 8372.
[Trading Agreement and Order No. 8372, Paragraph B.11.e]
- vi. On or before January 31 of each calendar year, the Permittee shall record the quantity of DERCS deducted in accordance with Paragraph B.9 of Trading Agreement and Order 8372. Such records shall include the serial number and vintage of each DERC deducted from the Permittee's current balance pursuant to Paragraph B.9 of Trading Agreement and Order 8372.
[Trading Agreement and Order No. 8372, Paragraph B.11.f]
- vii. For each month of the Ozone season, the Permittee shall maintain records attesting to the fact that any DERCS deducted from its balance in accordance with Paragraph B.9 of Trading Agreement and Order 8372 were created during an Ozone season. Generator certification of this fact shall be sufficient. [Trading Agreement and Order No. 8372, Paragraph B.11.g]
- viii. On each day during the ozone season that the Permittee operates in accordance with Paragraph B.5 of Trading Agreement and Order 8372, the Permittee shall make and keep records of each unit in GEU-6 operation in accordance with Paragraph B.5 of Trading Agreement and Order 8372, including copies of any written correspondence from the Permittee's fuel supplier detailing the duration and circumstances of the inadequate fuel oil supply or interruption of gaseous fuel supply to the emission units. [Trading Agreement and Order No. 8372, Paragraph B.11.h]
- ix. The Permittee shall make and keep records including, but not limited to, the following:
[Trading Agreement and order No. 8372, Paragraph B.10.b]
 - (A) Demonstration that any maintenance, tune-up, and/or inspection activity performed on the emission units in GEU-6 in accordance with Paragraph B.10 of Trading Agreement and Order No. 10 has been performed in accordance with the manufacturer's specifications, current good engineering practices, or facility-specific maintenance directive;
 - (B) The date and a description of any maintenance, tune-up, and/or inspection activity performed on the emission units in GEU-6 in accordance with paragraph B,10 of Trading Agreement and Order No. 8372;
 - (C) The name, title, and affiliation of the person conducting any maintenance, tune-up, and/or inspection activity performed on the emission units in GEU-6 in accordance with Paragraph B.10 of Trading Agreement and Order No. 8372;
 - (D) The operating parameters of the emission unit used to determine whether or not the emission unit is operating in accordance with manufacturer's specification, current good engineering practice, or facility-specific maintenance directive, prior to and after any adjustments are made during maintenance, tune-up or inspection activity performed in accordance with Paragraph

Section III: Applicable Requirements and Compliance Demonstration

B.10 of Trading Agreement and order No. 8372.

d. Reporting Requirements

No later than March 1 of every year after issuance of Trading Agreement and Order 8372, the Permittee shall submit to the Commissioner a written report containing copies of all of the records required pursuant to Paragraph B.11 of Trading Agreement and Order 8372. The Commissioner may prescribe the forms to be used for the submission of these reports. The Permittee shall submit these reports on such forms, if prescribed by the Commissioner. [Trading Agreement and Order 8372, Paragraph B.13]

5. 40 CFR 63 Part JJJJJJ

a. Limitation or Restriction

- i. The Permittee shall at all times operate and maintain the emission units in GEU-6, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR Part 63.11205(a)]
- ii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart JJJJJJ. [40 CFR Part 63.11235]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct a tune-up of each boiler biennially as specified in 40 CFR Part 63.11223. [40 CFR Part 63 Subpart JJJJJJ Table 2 (No. 4)]

c. Record Keeping Requirements

- i. The Permittee shall maintain onsite and submit, if requested by the Administrator, a boiler tune-up report containing the information specified in 40 CFR Part 63.11223(b)(6). [40 CFR Part 63.11223(b)(6)]
- ii. The Permittee shall maintain all applicable records specified in 40 CFR Part 63.11225(c). These records must be in a form suitable and readily available for expeditious review, and in accordance with 40 CFR Part 63.10(b)(1). [40 CFR Part 63.11225(c)]
- iii. The Permittee must keep records in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The permittee may keep the records off site for the remaining 3 years. [40 CFR Part 63.11225(d)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

The Permittee must prepare, and submit to the delegate authority upon request, a biennial compliance report containing the information specified in 40 CFR §§63.11225(b)(1) and (2). The Permittee must submit the report by March 15 if the Permittee had any instance described by 40 CFR §63.11225(b)(3). [40 CFR Part 63.11225(b)]

B. EMISSIONS UNIT 28 (EU-28) - Hurst Boiler

1. 40 CFR Subpart Dc Requirements

a. Limitations and Restrictions

EU-28's compliance with the limits or fuel sulfur limits under 40 CFR §60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR §60.48c(f). [40 CFR §60.42c(h)(4)]

b. Monitoring and Testing Requirements

- i. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f) (4) of 40 CFR §60.48c. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reported period. [40 CFR §60.48c(e)(11)]
- ii. The fuel supplier certification shall include the following information: [40 CFR §60.48c(f)(4)]
 - (A) The name of the supplier of the fuel;
 - (B) The potential sulfur emissions rate or maximum potential sulfur emissions rate of the fuel in ng/j heat input; and
 - (C) The method used to determine the potential sulfur emissions rate of the fuel.

c. Record Keeping Requirements

The owner or operator of each affected facility that combusts only natural gas, wood, fuels using certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR §60.48c(g)(2)]

d. Reporting Requirements

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

2. NO_x - RCSA §22a-174-22e (Phase 1 & Phase 2 Requirements)

Note: Pursuant to RCSA §22a-174-22e(a)(1)(B), EU-28 is not considered an "affected unit" because the maximum heat input for EU-28 is less than 250 MMBtu/hr. In addition, since the maximum heat input for EU-28 is less than 25 MMBtu/hr the emission limits are the same for Phase 1 and Phase 2.

Section III: Applicable Requirements and Compliance Demonstration

a. Limitations and Restrictions

The Permittee shall not cause or allow emissions of NO_x as determined by NO_x emission testing pursuant to RCSA §22a-174-22e(1) for an emission unit without a NO_x CEM system to exceed 0.20 lb/MMBTU when firing natural gas. [RCSA §22a-174-22e(d)(3)(A) and (C)]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct an initial emission test on EU-28 on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant to former section 22a-174-22(k) of the RCSA. [RCSA §§22a-174-22e(1)(2) and (4)]
- ii. The Permittee shall conduct an emission test on EU-28 during Phase 2 on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, the Permittee shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [RCSA §§22a-174-22e(1)(2) and (5)]
- iii. Each emission test on EU-28 shall be conducted in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of this section shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows:
[RCSA §22a-174-22e(1)(6)]
 - (A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR 60; or
 - (B) If the commissioner determines that three one-hour test are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of Section III.B.2.a of this Title V permit shall be determined based on the average of the test runs shorter than a one-hour period. For the first time that EU-28 is tested with a shorter than a one-hour test run as provided in accordance with RCSA §22a-174-22e(1)(6)(B) approval of the commissioner for a shorter than one-hour test run shall be received prior to testing by submission of a request to the commissioner at least 120 days prior to the scheduled testing. The request shall specify a test run duration and describe why a shorter time period is necessary.
- v. If the Permittee is unable to conduct scheduled emission testing required by RCSA §22a-174-22e(1) due to force majeure, the Permittee shall conduct the required emission testing as soon as practicable after the force majeure event occurs. [RCSA §22a-174-22e(1)(8)]
- iv. The owner or operator of an emission unit that is subject to 40 CFR 60 or 40 CFR 63 and required to conduct a periodic tune-up by the applicable requirements of 40 CFR 60 or 40 CFR 63 may conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR 60 or 40 CFR 63. If the period between tune-ups in the applicable requirements of 40 CFR 60 or 40 CFR 63 is greater than 60 months, a tune-up shall be conducted at least once every 60 months. [RCSA §22a-174-22e(i)(2)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep the following records:
 - (A) The date, and work performed for repairs, replacement of parts and other maintenance;
[RCSA §22a-174-22e(j)(2)(B)]

Section III: Applicable Requirements and Compliance Demonstration

- (B) Records of the dates and times of all emission testing required by RCSA §22a-174-22e, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; [RCSA §22a-174-22e(j)(2)(C)]
- (C) For each tune-up of EU-28, conducted pursuant to RCSA §22a-174-22e(i); [RCSA §22a-174-22e(j)(2)(E)]
 - (1) 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
 - (2) the procedures used to inspect and perform adjustments;
- (D) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and [RCSA §22a-174-22e(j)(2)(F)]
- (E) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22e for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

- i. Not more than 60 days after the completion of emission tests conducted under the requirements of RCSA §22a-174-22e(l) for EU-28 the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]
- ii. The permittee shall submit additional information in writing, at the commissioner's request, within 30 days 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 40 (EU-40) - Solar Mars 100S Turbine and COEN Duct Burner

1. Fuel Usage

a. Limitations and Restrictions

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

b. Monitoring and Testing Requirements

The Permittee shall use individual non-resettable totalizing fuel metering devices to continuously monitor the natural gas and ULSD fuel oil feed to the turbine and the natural gas feed to the duct burner.

Section III: Applicable Requirements and Compliance Demonstration

[P 070-0268]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption of the Solar Mars 100S Turbine and COEN duct burner. The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. Turbine and duct burner fuel consumption records shall be kept independently.
[P 070-0268]

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. Sulfur Content

a. Limitations and Restrictions

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

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the following: [P 070-0268]

(A) Date of Delivery;

(B) Name of the fuel supplier;

(C) Type of fuel delivered,

(D) The percentage or ppm of sulfur in such fuel, by weight, dry basis; and

(E) The method used to determine the sulfur content of such fuel.

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

3. Allowable Emission Limits

a. Limitations and Restrictions

- i. The Permittee shall not exceed the emission limits stated herein at any time for the Solar Mars 100S Turbine and COEN duct burner.
[P 070-0268]
- ii. Short Term Emission Limits: These short term emission limits do not apply during periods of start-up and shutdown, equipment tuning events or recommissioning activities, unless otherwise noted.
[P 070-0268]

(A) Turbine Operating on Natural Gas (Criteria Pollutants)

- (1) $PM_{10}/PM_{2.5}$
 - (a) 5.52 lb/hr
 - (b) 0.27 lb/MMBtu, this limit shall apply at all times, including periods of start-up and shutdown.
- (2) SO_2 : 0.45 lb/hr
- (3) NO_x : 1.60 lb/hr
- (4) VOC: 4.25 lb/hr
- (5) CO: 1.48 lb/hr

(B) Turbine Operating on Oil (Criteria Pollutants)

- (1) $PM_{10}/PM_{2.5}$
 - (a) 7.74 lb/hr
 - (b) 0.038 lb/MMBTU, this limit shall apply at all times, including periods of start-up and shutdown.
- (2) SO_2 : 0.21 lb/hr
- (3) NO_x : 4.69 lb/hr
- (4) VOC: 4.28 lb/hr
- (5) CO: 1.48 lb/hr
- (6) Pb: 1.78E-3 lb/hr

(C) Duct Burner Operating on Natural Gas (Criteria Pollutants)

- (1) $PM_{10}/PM_{2.5}$: 0.71 lb/hr
- (2) SO_2 : 0.06 lb/hr
- (3) NO_x : 1.39 lb/hr
- (4) VOC: 0.52 lb/hr
- (5) CO: 0.79 lb/hr

Section III: Applicable Requirements and Compliance Demonstration

Note: The Duct Burner cannot be operated independently from the turbine. When the duct burner is operating the duct burner's allowable hourly limits shall be added to the turbine's allowable hourly limits as stated in Sections III.C.3.a.ii.(A) and (B) of this Title V permit for oil or natural gas depending on which operational mode applies.

(D) For All Operating Scenarios

- (1) NO_x (Natural Gas): 3.3 ppmvd @15% O₂
- (2) NO_x (ULSD Fuel Oil): 9.0 ppmvd @15% O₂
- (3) CO: 6.0 ppmvd @15% O₂
- (4) Ammonia: 5.0 ppmvd @15% O₂

iii. Annual Emission Limits (Tons per 12 consecutive months) for all operating scenarios combined. [P 070-0268]

- (A) PM₁₀/PM_{2.5}: 34.1 tpy
- (B) SO₂: 2.3 tpy
- (C) NO_x: 24.9 tpy
- (D) VOC: 20.9 tpy
- (E) CO: 10.0 tpy
- (F) Pb: 7.1E-03 tpy

iv. Tuning Events Emission Limits [P 070-0268]

- (A) Total hours of operation for the purpose of equipment tuning shall not exceed 25 hours over any consecutive 12 month period.
- (B) The duration of each equipment tuning shall not exceed five hours.
- (C) The emissions for each tuning event shall not exceed:
 - (1) NO_x: 82.8 pounds
 - (2) CO: 503.5 pounds
 - (3) NH₃: 13.8 pounds
- (D) The Permittee shall only conduct equipment tuning when emissions can be measured as part of a concurrent stack testing program or otherwise monitored using a certified CEM system.
- (E) Emissions during tuning events shall be counted towards the annual emissions stated in Section III.C.3.a.iii of this Title V permit.

v. Recommissioning Activities Emission Limits [P 070-0268]

- (A) Operation for the purposes of recommissioning shall be allowed following maintenance or after performing the swapping out of the combustion turbine and or its components.
- (B) Total hours of operation for purposes of recommissioning shall not exceed 48 hours over any consecutive 12 month period.
- (C) The emissions during recommissioning activities shall not exceed:

Section III: Applicable Requirements and Compliance Demonstration

(1) NO_x: 16.6 lb/hr

(2) CO: 100.7 lb/hr

(3) NH₃: 2.8 lb/hr

(D) Emissions during recommissioning activities shall be counted towards the annual emissions limits stated in Section III.C.3.a.iii of this Title V permit.

b. Monitoring and Testing Requirements

i. The Permittee shall demonstrate compliance with the emission limits in Section III.C.3.a of this Title V permit for the Solar Mars 100S Turbine and COEN duct burner using emission factors from the following sources: [P 070-0268]

(A) PM-10, PM-2.5, NO_x, CO, VOC, Ammonia: Stack Test Results.

(B) SO₂, Pb, HAPs: Compilation of Air Pollutant Emission Factors, AP-42, fifth edition, Section 3.1, April 2000 (turbine) and Section 1.4, July 1998 (duct burner).

(C) The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the emission limits in Section III.C.3.a of this Title V permit, as allowed by state or federal statute, law or regulation.

ii. The Permittee shall continuously monitor and continuously record the SCR aqueous ammonia injection rate (lb/hr), operating temperature (°F) and pressure drop (inches of water) across the catalyst bed. The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits in Section III.C.3.a of this Title V permit. [P 070-0268]

iii. The Permittee shall continuously monitor and continuously record the oxidation catalyst inlet temperature (°F). The Permittee shall maintain this parameter within the ranges recommended by the manufacturer to achieve compliance with the emission limits in Section III.C.3.a of this Title V permit. [P 070-0268]

iv. The Permittee shall inspect the SCR and oxidation catalysts once per year, at a minimum, or more frequently if recommended by the manufacturer. [P 070-0268]

v. The Permittee shall conduct stack testing for NO_x, CO and ammonia every five years from the date of the previous test to determine compliance with the allowable emission limits stated in Section III.C.3.a of this Title V permit. Tests shall be conducted for the following operating modes: [P 070-0268]

(A) Turbine only on oil;

(B) Turbine only on natural gas;

(C) Turbine on oil and duct burner on natural gas; and

(D) Turbine on natural gas and duct burner on natural gas.

vi. Stack test results shall be reported as follows: [P 070-0268]

(A) All pollutants in units of lb/hr;

Section III: Applicable Requirements and Compliance Demonstration

(B) NO_x and CO in units of ppmvd at 15% O₂;

(C) Ammonia in units of µg/m³ and ppmvd at 15% O₂.

c. Record Keeping Requirements

i. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, and CO emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 070-0268]

ii. The Permittee shall keep records of each delivery of aqueous ammonia. The record shall include: [P 070-0268]

(A) The date of delivery;

(B) The name of the supplier;

(C) The quantity of aqueous ammonia delivered; and

(D) The percentage of ammonia in solution, by weight.

iii. The Permittee shall keep records of the inspection and maintenance of the SCR and oxidation catalysts. The records shall include: [P 070-0268]

(A) The name of the person;

(B) The date;

(C) The results or actions; and

(D) The date the catalyst is replaced.

iv. The Permittee shall make and keep records of the occurrence and duration of any tuning event or recommissioning activity. The records shall include: [P 070-0268]

(A) Type of event (tuning event or recommissioning activity);

(B) Date of event;

(C) Duration of event (hours and minutes);

(D) Fuel being used during event; and

(E) Total NO_x, CO and NH₃ emissions emitted (lb) during the event.

d. Reporting Requirements

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

4. Startup and Shutdown

a. Limitations and Restrictions

i. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints: [P 070-0268]

Section III: Applicable Requirements and Compliance Demonstration

- (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;
- (D) The duration of startup shall not exceed 60 minutes for a warm start;
- (E) The duration of startup shall not exceed 240 minutes for a cold start;
- (F) A hot start shall be defined as startup when the turbine has been down for less than 8 hours;
- (G) A warm start shall be defined as startup when the turbine has been down for more than 8 hours;
- (H) A cold start shall be defined as startup when the turbine has been down for more than 24 hours;
- (I) The duration of shutdown shall not exceed 30 minutes; and
- (J) Emissions during startup and shutdown periods shall be counted towards the annual emissions limits stated in Section III.C.3.a.iii of this Title V permit.

b. Monitoring and Testing Requirements

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

[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbine/duct burner; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. Such records shall contain the following information:

[P 070-0268; 40 CFR §60.7(b)]

- (A) Type of event (startup, shutdown, or malfunction);
- (B) Equipment affected;
- (C) Date of event;
- (D) Duration of event (minutes);
- (E) Fuel being used during event; and
- (F) Total NO_x and CO emissions emitted (lb) during the event.

d. Reporting Requirements

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

5. NO_x – RCSA §22a-174-22e (Phase 1 & Phase 2 Requirements for EU-40)

Note: Pursuant to RCSA §22a-174-22e(a)(1)(A), EU-40 is not an “affected unit” because its nameplate capacity is less than 15 MW.

a. Limitations and Restrictions

Section III: Applicable Requirements and Compliance Demonstration

- i. Prior to June 1, 2023 the Permittee shall not cause or allow emission of NO_x for EU-40 to exceed the following: [RCSA §§22a-174-22e(d)(5)(A) and (d)(16)]

(A) Phase 1 (Beginning June 1, 2018 and ending May 31, 2023)

- (1) The following emission limitations, as determined by NO_x emission testing pursuant to RCSA §22a-174-22e(l) for an emission unit without a NO_x CEM system apply to the owner or operator of a combined cycle combustion turbine:

(a) Natural Gas: 42 ppmvd @ 15% O₂

(b) ULSD Fuel Oil: 65 ppmvd @ 15% O₂

- ii. On or after June 1, 2023 the Permittee shall not cause or allow emissions of NO_x for EU-40 to exceed the following: [RCSA §§22a-174-22e(d)(5)(A) and (d)(16)]

(A) Phase 2 (Beginning on June 1, 2023 and thereafter)

- (1) The following emission limitations, as determined by NO_x emission testing pursuant to RCSA §22a-174-22e(l) for an emission unit without a NO_x CEM system apply to the owner or operator of a combined cycle combustion turbine:

(a) Natural Gas: 25 ppmvd @ 15% O₂

(b) ULSD Fuel Oil 42 ppmvd @ 15% O₂

(B) Implements an alternative compliance mechanism as provided in RCSA §22a-174-22e(g); or [RCSA §22a-174-22e(d)(1)(A)]

(C) Operates under a case-by-case RACT determination in accordance with RCSA §22a-174-22e(h); or [RCSA §22a-174-22e(d)(1)(B)]

(D) Ceases operation as provided in RCSA §22a-174-22e(f). [RCSA §22a-174-22e(d)(1)(C)]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct an emissions test for NO_x on EU-40 on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant to former section 22a-174-22(k) of the RCSA. [RCSA §22a-174-22e(l)(4)]

- ii. Each emissions test on EU-40 shall be conducted in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of this section shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows: [RCSA §22a-174-22e(l)(6)]

(A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR 60; or

(B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of Section III.C.5.a of this Title V permit shall be determined based on the average of test runs shorter than a one-hour period. For the first time that EU-40 is tested with a shorter than a one-hour test run as provided in accordance with RCSA §22a-174-22e(l)(6)(B) approval of the commissioner for a shorter than one-hour test run shall be received prior to testing by submission of a request to the commissioner at least 120

Section III: Applicable Requirements and Compliance Demonstration

days prior to the scheduled testing. The request shall specify a test run duration and describe why a shorter time period is necessary.

- iii. If the Permittee is unable to conduct scheduled emission testing required by RCSA §22a-174-22e(l) due to force majeure, the Permittee shall conduct the required emission testing as soon as practicable after the force majeure event occurs. [RCSA §22a-174-22e(l)(8)]
- iv. The Permittee shall conduct a tune-up on EU-40 in accordance with the applicable requirements of 40 CFR 60 at least once every 60 months. [RCSA §22a-174-22e(i)(2)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep the following records:
 - (A) The date, and work performed for repairs, replacement of parts and other maintenance; [RCSA §22a-174-22e(j)(2)(B)]
 - (B) Records of the dates and times of all emission testing required by RCSA §22a-174-22e, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; [RCSA §22a-174-22e(j)(2)(C)]
 - (C) For each tune-up of EU-40, conducted pursuant to RCSA §22a-174-22e(i); [RCSA §22a-174-22e(j)(2)(E)]
 - (1) The date of 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
 - (2) The procedure used to inspect and perform adjustments;
 - (D) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and [RCSA §22a-174-22e(j)(2)(F)]
 - (E) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]
- ii. The Permittee shall retain all records and reports produced pursuant to RCSA 22a-174-22e for a period no less than five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

- i. Not more than 60 days after the completion of emission tests conducted under the requirements of RCSA §22a-174-22e(l) for EU-40 the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

Section III: Applicable Requirements and Compliance Demonstration

6. Opacity

a. Limitation or Restriction

- i. EU-40 shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9. [P 070-0268]
- ii. EU-40 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. Monitoring and Testing Requirements

Record keeping specified in Section III.C.6.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.
[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restrictions In Section III.C.6.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)]

7. 40 CFR Part 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines [Federal]

a. Limitation or Restriction

- i. NO_x emission shall not exceed 25 ppm at 15% O₂ from EU-40 when firing natural gas.
[40 CFR §60.4320(a)]
- ii. NO_x emissions shall not exceed 74 ppm at 15% O₂ from EU-40 when firing ULSD fuel oil.
[40 CFR §60.4320(a)]
- iii. NO_x emissions shall not exceed 150 ppm at 15% O₂ from EU-40 when firing natural gas or ULSD fuel oil and operating at less than 75% of peak load. [40 CFR §60.4320(a)]

If the total heat input from EU-40 is greater than or equal to 50 percent natural gas, the Permittee must meet the corresponding limit, for EU-40 when burning natural gas. Similarly, when the total heat input for EU-40 is greater than 50 percent ULSD fuel oil the Permittee must meet the corresponding limit for ULSD for EU-40, for the duration of the time that EU-40 burns that particular fuel. [40 CFR §60.4320(a)]

- iv. The Permittee must not burn in EU-40 any fuel which contains total potential sulfur emissions in excess of 0.60 lb SO₂/MMBtu heat input when firing natural gas or ULSD fuel oil.
[40 CFR §60.4330(a)(2)]

b. Monitoring and Testing Requirements

- i. The Permittee shall operate and maintain EU-40's 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. [40 CFR §60.4333(a)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee must continuously monitor the appropriate parameters to verify the proper operation of the SCR emission controls. [40 CFR §60.4340]
- iii. The Permittee is exempt from the total sulfur content fuel monitoring requirements in 40 CFR §60.4360 as long as the Permittee can demonstrate that the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for each fuel, specifying that the maximum total sulfur content for oil is 0.05 weight percent or less, the total sulfur content for natural gas is 20 grains of sulfur or less per 100 standard cubic feet, and EU-40 has potential sulfur emissions of less than 0.60 lb SO₂/MMBtu heat put. [40 CFR §60.4365(a)]

c. Record Keeping Requirements

- i. The Permittee shall maintain a file of all measurements, including monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on EU-40; and all other information required by 40 CFR §60.7(f) recorded in a permanent form suitable for inspection. [40 CFR §60.7(f)]
- ii. The Permittee shall keep records of the current, valid purchase contract, tariff sheet or transportation contract for each fuel as specified in Section III.C.7.b.iii of this Title V permit in order to demonstrate compliance with Section III.C.7.a.iv of this Title V permit. [40 CFR §60.4365(a)]

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)]

8. Premise-wide HAPS

a. Limitations and Restrictions

Premises-wide HAP emissions shall be less than 10 tons per consecutive 12 months of any single HAP, which has been listed in Section 112(b) of the Federal Clean Air Act, and less than 25 tons per consecutive 12 months of any combination of HAPs. [P 070-0268]

b. Monitoring and Testing Requirements

- i. The permittee shall calculate actual HAP emissions using one or more of the following sources of information: [P 070-0268]
 - (A) The monthly and consecutive 12 month amount of fuels, solvents, coatings or raw materials used;
 - (B) Purchase orders or invoices;
 - (C) AP-42 emission factors, manufacturer's data, material balance; and/or
 - (D) Any other documentation the commissioner reasonably deems necessary to accurately calculate actual HAP emissions.

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep records of the monthly and consecutive 12 month premise-wide HAP 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. The Permittee shall make these records within 30 days of the end of the previous month. [P 070-0268]
- ii. The Permittee shall make and maintain a premise-wide list of all equipment, processes, and materials that have the potential to emit HAPS. [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)]

9. Work Practices and Maintenance Requirements

a. Limitations and Restrictions

- i. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. The Permittee shall operate and maintain this stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR §60.4333(a); P 070-0268]
- ii. The Permittee shall properly operate the control equipment at all times that this turbine is in operation and emitting air pollutants. [P 070-0268]
- iii. In the event a malfunction cannot be corrected within three hours, the Permittee shall immediately institute shutdown of the turbine. [P 070-0268]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.C.9.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records, when turbines are changed for routine maintenance, to include the following: [P 070-0268]
 - (A) The date the turbine was changed;
 - (B) The reason for the change;
 - (C) Documentation that the replacement turbine is the same make and model;
 - (D) Documentation of all associated costs; and
 - (E) Documentation the replacement turbine does not result in an increase in emissions, the emission of any new air pollutants, or increases in electrical output of the turbine.

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

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

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

Note: The emergency engines in GEU-1 are not subject to 22a-174-3a, 3b or 3c by virtue of their size and/or installation date.

1. Hours of Operation

a. Limitations and Restrictions

- i. There is no time limit on the use of the emergency engines in GEU-1 in emergency situations [40 CFR §63.6640(f)(1)]
- ii. The emergency engines in GEU-1 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-1 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engines in GEU-1 beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- iii. The emergency engines in GEU-1 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response as specified in Section III.D.1.a.ii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

b. Monitoring and Testing Requirements

The Permittee shall install non-resettable hour meters for each emergency engine in GEU-1 if one is not already installed. [40 CFR §63.6625(f)]

c. Record Keeping Requirements

The Permittee shall keep records of the hours of operation of each emergency engine in GEU-1 recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

d. Reporting Requirements

Section III: Applicable Requirements and Compliance Demonstration

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. Sulfur Content

a. Limitations and Restrictions

The Permittee shall not combust any fuel in the diesel fired emergency engines in GEU-1 that exceeds the sulfur content of 0.0015% by weight, except during fuel shortage emergencies in accordance with the provisions of RCSA §22a-174-19b(e).
[RCSA §22a-174-19b(d)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a contract with a fuel supplier is sufficient to satisfy the requirements of RCSA §22a-174-19b(g) if the certification or contract identifies the following:
[RCSA §22a-174-19b(g)(3)]

- i. The name of the fuel seller;
- ii. The type of fuel purchased;
- iii. The sulfur content of the fuel purchased; and
- iv. The method used to determine the sulfur content of the fuel purchased.

d. Reporting Requirements

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

3. Work Practices and Maintenance Requirements

a. Limitations and Restrictions

- i. The Permittee shall change the oil and filter for each emergency engine in GEU-1 every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i).
[40 CFR Part 63 Subpart ZZZZ Table 2c(1)(a)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall inspect the air cleaner of each emergency engine in GEU-1 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(b)]
- iii. The Permittee shall inspect all the hoses and belts of each emergency engine in GEU-1 every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ Table 2c(1)(c)]
- iv. The Permittee shall minimize the GEU-1 emergency engines time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If any of the emergency engines in GEU-1 is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.D.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- vi. The Permittee shall at all times operate and maintain the emergency engines in GEU-1, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]
- vii. The Permittee shall also operate and maintain the emergency engines in GEU-1 and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(4)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall keep records of the maintenance conducted on the GEU-1 emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans. [40 CFR §§63.6655(e)]
- iii. 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)]
- iv. 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)]
- v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]
- vi. As specified in 40 CFR §63.10(b)(1), the Permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]
- vii. The Permittee must keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(c)]

d. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.D.3.a.i through III.D.3.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. If the work practices and/or maintenance requirements listed in Sections III.D.3.a.i through iii of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.D.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6640(e)]

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

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not cause or allow the emergency engines in GEU-2 to operate except during periods specified under RCSA §22a-174-22e(a)(13) and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(C)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall not cause or allow the emergency engines in GEU-2 to operate except during the periods specified under RCSA §22a-174e(a)(13) as follows:
[RCSA §§22a-174-3b(a)(6) and 22a-174-22e(a)(13)]
 - (A) Emergencies;
 - (B) Testing;
 - (C) Scheduled maintenance;
 - (D) When the facility owner or operator interrupts power to the facility to perform construction, maintenance or repair of the power distribution system for the facility or portion of the facility; or
 - (E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility.
- iii. The emergency engines in GEU-2 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-2 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engines in GEU-2 beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- iv. The emergency engines in GEU-2 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situation are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response as specified in Section III.E.1.a.iii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

b. Monitoring and Testing Requirements

The Permittee shall install non-resettable hour meters for each emergency engine in GEU-2 if not already installed. [40 CFR §63.6625(f)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the hours of operation of each emergency engine in GEU-2 recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- ii. The Permittee shall make and maintain records of the hours of operation of each emergency engine in GEU-2 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner,

Section III: Applicable Requirements and Compliance Demonstration

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

2. Sulfur Content

a. Limitations and Restrictions

The Permittee shall not cause or allow the diesel fired emergency engines in GEU-2 to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in section 22a-174-42 of the Regulations of Connecticut State Agencies. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines in GEU-2: [RCSA §22a-174-3b(h)]

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

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

(C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

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. Nitrogen Oxides

a. Limitations and Restrictions

- i. The emergency engines in GEU-2 are exempt from the following requirements of RCSA §22a-174-22e: [RCSA §22a-174-22e(c)(5)]

(A) The emissions limitations of subsection (d)(6);

(B) The tune-up requirements of subsection (i);

(C) The testing requirements of subsection (l); and

(D) The monitoring requirements of subsection (m).

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall not operate the emergency engines in GEU-2 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 Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of “moderate” or lower obtained after 3 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 Permittee to refrain from operation of the emergency engines in GEU-2 at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine in GEU-2 from RCSA §22a-174-22e(d)(14) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep the following records for all units in GEU-2:
 - (A) Records required by 40 CFR §63.6655, as applicable;
[RCSA §22a-174-22e(j)(2)(A)]
 - (B) The date and work performed for repairs, replacement of parts and other maintenance;
[RCSA §22a-174-22e(j)(2)(B)]
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and
[RCSA §22a-174-22e(j)(2)(F)]
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State.
[RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

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

1. Hours of Operation

a. Limitations and Restrictions

- i. There is no limit on the use of the emergency engines in GEU-3 in emergency situations. [40 CFR §60.4211(f)(1)]
- ii. The emergency engines in GEU-3 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-3 is limited to 100 hours per year in accordance with 40 CFR §60.4211(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engines in GEU-3 beyond 100 hours per calendar year. [40 CFR §60.4211(f)(2)(i)]
- ii. The emergency engines in GEU-3 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing as specified in Section III.F.1.a.ii of this Title V permit. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §60.4211(f)(3)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

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

2. Sulfur Content

a. Limitations and Restrictions

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

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall not combust any fuel in the diesel fired emergency engines in GEU-1 that exceeds the sulfur content of 0.0015% by weight, except during fuel shortage emergencies in accordance with the provisions of RCSA 22a-174-19b(e). [RCSA §22a-174-19b(d)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a contract with a fuel supplier is sufficient to satisfy the requirements of RCSA §22a-174-19b(g) if the certification or contract identifies the following: [RCSA §22a-174-19b(g)(3)]

(A) The name of the fuel seller;

(B) The type of fuel purchased;

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

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

d. Reporting Requirements

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

3. Work Practices and Operational Requirements

a. Limitations and Restrictions

- i. The emergency engines in GEU-3 meet the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart IIII. [40 CFR §63.6590(c)]
- ii. The Permittee shall operate and maintain the emergency engines in GEU-3 to achieve the emission standards as required in 40 CFR §§60.4204 and 60.4205 over the entire life of each engine. [40 CFR §60.4206]
- iii. The Permittee shall comply with the following, except as permitted under 40 CFR §60.4211(g) and Section III.F.3.a.v of this Title V permit: [40 CFR §60.4211(a)]
 - (A) Operate and maintain the stationary combustion ignition internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (B) Change only those emission-related settings that are permitted by the manufacturer; and
 - (C) Meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply.

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall demonstrate compliance for a 2007 model year and later stationary compression ignition internal combustion engine by purchasing an engine certified to the emission standards as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g) and Section III.F.3.a.v of this Title V permit. [40 CFR §60.4211(c)]
- v. If the Permittee does not install, configure, operate, and maintain an emergency engine in GEU-3 according to the manufacturer's emission-related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, compliance must be demonstrated as specified in 40 CFR §§60.4211(g)(1) through (3). [40 CFR §60.4211(g)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall demonstrate compliance for compression ignition fire pump engines in GEU-3 manufactured prior to the model years in Table 3 of 40 CFR Part 60 Subpart IIII by keeping records of engine manufacturer data indicating compliance with the applicable standards.
[40 CFR §60.4211(b)(3)]
- ii. The permittee shall maintain records sufficient to determine compliance with the limitations or restrictions in Section III.F.3.a of this Title V permit. [RCSA§22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee is not required to submit an Initial Notification under 40 CFR Part 60 Subpart IIII for the emergency engines in GEU-3. [40 CFR §60.4214(b)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

G. Emission Unit (EU-35) – B220 EG Cummins Onan Emergency engine subject to RCSA §22a-174-3b; §22a-174-22e; and 40 CFR Part 63 Subpart ZZZZ requirements for existing spark ignition 4 stroke lean burn engines rated greater than 500 bhp located at a major source of HAPs.

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not allow EU-35 to operate except during periods specified under RCSA §22a-174-22e(a)(13) and unless operation of such engines shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(c)]
- ii. The Permittee shall not cause or allow EU-35 to operate except during the periods specified under RCSA §22a-174e(a)(13) as follows: [RCSA §§22a-174-3b(a)(6) and 22a-174-22e(a)(13)]
 - (A) Emergencies;
 - (B) Testing;
 - (C) Scheduled maintenance;

Section III: Applicable Requirements and Compliance Demonstration

- (D) When the facility owner or operator interrupts power to the facility to perform construction, maintenance or repair of the power distribution system for the facility or portion of the facility; or
 - (E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility.
- iii. The emergency engine EU-35 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for EU-35 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). [40 CFR §63.6640(f)(2)(i)]
 - iv. The emergency engine EU-35 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response as specified in Section III.G.1.a.iii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

b. Monitoring and Testing Requirements

The Permittee shall install a non-resettable hour meter on EU-35 if not already installed.
[40 CFR §63.6625(f)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the hours of operation of EU-35 recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- ii. The Permittee shall make and maintain records of the hours of operation of EU-35 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

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

2. Nitrogen Oxides

a. Limitations and Restrictions

- i. EU-35 is exempt from the following requirements of RCSA §22a-174-22e:
[RCSA §22a-174-22e(c)(5)]
 - (A) The emissions limitations of subsection (d)(6);
 - (B) The tune-up requirements of subsection (i);

Section III: Applicable Requirements and Compliance Demonstration

(C) The testing requirements of subsection (1); and

(D) The monitoring requirements of subsection (m).

- ii. The Permittee shall not operate emergency engine EU-35 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 Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of “moderate” or lower obtained after 3 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 Permittee to refrain from operation of emergency engine EU-35 at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of emergency engine EU-35 from RCSA §22a-174-22e(d)(14) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep the following records for EU-35:
 - (A) Records required by 40 CFR §63.6655, as applicable; [RCSA §22a-174-22e(j)(2)(A)]
 - (B) The date and work performed for repairs, replacement of parts and other maintenance; [RCSA §22a-174-22e(j)(2)(B)]
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and [RCSA §22a-174-22e(j)(2)(F)]
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22e for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

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

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not allow the emergency engines in GEU-5 to operate except during periods specified under RCSA §22a-174-22e(a)(13), and unless operation of such engines shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(c)]
- ii. The emergency engines in GEU-5 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for each emergency engine in GEU-5 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engines in GEU-5 beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- iii. The emergency engines in GEU-5 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing specified in Section III.H.1.a.ii of this permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the hours of operation of each emergency engine in GEU-5 recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- ii. The Permittee shall make and maintain records of the hours of operation of each emergency engine in GEU-5 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

The Permittee shall 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. Sulfur Content

a. Limitation and Restrictions

The Permittee shall not cause or allow the diesel fired emergency engines in GEU-5 to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in section 22a-174-42 of the Regulations of Connecticut State Agencies. [RCSA §22a-174-3(b)(e)(2)(D)]

b. Monitoring and Testing Requirements

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

c. Record keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines in GEU-5: [RCSA §22a-174-3b(h)]
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the nongaseous fuel as a condition of each shipment

d. Reporting Requirements

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

3. Work Practices and Maintenance Requirements

a. Limitations and Restrictions

- i. The Permittee shall change the oil and filter for each emergency engine in GEU-5 every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i).
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(a)]
- ii. The Permittee shall inspect the spark plugs of each emergency engine in GEU-5 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(b)]
- iii. The Permittee shall inspect all the hoses and belts of each emergency engine in GEU-5 every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(c)]

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall minimize the GEU-5 emergency engines' time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If any of the emergency engines in GEU-5 are operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.H.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.
[40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- vi. The Permittee shall at all times operate and maintain the emergency engines in GEU-5, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]
- vii. The Permittee shall also operate and maintain the emergency engines in GEU-5 and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(4)]
- ii. The Permittee shall keep records of the maintenance conducted on the GEU-5 emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans. [40 CFR §§63.6655(e)]
- iii. 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 §6655(a)(2)]
- iv. The Permittee shall keep records of the 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)]

Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]
- vi. As specified in 40 CFR §63.10(b)(1) the Permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]
- vii. The Permittee must keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(c)]

d. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.H.3.a.i through III.H.3.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. If the work practices and/or maintenance requirements listed in Sections III.H.3.a.i through iii of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.H.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

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

1. Hours of Operation

a. Limitations and Restrictions

- i. There is no time limit on the use of the emergency engine EU-33 in emergency situations [40 CFR §63.6640(f)(1)]
- ii. The emergency engine EU-33 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for emergency engine EU-33 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency engine EU-33 beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- iii. EU-33 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing specified in Section III.I.1.a.ii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a

Section III: Applicable Requirements and Compliance Demonstration

financial arrangement with another entity.
[40 CFR §63.6640(f)(3)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

The Permittee shall keep records of the hours of operation of EU-33 recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
[40 CFR §63.6655(f)]

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. Work Practices and Maintenance Requirements

a. Limitations and Restrictions

- i. The Permittee shall change the oil and filter for emergency engine EU-33 every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i).
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(a)]
- ii. The Permittee shall inspect the spark plugs of emergency engine EU-33 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(b)]
- iii. The Permittee shall inspect all the hoses and belts of emergency engine EU-33 every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(6)(c)]
- iv. The Permittee shall minimize emergency engine EU-33's time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If emergency engine EU-33 is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.I.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.
[40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]

Section III: Applicable Requirements and Compliance Demonstration

- vi. The Permittee shall at all times operate and maintain emergency engine EU-33, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]
- vii. The Permittee shall also operate and maintain emergency engine EU-33 and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(4)]
- ii. The Permittee shall keep records of the maintenance conducted on EU-33 in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans. [40 CFR §§63.6655(e)]
- iii. 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 §6655(a)(2)]
- iv. The Permittee shall keep records of the 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)]
- v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]
- vi. As specified in 40 CFR §63.10(b)(1) the Permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]
- vii. The Permittee must keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, corrective action, report, or record, according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(c)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.I.2.a.i through III.I.2.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §§63.6640(b) and 63.6650(f)]
- ii. If the work practices and/or maintenance requirements listed in Section III.I.3.a of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.I.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]

J. EMISSIONS UNIT 34 (EU-34): EQ Basin EG Onan 150 DGFA – Emergency engine subject to RCSA §22a-174-3b and 40 CFR Part 63 Subpart ZZZZ requirements for existing compression ignition engines rated less than or equal to 500 bhp located at a major source of HAPs

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not allow the emergency engine EU-34 to operate except during periods specified under RCSA §22a-174-22e(a)(13), and unless operation of such engines shall not exceed 300 hours during any 12 month rolling aggregate.
[RCSA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(c)]
- ii. The emergency engine EU-34 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for emergency engine EU-34 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency engine EU-34 beyond 100 hours per calendar year. [40 CFR §63.66409(f)(2)(i)]
- iii. EU-34 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing specified in Section III.J.1.a.ii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [RCSA §63.6640(f)(3)]

b. Monitoring and Testing Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make records of the hours of operation for emergency engine EU-34 recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- ii. The Permittee shall maintain and keep records of the hours operation of emergency engine EU-34 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

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

2. Sulfur Content

a. Limitations and Restrictions

The Permittee shall not cause or allow the diesel fired emergency engine EU-34 to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in section 22a-174-42 of the Regulations of Connecticut State Agencies. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines: [RCSA §22a-174-3b(h)]
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

3. Work Practices and Maintenance Requirements

a. Limitations and Restrictions

- i. The Permittee shall change the oil and filter for emergency engine EU-34 every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements specified in 40 CFR §63.6625(i).
[40 CFR Part 63 Subpart ZZZZ Table 2c(1)(a)]
- ii. The Permittee shall inspect the air cleaner of emergency engine EU-34 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(1)(b)]
- iii. The Permittee shall inspect all the hoses and belts of emergency engine EU-34 every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR Part 63 Subpart ZZZZ Table 2c(1)(c)]
- iv. The Permittee shall minimize emergency engine EU-34's time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If emergency engine EU-34 is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Section III.J.3.a.i through iii. of this Title V permit, or if performing such practices and/or requirements would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.
[40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- vi. The Permittee shall at all times operate and maintain emergency engine EU-34, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]
- vii. The Permittee shall also operate and maintain emergency engine EU-34 and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

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

[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(4)]
- ii. The Permittee shall keep records of the maintenance conducted on emergency engine EU-34 in order to demonstrate that the emergency engine was operated and maintained according to the maintenance plan. [40 CFR §63.6655(e)]
- iii. 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 §6655(a)(2)]
- iv. The Permittee shall keep records of the 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)]
- v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(a)]
- v. As specified in 40 CFR §63.10(b)(1) the Permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(b)]
- vi. The Permittee must keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, corrective action, report, or record, according to 40 CFR §63.10(b)(1). [40 CFR §63.6660(c)]

d. Reporting Requirements

- i. The Permittee shall report each instance in which it did not meet the requirements listed in Section III.J.3.a.i through III.J.3.a.iv of this Title V permit. These must be reported according to the requirements specified in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. If the work practices and/or maintenance requirements listed in Sections III.J.3.a.i through iii of this Title V permit were not performed due to emergency or unacceptable risk pursuant to Section III.J.3.a.v of this Title V permit, the Permittee shall report any failure to perform any of the work practices and/or maintenance requirements on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ Table 2c Footnote 1]
- iii. The Permittee shall report each instance it did not meet the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6640(e)]

Section III: Applicable Requirements and Compliance Demonstration

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

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not allow the emergency engine EU-38 to operate except during periods specified under RCSCA §22a-174-22e(a)(13), and unless operation of such engines shall not exceed 300 hours during any 12 month rolling aggregate. [RCSCA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(c)]
- ii. The Permittee shall not cause or allow the emergency engine EU-38 to operate except during the periods specified under RCSCA §22a-174-22e(a)(13) as follows: [RCSCA §22a-174-22e(a)(13)]
 - (A) Emergencies;
 - (B) Testing;
 - (C) Scheduled maintenance;
 - (D) When the facility or operator interrupts power to the facility to perform construction maintenance or repair of the power distribution system for the facility or portion of the facility, or
 - (E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility. [RCSCA §§22a-174-3b(a)(6) and 22a-174-22e(a)(13)]
- iii. The emergency engine EU-38 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for EU-38 is limited to 100 hours per year in accordance with 40 CFR §63.6640(f)(2). [40 CFR §63.6640(f)(2)(i)]
- iv. The emergency engine EU-38 may be operated for up to 50 hours per calendar year in non-emergency situation. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response as specified in Section III.K.1.a.iii of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §60.4211(f)(3)]

b. Monitoring and Testing Requirements

The Permittee shall install non-resettable hour meters for emergency engine EU-38 if not already installed. [40 CFR §63.6625(f)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep records of the hours of operation of emergency engine EU-38 recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]
- ii. The Permittee shall make and maintain records of the hours of operation of each emergency engine for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

The Permittee shall 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. Sulfur Content

a. Limitations and Restrictions

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in section 22a-174-42 of the Regulations of Connecticut State Agencies. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in EU-38: [RCSA §22a-174-3b(h)]
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

3. Nitrogen Oxides

a. Limitations and Restrictions

- i. Emergency engine EU-38 is exempt from the following requirements of RCSA §22a-174-22e: [RCSA §22a-174-22e(c)(5)]
 - (A) the emissions limitations of subsection (d)(6);
 - (B) the tune-up requirements of subsection (i);
 - (C) the testing requirements of subsection (l); and
 - (D) the monitoring requirements of subsection (m).
- ii. The Permittee shall not operate the emergency engine EU-38 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 Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of “moderate” or lower obtained after 3 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 Permittee to refrain from operation of emergency engine EU-38 at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of emergency engine EU-38 from RCSA §22a-174-22e(d)(14) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep the following record for EU-38:
 - (A) Records required by 40 CFR §63.6655, as applicable; [RCSA §22a-174-22e(j)(2)(A)]
 - (B) The date and work performed for repairs, replacement of parts and other maintenance; [RCSA §22a-174-22e(j)(2)(B)]
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and [RCSA §22a-174-22e(j)(2)(F)]
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]

Section III: Applicable Requirements and Compliance Demonstration

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

d. Reporting Requirements

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

4. Work Practices and Operational Requirements

a. Limitations and Restrictions

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

b. Monitoring and Testing Requirements

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

c. Reporting Requirements

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

d. Reporting Requirements

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

- L. EMISSIONS UNIT 62 (EU-62): B257 750kW Caterpillar C27-T2 – Emergency engine subject to RCSA §22a-174-3b; RCSA §22a-174-22e; 40 CFR 63 Subpart ZZZZ requirements for new compression ignition engines located at an area source of HAPs and NSPS for compression ignition internal combustion engines under 40 CFR Part 60, Subpart III.**

1. Hours of Operation

a. Limitations and Restrictions

- i. The Permittee shall not allow the emergency engine EU-62 to operate except during periods specified under RCSA §22a-174-22e(a)(13), and unless operation of such engines shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §§22a-174-3b(a)(6) and 22a-174-3b(e)(2)(c)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall not cause or allow the emergency engine EU-62 to operate except during the periods specified under RCSA §22a-174e(a)(13) as follows: [RCSA §22a-174e(a)(13)]
 - (A) Emergencies;
 - (B) Testing;
 - (C) Scheduled maintenance;
 - (D) When the facility owner or operator interrupts power to the facility to perform construction, maintenance or repair of the power distribution system for the facility or portion of the facility; or
 - (E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility. [RCSA §§22a-174-3b(a)(6) and 22a-174-22e(a)(13)]
- iii. The emergency engine EU-62 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Operation for maintenance checks and readiness testing for emergency engine EU-62 is limited to 100 hours per year in accordance with 40 CFR §60.4211(f)(2). The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency engine EU-62 beyond 100 hours per calendar year. [40 CFR §60.4211(f)(2)(i)]
- iv. EU-62 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing as specified in Section III.L.1.a.iii of this Title V permit. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §60.4211(f)(3)]

b. Monitoring and Testing Requirements

- i. The permittee shall monitor the hours of operation of emergency engine EU-62 using a non-resettable hour meter. [40 CFR §60.4209(a)]
- ii. Record keeping specified in Section III.L.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the hours of operation of emergency engine EU-62 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- ii. If emergency engine EU-62 does not meet the standards applicable to non-emergency engines for 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 must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR §60.4214(b)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

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

2. Sulfur Content

a. Limitations and Restrictions

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

b. Monitor and Testing Requirements

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

c. Record keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in diesel fired emergency engine EU-62.
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) a sales receipt for the sale of motor vehicle diesel fuel from a retail location or
 - (C) a copy of a current contract with the fuel supplier the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.
[RCSA §22a-174-3b(h)]

d. Reporting Requirements

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

3. Nitrogen Oxides

a. Limitations and Restrictions

- i. Emergency engine EU-62 is exempt from the following requirements of RCSA §22a-174-22e: [RCSA §22a-174-22e(c)(5)]
 - (A) The emissions limitations of subsection (d)(6);
 - (B) The tune-up requirements of subsection (i);
 - (C) The testing requirements of subsection (l); and
 - (D) The monitoring requirements of subsection (m).
- ii. Operation of emergency engine EU-62 for routine, scheduled testing or maintenance is expressly prohibited on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups," or greater. If subsequent to the initial forecast of "moderate to unhealthy for sensitive groups", the forecast is revised to "moderate" or lower, the

Section III: Applicable Requirements and Compliance Demonstration

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” after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of “moderate to unhealthy for sensitive groups” or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of emergency engine EU-62 from RCSA §22a-174-22e(d)(14) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.L.3.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 keep the following records EU-62:

(A) Records required by 40 CFR §63.6655, as applicable; [RCSA §22a-174-22e(j)(2)(A)]

(B) The date and work performed for repairs, replacement of parts and other maintenance;
[RCSA §22a-174-22e(j)(2)(B)]

(C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and
[RCSA §22a-174-22e(j)(2)(F)]

(D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]

ii. The owner or operator of an emission unit subject to this section shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

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

4. Work Practices and Operational Requirements

a. Limitations and Restrictions

i. EU-62 meets the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart IIII. [40 CFR §63.6590(c)]

ii. The Permittee shall operate and maintain EU-62 to achieve the emission standards as required in 40 CFR §§60.4204 and 60.4205 over the entire life of this emergency engine.
[40 CFR §60.4206]

Section III: Applicable Requirements and Compliance Demonstration

- iii. The Permittee shall comply with the following, except as permitted under 40 CFR §60.4211(g) and Section III.L.4.a.iv of this Title V permit. [40 CFR §60.4211(a)]
 - (A) Operate and maintain the stationary combustion ignition internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (B) Change only those emission-related settings that are permitted by the manufacturer;
 - (C) Meet the requirements of 40 CFR Parts 89, 94, and or 1068, as they apply.
 - iv. The Permittee shall demonstrate compliance for a 2007 model year and later stationary compression ignition internal combustion engine by purchasing and engine certified to the emission standards as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g) and Section III.L.4.a.iv of this Title V permit. [40 CFR §60.4211(c)]
 - v. If the Permittee does not install, configure, operate, and maintain EU-62 according to the manufacturer's emission-related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, compliance must be demonstrated as specified in 40 CFR §§60.4211(g)(1) through (3). [40 CFR §60.4211(g)]
- b. *Monitoring and Testing Requirements*
- Record keeping specified in Section III.L.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]
- c. *Record Keeping Requirements*
- The Permittee shall maintain records sufficient to determine compliance with the limitation or restrictions in Section III.L.1.a of this Title V permit. [RCSA §33a-174-33(j)(1)(K)]
- d. *Reporting Requirements*
- i. The Permittee is not required to submit an initial notification under 40 CFR Part 60 Subpart IIII for EU-62. [40 CFR §60.4214(b)]
 - ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-17433(j)(1)(X)]

Section III: Applicable Requirements and Compliance Demonstration

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

1. VOC Emissions

a. Limitations and Restrictions

- i. The Permittee shall operate the cold cleaners in GEU-8 in accordance with the following requirements:
 - (A) Equip the cleaning device with a cover that is easily operated with one hand; [RCSA §22a-174-20(1)(3)(A)]
 - (B) Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system; [RCSA §22a-174-20(1)(3)(B)]
 - (C) Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container; [RCSA §22a-174-20(1)(3)(C)]
 - (D) Close the cover if parts are not being handled in the cleaner for two (2) minutes or more, or if the device is not in use; [RCSA §22a-174-20(1)(3)(D)]
 - (E) Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA § 22a-174-20(1)(3)(E)]
 - (F) If a degreasing solvent spray is used: [RCSA §22a-174-20(1)(3)(G)]
 - (1) supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray),
 - (2) maintain a solvent spray pressure that does not exceed ten (10) pounds per square inch as measured at the pump outlet, and
 - (3) perform spraying within the confines of the cold cleaning unit;
 - (G) Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip; [RCSA §22a-174-20(1)(3)(G)]
 - (H) Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling; [RCSA §22a-174-20(1)(3)(H)]
 - (I) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements; [RCSA §22a-174-20(1)(3)(I)]
 - (J) On or after May 1, 2008, use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius; and [RCSA §22a-174-20(1)(3)(K)]
 - (K) Sponges, fabric, wood, leather, paper and other absorbent material shall not be cleaned in a cold cleaning machine. [RCSA §22a-174-20(1)(3)(L)]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

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

[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the information identified in this subparagraph for a minimum of five (5) years after such record is made: [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 keep records demonstrating the unit's design and operational requirements in accordance with Section III.M.1 of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. 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)]

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

1. VOC Emissions

a. Limitations and Restrictions

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

c. Monitoring and Testing Requirements

Record keeping in Section III.N.1.c of this Title V permit shall be sufficient to meet other Monitoring 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 the following records to demonstrate compliance with Section III.N.1.a of this Title V permit: [RCSA § 22a-174-33(j)(1)(K)(ii)]

- (A) The name of solvent used; and
- (B) The percent VOC content by weight.

Section III: Applicable Requirements and Compliance Demonstration

d Reporting Requirements

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

O. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

- 1. Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
- 2. Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- 3. 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
- 4. Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
- 5. Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
- 6. Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
- 7. Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
- 8. Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
- 9. Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
- 10. No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
- 11. Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
- 12. Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
- 13. Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
- 14. Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen part per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B).

Section III: Applicable Requirements and Compliance Demonstration

13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e and §22a-174-22f.
16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
17. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
18. **Hazardous Air Pollutant Emissions:** Premises-wide HAP emissions shall be less than 10 tons per consecutive 12 months of any single HAP, which has been listed in Section 112(b) of the Federal Clean Air Act, or 25 tons per consecutive 12 months of any combination of HAPs. [P 070-0268]
19. **Protection of Stratospheric Ozone:** The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.
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 renovations 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 61 Subpart M.
21. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

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

Section V: State Enforceable Terms and Conditions

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

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 emissions units, at the premises which is not 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 emissions units, on such record, the record shall include, as available:
 - a. Description, including make and model;
 - b. Year of construction/installation or if a group, range of years of construction/installation
 - c. Maximum throughput or capacity; and
 - d. Fuel type, if applicable.
- D. Odors:** The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- E. Noise:** The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- F. Hazardous Air Pollutants (HAPs):** The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

Section V: State Enforceable Terms and Conditions

- G.** The Permittee shall comply with the requirements for Control of carbon Dioxide Emissions as set forth in RCSA §22a-174-31.
- H.** The Permittee shall comply with the requirements of Architectural and industrial Maintenance Coatings as set forth in RCSA §22a-174-41.
- I.** The Permittee shall comply with the requirements for Adhesives and Sealants as set forth in RCSA §22a-174-44.

Section VI: Title V Requirements

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

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:

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

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

This Title V permit shall not be deemed to:

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

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has 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.