



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 | 089-0083-TV |
| Client/Sequence/Town/Premises Numbers | 7442/01/089/80 |
| Date Issued | August 5, 2022 |
| Expiration Date | August 5, 2027 |

Corporation:

Lake Road Generating Company, LLC

Premises Location:

56 Alexander Parkway, Dayville, Connecticut 06241

Name of Responsible Official and Title:

Anthony Paradis, Plant Manager

All the following attached pages, 2 through 37, are hereby incorporated by reference into this Title V permit.

for

Katherine S. Dykes
Commissioner

August 5, 2022

Date

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Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

| <i>Abbreviation/Acronym</i> | <i>Description</i> |
|-----------------------------|--|
| bhp | Brake Horsepower |
| Btu | British Thermal Unit |
| Bureau | Bureau of Air Management |
| CAIR | Clean Air Act |
| CEMS | Continuous Emission Monitoring System |
| cf | Cubic feet |
| CFR | Code of Federal Regulations |
| CGS | Connecticut General Statute |
| CH ₂ O | Formaldehyde |
| CO | Carbon Monoxide |
| EU | Emission Unit |
| EPA | Environmental Protection Agency |
| gal | Gallon |
| GEU | Grouped Emission Unit |
| HAP | Hazardous Air Pollutant |
| hr | Hour |
| HRSG | Heat Recovery Steam Generator |
| kW | Kilowatt |
| lb | Pound |
| MM | Millions |
| MW | Megawatts |
| NH ₃ | Ammonia |
| NO _x | Nitrogen Oxides |
| NSR | New Source Review |
| O ₂ | Oxygen |
| P | Permit |
| PM-2.5 | Particulate Matter with diameter less than 2.5 micrometers |
| PM-10 | Particulate Matter with diameter less than 10 micrometers |
| ppm | Parts per million |
| ppmvd | Parts per million by volume, dry basis |
| RCSA | Regulations of Connecticut State Agencies |
| S | Sulfur |
| SCR | Selective Catalytic Reduction |
| SIC | Source Identification Code |
| SO ₂ | Sulfur Dioxide |
| SO _x | Sulfur Oxides |
| tpy | Tons per year |
| U.S.C. | United States Code |
| VOC | Volatile Organic Compound |

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electricity and steam generation
Primary SIC: 4911

Facility Mailing Address: Lake Road Generating Company, LLC
56 Alexander Parkway
Dayville, CT 06241

Telephone Number: (860) 779-8360

B. PREMISES DESCRIPTION

Lake Road Generating Company, LLC (Lake Road) operates a nominally rated 834 megawatt (MW) combined-cycle combustion turbine power plant in Dayville, Connecticut.

The facility consists of three ABB Combustion Turbines with Dry Low NO_x combustion systems, Water Injection (oil firing only), and Selective Catalytic Reduction (SCR), three heat recovery steam generators (HRSGs), three steam turbines, three air-cooled condensers, a 840,000 gallon No. 2 fuel oil storage tank and other ancillary equipment. The facility includes three single shaft power blocks. Each shaft has one combustion turbine and one steam turbine with a shared generator. The facility has an overall electrical generating efficiency of approximately 58%. Natural gas is the primary fuel with up to 12.8 MMgal of No. 2 fuel oil (0.05% S) annually per unit as a backup fuel.

Killingly is an attainment area for all air criteria pollutants in the state except ozone, for which it is a serious non-attainment area. Therefore, the threshold for defining major stationary source status for Lake Road for NO_x and VOC is 50 tpy and for all other pollutants (PM-10, SO_x, CO) is 100 tpy. Based on threshold limit and the potential emissions (maximum allowable emission limits) for the pollutants, Lake Road is major for NO_x, CO, PM-10, TSP, VOC and SO_x. Lake Road is a Title V source because it is a major source.

According to 40 CFR Parts 72, 73, and 75 the power plant is designated as a Phase II Acid Rain Source and a Title IV permit is included in this Title V permit.

Lake Road is not major for HAPs. However, it is an area source subject to 40 CFR Part 63 Subpart ZZZZ.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

| TABLE II.A: EMISSIONS UNITS DESCRIPTION | | | |
|---|--|--|---|
| Emissions Unit/ Grouped Emissions Unit | Emissions Unit Description | Control Unit Description | Permit or Regulation Number |
| EU-1 | 278 MW (combined cycle) Alstom (ABB) Combustion Turbine, GT-24, Unit No. 1 | NO _x : SCR, Dry Low NO _x burner, Water Injection (oil) CO: Oxidation Catalyst | P-089-0067 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK Title IV |
| EU-2 | 278 MW (combined cycle) Alstom (ABB) Combustion Turbine, GT-24, Unit No. 2 | NO _x : SCR, Dry Low NO _x burner, Water Injection (oil) CO: Oxidation Catalyst | P-089-0068 RCSA §22a-174-22e RCSA §22a-174-22(e) 40 CFR Part 60 Subpart KKKK Title IV |
| EU-3 | 278 MW (combined cycle) Alstom (ABB) Combustion Turbine, GT-24, Unit No. 3 | NO _x : SCR, Dry Low NO _x burner, Water Injection (oil) CO: Oxidation Catalyst | P-089-0069 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK Title IV |
| EU-4 | Caterpillar Diesel Generator No. 1 (300 kW) | None | RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 63 Subpart ZZZZ |
| EU-5 | Caterpillar Diesel Generator No. 2 (300 kW) | None | RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 63 Subpart ZZZZ |
| EU-6 | Caterpillar Diesel Generator No. 3 (300 kW) | None | RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 63 Subpart ZZZZ |
| EU-7 | Caterpillar Emergency Firepump (310 bhp) | None | RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 63 Subpart ZZZZ |
| GEU-1 | EU-1, EU-2, & EU-3 | As above | As above |
| GEU-2 | EU-4, EU-5, EU-6, & EU-7 | As above | As above |

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

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

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSIONS UNIT 1 (GEU-1) - Three 264 MW Alstom (ABB) Combustion Turbines, GT-24 (Subject to P-089-0067, P-089-0068, P-089-0069, RCSA §22a-174-22e, 40 CFR Part 60 Subpart KKKK)

1. NO_x

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas
 - (A) 17.1 lb/hr per EU [P-089-0067, P-089-0068, P-089-0069]
 - (B) 2.0 ppmvd @ 15% O₂ per EU [P-089-0067, P-089-0068, P-089-0069]
 - (C) 42 ppmvd @ 15% O₂ per EU until May 31, 2023 (Phase 1) [RCSA §22a-174-22e(d)(5)(A)]
 - (D) 25 ppmvd @ 15% O₂ per EU beginning June 1, 2023 and continuing thereafter (Phase 2) [RCSA §22a-174-22e(d)(5)(C)]
 - (E) 0.15 lb/MMBtu heat input per EU (Oct 1 to Apr 30, inclusive) [RCSA §22a-174-22e(d)(5)(B)]
- ii. No. 2 Fuel Oil
 - (A) 52.3 lb/hr per EU [P-089-0067, P-089-0068, P-089-0069]
 - (B) 5.9 ppmvd @ 15% O₂ per EU [P-089-0067, P-089-0068, P-089-0069]
 - (C) 65 ppmvd @ 15% O₂ per EU until May 31, 2023 (Phase 1) [RCSA §22a-174-22e(d)(5)(A)]
 - (D) 42 ppmvd @ 15% O₂ per EU beginning June 1, 2023 and continuing thereafter (Phase 2) [RCSA §22a-174-22e(d)(5)(C)]
 - (E) 0.15 lb/MMBtu heat input per EU (Oct 1 to Apr 30, inclusive) [RCSA §22a-174-22e(d)(5)(D)]
- iii. Events (Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed and Re-commissioning) Firing Natural Gas or No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
 - (A) Start-up and Shutdown: 700 lb/event per EU
 - (B) Protective Load Shed: 2,400 lb/event per EU
 - (C) Fuel Switching and Equipment Tuning: 2,400 lb/event per EU
 - (D) Re-commissioning: 600.0 lb/hr per EU
- iv. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
 - (A) 79.5 tpy per EU
 - (B) 248.0 tpy premises total
- v. 40 CFR Part 60 Subpart KKKK [P-089-0067, P-089-0068, P-089-0069]
 - (A) Natural Gas: 15 ppmvd @ 15% O₂ [40 CFR 60 Subpart KKKK, Table 1]
 - (B) No. 2 Fuel Oil: 42 ppmvd @ 15% O₂ [40 CFR 60 Subpart KKKK, Table 1]
 - (C) Natural Gas or No. 2 Fuel Oil: 96 ppmvd @ 15% O₂ (< 75% load) [40 CFR 60 Subpart KKKK, Table 1]
 - (D) If the total heat input for any unit in GEU-1 is greater than or equal to 50 percent natural gas, the Permittee must meet the corresponding limit, for that unit in GEU-1, for a natural gas-fired

Section III: Applicable Requirements and Compliance Demonstration

turbine when burning that fuel. Similarly, when the total heat input for any unit in GEU-1 is greater than 50 percent distillate oil and fuels other than natural gas, the Permittee must meet the corresponding limit for distillate oil and fuels other than natural gas, for that unit in GEU-1, for the duration of the time that the unit burns that particular fuel. [40 CFR §60.4325]

b. Monitoring and Testing Requirements

- i. The Permittee shall install, operate, calibrate and maintain a CEM system that shall continuously monitor and record NO_x emissions in accordance with the performance and quality assurance specifications contained in RCSA §§22a-174-4, -22c(i), -22e, 40 CFR Part 60 Subpart KKKK, Subpart A, Appendix B and Appendix F and 40 CFR Parts 72-78, as applicable. [P-089-0067, P-089-0068, P-089-0069; RCSA §22a-174-22e(m)(4), RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall collect quality assured CEM data for all emission unit operating conditions. Data collection shall include periods of start-up or shutdown, monitoring system malfunctions, 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-22e(m)(2)]
- iii. The Permittee shall conduct any performance or quality assurance testing in accordance with a testing protocol approved by the commissioner. [RCSA §22a-174-22e(m)(4)]
- iv. The averaging time for the NO_x emission limitations with the use of the CEMS shall be a three hour block average. [P-089-0067, P-089-0068, P-089-0069]
- v. After the initial stack test, stack testing may not be required for pollutants with CEM. The commissioner retains the right to require stack testing of any pollutant at any time to demonstrate compliance. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- ii. Records of the dates and times of all emission testing, 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)]
- iii. CEM system records [RCSA §22a-174-22e(j)(2)(D)]:
 - (A) Records of all performance evaluations, calibration checks and adjustments on such monitor,
 - (B) A record of maintenance performed,
 - (C) All data necessary to complete the quarterly reports required under RCSA §22a-174-22e(k)(3), and
 - (D) 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.
- iv. Calculations of actual NO_x emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.1.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained. [P-089-0067, P-089-0068, & P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]
- v. The Permittee shall maintain reports of all monitoring and test data in accordance with RCSA §22a-

Section III: Applicable Requirements and Compliance Demonstration

174-4(d). [RCSA §22a-174-4(d)(1)]

- vi. The Permittee shall maintain a file of all measurements, including continuous 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 these systems or devices; and all other information required by this Title V permit recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records, except as follows: [40 CFR §60.7(f); RCSA §22a-174-33(o)(2)]
 - (A) For an automated CEMS where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS sub-hourly measurements as required under 40 CFR §60.7(f), the Permittee shall retain the most recent consecutive three averaging periods of sub-hourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.
 - (B) For a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS sub-hourly measurements as required under 40 CFR §60.7(f), the Permittee shall retain all sub-hourly measurements for the most recent reporting period. The sub-hourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the commissioner and the Administrator.
 - (C) The commissioner and/or the Administrator, upon notification to the Permittee, may require the Permittee to maintain all measurements as required by 40 CFR §60.7(f), if the commissioner and/or the Administrator determines these records are required to more accurately assess the compliance status of the units.

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.A.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall submit to the commissioner and the Administrator a notification of any physical or operational change to any of the emissions units in GEU-1 which may increase the emission rate of NO_x unless that change is specifically exempted under an applicable subpart of 40 CFR Part 60 or in 40 CFR §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The commissioner and the Administrator may request additional relevant information subsequent to this notice. [40 CFR §60.7(a)(4)]
- iii. An exceedance of the emission limits set forth in Section III.A.1.a of this Title V permit shall not be deemed a "Federally Permitted Release," as that term is used in 42 U.S.C. 9601(10). [P-089-0067, P-089-0068, P-089-0069]
- iv. The Permittee shall notify the commissioner in writing of any emergency or malfunction at the premise. The notification should include the following: [P-089-0067, P-089-0068, P-089-0069]
 - (A) a description of the circumstances surrounding the cause or likely cause of such emergency or malfunction; and

Section III: Applicable Requirements and Compliance Demonstration

- (B) a description of all corrective actions and preventive measures taken with respect to such emergency or malfunction and the dates of such actions and measures.
- v. The Permittee 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;
 - (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.
- vi. The Permittee shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of any CEM for NO_x. [RCSA §22a-174-22e(m)(4)]
- vii. Not more than 60 days after the completion of a certification test conducted under the requirements of RCSA §22a-174-22e(m), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(2)]
- viii. Upon written notice, the commissioner may require the Permittee 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)]
- ix. The Permittee shall submit required reports pursuant to 40 CFR §60.4375.

2. SO₂

a. *Limitation or Restriction*

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas [P-089-0067, P-089-0068, P-089-0069]
4.73 lb/hr per EU
- ii. No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
117.0 lb/hr per EU
- iii. Natural Gas and No. 2 Fuel Oil
 - (A) 0.33 lb/MMBtu heat input for each calendar quarter per EU; or
 - (B) 0.3 lb/MMBtu heat input for each calendar quarter for the average of two or more subject EU's [RCSA §22a-174-19a(e)]
 - (C) 0.060 lb/MMBtu per EU [40 CFR §60.4330(a)(2)]
- iv. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
 - (A) 61.0 tpy per EU
 - (B) 184.0 tpy premises total

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

- i. The Permittee shall install, maintain and operate a monitoring system capable of calculating the hourly SO₂ mass emission rate, consistent with the procedures in Appendix D to 40 CFR Part 75 and shall record the output of the system. [RCSA §22a-174-33(j)(K)(ii)]
- ii. The Permittee shall use data recorded by the SO₂ monitoring system and other pertinent data and records to determine compliance with SO₂ limits. [RCSA §22a-174-33(j)(K)(ii)]
- iii. The Permittee shall determine compliance with the SO₂ limitation of 40 CFR §60.4330(a)(2) by complying with the monitoring requirements of 40 CFR §§60.4360 through 60.4370. [40 CFR Part 60 Subpart KKKK]
- iv. 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 each unit in GEU-1 has potential sulfur emissions of less than 0.060 lb SO₂/MMBtu heat input. [40 CFR §60.4365(a)]
- v. The commissioner retains the right to require stack testing of any pollutant at any time to demonstrate compliance. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The current, valid purchase contract, tariff sheet or transportation contract for each fuel as specified in Section III.A.2.b.iv of this Title V permit in order to demonstrate compliance with Section III.A.2.a.iii.(C) of this Title V permit. [40 CFR §60.4365(a)]
- ii. Calculations of actual SO₂ emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.2.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained. [P-089-0067, P-089-0068, P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. Reports of all monitoring and test data in accordance with RCSA §22a-174-4(d). [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall submit to the commissioner and the Administrator a notification of any physical or operational change to any of the emissions units under GEU-1 which may increase the emission rate of SO₂, unless that change is specifically exempted under an applicable subpart of 40 CFR Part 60 or in 40 CFR §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The commissioner and the Administrator may request additional relevant information subsequent to this notice. [40 CFR §60.7(a)(4)]
- ii. The Permittee shall submit required reports pursuant to 40 CFR §60.4375. [40 CFR Part 60 Subpart KKKK]
- iii. The Permittee shall provide the records specified in Section III.A.2.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

3. VOC

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas [P-089-0067, P-089-0068, P-089-0069]
3.08 lb/hr per EU
- ii. No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
17.5 lb/hr per EU
- iii. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
 - (A) 18.7 tpy per EU
 - (B) 49.9 tpy premises total

b. Monitoring and Testing Requirements

- i. Calculations of VOC emissions for each unit using the following procedure shall be done to demonstrate compliance with the VOC limit: [P-089-0067, P-089-0068, P-089-0069]
 - (A) for each unit in GEU-1, the monthly VOC emissions, VOC_{turbines} , shall be determined by correlating the VOC emissions to percent load using the results of a diagnostic stack test and tracked using the CEMS. VOC emissions shall be calculated and recorded on the CEMS.
 - (B) for each emergency engine in GEU-2, the monthly VOC emissions, VOC_{engines} shall be calculated using the following equation:
$$[X (\text{VOC lb/hr using diesel}) * Y (\text{hr/month})] * 1 \text{ ton}/2000 \text{ lb} = \text{tons per month of VOC}$$
 - (C) for the storage tank, the monthly VOC emissions ($VOC_{\text{storage tanks}}$) shall be determined using the latest version of the EPA's Tanks program or equivalent method while No. 2 fuel oil is being stored in the tank.
- ii. The total monthly VOC emissions shall be determined with the following equation:
[P-089-0067, P-089-0068, P-089-0069]

$$VOC_{\text{total}} = \Sigma VOC_{\text{turbines}} + \Sigma VOC_{\text{engines}} + \Sigma VOC_{\text{storage tanks}}$$

These calculations shall be made on a monthly basis and made available for inspection by this Bureau upon request within 30 days.

- iii. Stack emission testing shall be performed at least once every five years from the date of the last stack test while firing natural gas; and while firing No. 2 fuel oil, at least once every five years from the date of the last stack test, or before 700 hours operating on oil, whichever is longer.
[P-089-0067, P-089-0068, P-089-0069]
- iv. VOC emissions shall be calculated and recorded on the CEMS utilizing gas turbine percent load.
[P-089-0067, P-089-0068, P-089-0069]
- v. The commissioner retains the right to require stack testing of any pollutant at any time to demonstrate compliance. [P-089-0067, P-089-0068, P-089-0069]

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c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. Demonstration of compliance with the annual VOC premises-wide limit shall be based on any consecutive 12 month time period and shall be determined by adding the current month's total VOC emissions to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P-089-0067, P-089-0068, P-089-0069; RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Calculations of actual VOC emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.3.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained.
[P-089-0067, P-089-0068, P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.3.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

4. CO

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas [P-089-0067, P-089-0068, P-089-0069]
 - (A) 52.4 lb/hr (50-74% load)
 - (B) 20.0 ppmvd @ 15% O₂ (50-74% load)
 - (C) 13.8 lb/hr (75-99% load)
 - (D) 4.0 ppmvd @ 15% O₂ (75-99% load)
 - (E) 14.0 lb/hr (100% load)
 - (F) 3.0 ppmvd @ 15% O₂ (100% load)
- ii. No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
 - (A) 23.7 lb/hr (75-99% load)
 - (B) 5.0 ppmvd @ 15% O₂ (75-99% load)
 - (C) 22.4 lb/hr (100% load)
 - (D) 4.0 ppmvd @ 15% O₂ (100% load)
- iii. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
 - (A) 96.6 tpy per EU
 - (B) 295.0 tpy premises total
- iv. Events (Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed and Re-commissioning) Firing Natural Gas or No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
 - (A) Start-up, Shutdown, Fuel Switching, Equipment Tuning and Protective Load Shed:
1,300 lb/event per EU
 - (B) Re-commissioning: 325.0 lb/hr per EU

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b. *Monitoring and Testing Requirements*

- i. The Permittee shall install, calibrate, maintain, and operate a CEMS and recording systems for measuring the CO discharged to the atmosphere and shall record the output of the systems. [P-089-0067, P-089-0068, P-089-0069]
- ii. The CEMS shall be installed, calibrated, operated and tested in accordance with the Department's Continuous Emission Monitoring Guideline (dated August 19, 1996) and with the applicable requirements specified in 40 CFR Part 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time. [40 CFR Part 60 Subpart A]
- iii. The averaging time for the CO emission limitations with the use of the CEMS shall be one hour block average. [P-089-0067, P-089-0068, P-089-0069]
- iv. The Permittee shall monitor turbine load. [P-089-0067, P-089-0068, P-089-0069]
- v. When the unit load transitions through more than one permit load range during any one hour block, the emissions limitation for the lowest operating range shall apply. [P-089-0067, P-089-0068, P-089-0069]
- vi. After the initial stack test, stack testing may not be required for pollutants with CEM. The commissioner retains the right to require stack testing of any pollutant at any time to demonstrate compliance. [P-089-0067, P-089-0068, P-089-0069]

c. *Record Keeping Requirements*

The Permittee shall make and maintain the following records:

- i. Calculations of actual CO emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.4.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained. [P-089-0067, P-089-0068, & P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep records of turbine load. [P-089-0067, P-089-0068, P-089-0069]

d. *Reporting Requirements*

The Permittee shall provide the records specified in Section III.A.4.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

5. **PM/PM-10/PM-2.5**

a. *Limitation or Restriction*

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas
 - (A) 21.8 lb/hr per EU [P-089-0067, P-089-0068, P-089-0069]
 - (B) 0.10 lb/MMBtu heat input per EU [RCSA §22a-174-18(e)]
- ii. No. 2 Fuel Oil
 - (A) 85.9 lb/hr per EU [P-089-0067, P-089-0068, P-089-0069]
 - (B) 0.10 lb/MMBtu heat input per EU [RCSA §22a-174-18(e)]
- iii. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]

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- (A) 118.0 tpy per EU
- (B) 356.0 tpy premises total

b. Monitoring and Testing Requirements

- i. Stack emission testing shall be performed at least once every five years from date of the last stack test. However, while firing No. 2 fuel oil, stack emissions testing shall be performed every five years from the date of the last test or before 700 hours operating on oil, whichever is longer.
[P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. Calculations of actual PM/PM-10/PM-2.5 emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.5.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained.
[P-089-0067, P-089-0068, & P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.5.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

6. Ammonia (NH₃)

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas [P-089-0067, P-089-0068, P-089-0069]
 - (A) 31.5 lb/hr per EU
 - (B) 10.0 ppmvd @ 15% O₂
- ii. No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
 - (A) 33.9 lb/hr per EU
 - (B) 10.0 ppmvd @ 15% O₂
- iii. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
128 tpy per EU
- iv. Events (Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed and Re-commissioning) Firing Natural Gas [P-089-0067, P-089-0068, P-089-0069]
 - (A) Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed:
114.8 lb/event per EU
 - (B) Re-commissioning: ≤ 28.7 lb/hr per EU
- v. Events (Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed and Re-commissioning) Firing No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
 - (A) Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed:

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135.6 lb/event per EU

(B) Re-commissioning: 33.9 lb/hr per EU

b. *Monitoring and Testing Requirements*

- i. The Permittee shall install, calibrate, maintain, and operate a CEMS and recording systems for measuring the NH₃ discharged to the atmosphere and shall record the output of the systems. [P-089-0067, P-089-0068, P-089-0069]
- ii. The averaging time for the NH₃ emission limitations with the use of the CEMS shall be a three hour block average. [P-089-0067, P-089-0068, P-089-0069]
- iii. The Permittee shall replace the SCR catalyst after the projected catalyst life based on manufacturer's testing is reached. [P-089-0067, P-089-0068, P-089-0069]
- iv. After the initial stack test, stack testing may not be required for pollutants with CEM. The commissioner retains the right to require stack testing of any pollutant any time to demonstrate compliance. [P-089-0067, P-089-0068, P-089-0069]
- v. Annual emissions shall be verified by the Permittee, by adding the current month's emissions to the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

The Permittee shall make and maintain the following records:

- i. Calculations of actual NH₃ emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.6.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained. [P-089-0067, P-089-0068, & P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall make and keep records of the operating hours of the catalyst along with the testing of projected catalyst life. [P-089-0067, P-089-0068, P-089-0069]

d. *Reporting Requirements*

The Permittee shall provide the records specified in Section III.A.6.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

7. **Formaldehyde (CH₂O)**

a. *Limitation or Restriction*

The Permittee shall not cause or allow this equipment to exceed the following emission limits:

- i. Natural Gas [P-089-0067, P-089-0068, P-089-0069]
0.785 lb/hr per EU
- ii. No. 2 Fuel Oil [P-089-0067, P-089-0068, P-089-0069]
0.637 lb/hr per EU
- iii. Maximum Annual Emissions [P-089-0067, P-089-0068, P-089-0069]
 - (A) 3.329 tpy per EU
 - (B) 9.9 tpy premises total

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b. Monitoring and Testing Requirements

- i. Demonstration of compliance with the annual premises-wide CH₂O limit shall be enforced on a 12 month rolling basis. [P-089-0067, P-089-0068, P-089-0069]
- ii. Stack emission testing shall be performed at least once every five years from the date of the last stack test while firing natural gas, and while firing No. 2 fuel oil, at least once every five years from the date of the last stack test, or before 700 hours operating on oil, whichever is longer. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. Calculations of actual CH₂O emissions on an hourly, monthly and annual basis to demonstrate compliance with the emissions limitations in Section III.A.7.a of this Title V permit. Annual emissions shall be calculated by adding the current month's emissions to the previous 11 months' emissions. This calculation shall be made monthly. Documentation in support of any assumptions made in these calculations shall be maintained. [P-089-0067, P-089-0068, & P-089-0069, RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.7.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

8. Opacity – Natural Gas Firing

a. Limitation or Restriction

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

b. Monitoring and Testing Requirements

If required by the commissioner, the Permittee shall verify opacity when firing natural gas using visible emissions testing as measured by 40 CFR Part 60, Appendix A, Reference Method 9 or other method approved by the Department. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The Permittee shall maintain records of opacity for each unit. [RCSA §22a-174-4(d)(1), RCSA §22a 174-33(o)(2)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.8.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

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9. Opacity – No. 2 Oil Firing

a. Limitation or Restriction

- i. Except during periods of start-up or shutdown; commissioner-approved stack testing; or intentional sootblowing, fuel switching or sudden load changing done in accordance with good engineering practices, the Permittee shall not exceed the following visible emissions limits for each unit when firing No. 2 fuel oil:
[RCSA §22a-174-18(b)(2)(A) & (B); RCSA §22a-174-18(j)(1)(A) to (C)]
 - (A) Twenty percent (20%) opacity during any six-minute block average; or
 - (B) Forty percent (40%) opacity during any one-minute block average.
- ii. The period of exception from the visible emissions standards (i.e. during periods of start-up or shutdown; commissioner-approved stack testing; or intentional sootblowing, fuel switching or sudden load changing done in accordance with good engineering practices) shall not exceed one-half of one percent (0.5%) of the total operating hours of such stationary source during any calendar quarter.
[RCSA §22a-174-18(j)(1)(B)]
- iii. The Permittee shall not cause or allow visible emissions for each unit in excess of 60 percent (60%) opacity during any six-minute block average of the period of exception from the visible emissions standards (i.e. during periods of start-up or shutdown; commissioner-approved stack testing; or intentional sootblowing, fuel switching or sudden load changing done in accordance with good engineering practices). [RCSA §22a-174-18(j)(1)(C)]

b. Monitoring and Testing Requirements

- i. The Permittee shall install, calibrate, maintain, and operate a CEMS and recording systems for measuring the opacity discharged to the atmosphere when firing No. 2 fuel oil and shall record the output of the systems. [P-089-0067, P-089-0068, & P-089-0069; RCSA §22a-174-4(b)]
- ii. The CEMS equipment shall be installed, calibrated, operated and tested in accordance with P-089-0067, P-089-0068, and P-089-0069. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The averaging time for the opacity limitations with the use of the CEMS shall be six-minute block average. [P-089-0067, P-089-0068, P-089-0069]
- iv. If required by the commissioner, the Permittee shall verify opacity when firing No. 2 fuel oil using visible emissions testing as measured by 40 CFR Part 60, Appendix A, Reference Method 9 or other method approved by the Department. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The Permittee shall maintain records of opacity for each unit.
[RCSA §22a-174-4(d)(1), RCSA §22a-174-33(o)(2)]
- ii. The Permittee shall maintain records of periods of exception from the visible emissions standards for each unit. [RCSA §22a-174-4(d)]

d. Reporting Requirements

- i. The Permittee shall submit to the commissioner a report summarizing opacity CEMS data for the preceding three months when firing No. 2 fuel oil. Such report shall be due not later than 30 days following the end of each calendar quarter. [P-089-0067, P-089-0068, P-089-0069]
- ii. The Permittee shall provide the records specified in Section III.A.9.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

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10. Fuel Consumption, Operating Hours and Heat Rate

a. Limitation or Restriction

- i. Maximum Annual Fuel Consumption per Unit [P-089-0067, P-089-0068, P-089-0069]
 - (A) Natural Gas: 18,700 MMcf
 - (B) No. 2 Fuel Oil: 12.8 MMgal
- ii. The primary fuel used shall be natural gas and the back-up fuel shall be No. 2 fuel oil with a sulfur content of no more than 0.05% by weight. [P-089-0067, P-089-0068, P-089-0069]
- iii. Maximum Allowable Heat Rate, per Unit, on a 12 Month Rolling Basis: 7,702 MMBtu/kWh net [P-089-0067, P-089-0068, P-089-0069]

b. Monitoring and Testing Requirements

- i. The Permittee shall use a fuel-metering device to continuously monitor fuel feed to each unit. [P-089-0067, P-089-0068, P-089-0069]
- ii. The premises shall be equipped with on-site No. 2 fuel oil unloading capabilities to supplement the fuel supply, in the event that the No. 2 fuel oil operation is beyond the limits of the on-site storage. The oil shall be delivered directly to the storage tank. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The Permittee shall make and keep records of monthly and annual operating hours and fuel consumption for each unit. Annual records shall be based on any consecutive 12 month time period and shall be determined by adding (for each fuel) the current month's hours and fuel usage to that of the previous 11 months. These calculations shall be made on a monthly basis and made available for inspection by this Bureau upon request. [P-089-0067, P-089-0068, P-089-0069]
- ii. The Permittee shall keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis and the method used to determine the sulfur content of such fuel. [RCSA §22a-174-33(j)(1)(K)]
- iii. The Permittee shall keep records of turbine heat rate on a 12 month rolling average basis for each unit. The Permittee shall make these calculations within 30 days of the end of the previous month. [P-089-0067, P-089-0068, P-089-0069]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.10.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

11. Start-up, Shutdown, Fuel Switching, Equipment Tuning, Protective Load Shed and Re-Commissioning Events

a. Limitation or Restriction

- i. The Permittee shall comply with the allowable emission limits in Sections III.A.1.a, 4.a, and 6.a of this Title V permit for any operating time beyond the event limits stated in Sections III. A.11.ii and iii of this Title V permit. [P-089-0067, P-089-0068, P-089-0069]

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- ii. Start-up, shutdown, fuel switching, equipment tuning and protective load shed periods shall not exceed 240 minutes for each event. This limitation does not apply during re-commissioning after completion of a major inspection. [P-089-0067, P-089-0068, P-089-0069]
- iii. After completion of a gas turbine major inspection, the Permittee shall re-commission and tune the gas turbine as required by the original equipment manufacturers requirements. The maximum duration for each re-commissioning (not including start-up and shutdown events) is 30 hours. [P-089-0067, P-089-0068, P-089-0069]

b. Monitoring and Testing Requirements

- i. The frequency and duration of operation during these periods shall be minimized to the maximum extent practicable. [P-089-0067, P-089-0068, P-089-0069]
- ii. All possible steps shall be taken to minimize the impact of emissions during these periods. [P-089-0067, P-089-0068, P-089-0069]
- iii. At all times, the units shall be operated in a manner consistent with good practice for minimizing emissions, and the source shall have best efforts regarding planning, design, and operating procedures to meet the otherwise applicable emission limitation. [P-089-0067, P-089-0068, P-089-0069]
- iv. The Permittee's actions during these periods shall be documented by properly signed, contemporaneous operating logs, or other relevant evidence. [P-089-0067, P-089-0068, P-089-0069]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. The Permittee shall maintain for each unit hourly, monthly and annual actual NO_x, CO, and NH₃ emissions during start-up, shutdown, fuel switching, equipment tuning, and re-commissioning periods. The annual emissions shall be calculated each calendar month by adding the current calendar month's emissions to those of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P-089-0067, P-089-0068, P-089-0069]
- ii. The Permittee shall maintain a record of each event and the duration. [P-089-0067, P-089-0068, P-089-0069]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.11.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

12. Operating Requirements

- a. GEU-1 shall be operated with dry low NO_x burners and Selective Catalytic Reduction (SCR) when firing natural gas, and water injection and SCR when firing No. 2 fuel oil, for the control of NO_x. GEU-1 shall also be operated with an oxidation catalyst for the control of CO. [P-089-0067, P-089-0068, P-089-0069]
- b. During any air pollution emergency episode that occurs, GEU-1 shall be operated in accordance with the Updated Facility Emergency Episode Plans submitted to the Department. [P-089-0067, P-089-0068, P-089-0069]
- c. The operation and maintenance plan for the opacity monitor(s) shall be in accordance with RCSA §22a-174-4(c)(4) and with the requirements specified in 40 CFR Part 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time. [P-089-0067, P-089-0068, P-089-0069]

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- d. The required opacity monitor(s) shall be operational at any time that GEU-1 is in operation when using No. 2 fuel oil. [P-089-0067, P-089-0068, P-089-0069]
- e. Except for necessary maintenance, no person shall deliberately shut down any monitoring device or method required while the turbine being monitored is in operation or is emitting air pollutants. [P-089-0067, P-089-0068, P-089-0069]
- f. The failure of any monitoring equipment in no way relieves the Permittee from the responsibility to comply with applicable regulations or standards. [P-089-0067, P-089-0068, P-089-0069]
- g. Altering any monitoring devices or methods so as to falsify their readings or results shall be a violation to the terms and conditions of this Title V permit. [P-089-0067, P-089-0068, P-089-0069]
- h. Prior to replacement of any CEMS, the facility shall submit, at least 60 days prior to initiation of the CEMS performance specification testing, the CEMS Monitoring Plan required by RCSA §22a-174-4(d). [P-089-0067, P-089-0068, P-089-0069]
- i. The CEMS equipment shall be installed and operational prior to conducting source compliance testing. [P-089-0067, P-089-0068, P-089-0069]
- j. The Permittee shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c) and (d) of 40 CFR §60.4345. For the CEMS and fuel flow meters, the Permittee may satisfy these requirements by implementing the QA program and plan described in section 1 of Appendix B to 40 CFR Part 75. [40 CFR §60.4345(e); P-089-0067, P-089-0068, P-089-0069]
- k. GEU-1 must be operated using good combustion practices. [P-089-0067, P-089-0068, P-089-0069]
- l. GEU-1 shall be operated and maintained in accordance with the manufacturer's specifications and written recommendations. [P-089-0067, P-089-0068, P-089-0069]
- m. All the federal acid rain program (40 CFR Parts 72, 73, and 75) requirements shall be met at the appropriate time. [P-089-0067, P-089-0068, P-089-0069]
- n. The emission units in GEU-1 shall not exceed the emission limits stated at any time as determined in accordance with the applicable averaging periods defined in this Title V permit or as specified in an approved stack test protocol, except during periods of start-up, shutdown, fuel switching, equipment tuning, protective load shed, re-commissioning emergency and/or malfunction. During periods of start-up, shutdown, fuel switching, equipment tuning, protective load shed and re-commissioning, the emission units in GEU-1 shall not exceed the emission limits stated for these events. [P-089-0067, P-089-0068, P-089-0069]
- o. The Permittee shall monitor stack O₂ as a one hour block average, turbine load and ambient temperature. [P-089-0067, P-089-0068, P-089-0069]

B. GROUPED EMISSIONS UNIT 2 (GEU-2) - Three Caterpillar Diesel Generators (300 kW each) and an Emergency Diesel Fire Pump (310 bhp) (Subject to RCSA §22a-174-3b(e), RCSA §22a-174-22e, 40 CFR Part 63 Subpart ZZZZ)

1. Hours of Operation and Fuel Consumed

a. Limitation or Restriction

- i. The operation of each engine by the Permittee, shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. Any nongaseous fuel consumed by each unit shall not exceed the sulfur content of motor vehicle diesel fuel, as defined in RCSA §22a-174-42 nor the applicable limitations set forth in table 19b-1 of RCSA §22a-174-19b. [RCSA §§22a-174-3b(e)(2)(D); 22a-174-19b]

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- iii. The Permittee shall not cause or allow each unit to operate except during periods of testing and scheduled maintenance or during an emergency as defined in RCSA §22a-174-22e. [RCSA §22a-174-3b(e)(2)]
- iv. The Permittee shall not operate the emergency engine 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. [RCSA §22a-174-22e]

b. Monitoring and Testing Requirements

- i. The Permittee shall properly maintain each unit and operate the unit in accordance with RCSA §22a-174-3b. [RCSA §22a-174-3b(e)(1)]

c. Record Keeping Requirements

The Permittee shall make and maintain the following records:

- i. Information necessary for the commissioner to determine compliance with the requirements of RCSA §22a-174-3b. [RCSA §22a-174-3b(e)(3)]
- ii. For each unit, records of the hours of operation for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- iii. The date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)]
- iv. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used: [RCSA §§22a-174-3b(h)(1) thru (3) and 22a-174-19b(g)]
 - (A) A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel as a condition of each shipment. The certification or contract should include the items specified in RCSA §22a-174-19b(g)(3)
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location.

d. Reporting Requirements

- i. The Permittee shall provide the records specified in Section III.B.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-4(d)(1)]

2. RCSA Section 22a-174-18 – Control of Particulate Matter and Visible Emissions

a. Limitation or Restriction

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

b. Monitoring and Testing Requirements

Record keeping specified in Section III.B.2.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)]

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c. Record Keeping Requirements

The Permittee shall maintain records of any opacity observations initiated by the Permittee or at the request of the Commissioner. Such records shall include the dates, times, and places of all visible observations, persons performing the observation, test method used, the operating conditions at the time of the observation, and the results of such observations. Records shall be kept for a minimum of five years after such records were created. [RCSA §22a-174-33(o)(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)]

3. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engine

a. Limitation or Restriction

- i. The Permittee shall change oil and filter on each unit every 500 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ, Table 2d]
- ii. The Permittee shall install a non-resettable hour meter on each unit if one is not already installed. [40 CFR §63.6625(f)]
- iii. If an emissions unit is operating during an emergency and it is not possible to shut down the emissions unit in order to perform the management practice requirements on the schedule, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. [40 CFR Part 63 Subpart ZZZZ, Table 2d, footnote 2]
- iv. The Permittee may operate each emissions unit for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of each unit is limited to 100 hours per year. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of the emissions unit beyond 100 hours per year. [40 CFR §63.6640(f)(2)(i)]
- v. The Permittee may operate each emissions unit for 50 hours per year in non-emergency situations. The 50 hours of operation in non-emergency situations are included in the 100 hours per calendar year for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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)(4)]
- vi. At all times, the Permittee must operate and maintain any affected sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by applicable standards have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may

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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 operate and maintain each unit according to the manufacturer's emission- related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the emissions unit in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall minimize each emissions unit's time spent at idle during start-up and minimize the emissions unit 's start-up time to a period needed for appropriate and safe loading of the emissions unit, not to exceed 30 minutes, after which time the emission standards applicable to all times other than start-up apply. [40 CFR §63.6625(h)]

b. Monitoring and Testing Requirements

- i. The Permittee shall inspect the air cleaner on each unit every 1,000 hours of operation or annually, whichever comes first. [40 CFR Part 63 Subpart ZZZZ, Table 2d]
- ii. The Permittee shall inspect all hoses and belts on each unit every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ, Table 2d]
- iii. The Permittee has the option of utilizing an oil analysis program in order to extend the oil change requirement. The oil analysis must be performed every 500 hours of operation or annually, whichever comes first. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within two days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within two days or before commencing operation, whichever is later. [40 CFR §63.6625(i)]
- iv. The Permittee shall comply with any monitoring or testing requirements of the General Provisions listed in 40 CFR Part 63 Subpart ZZZZ, Table 8 that apply. [40 CFR §63.6665]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for each emissions unit. The analysis program must be part of the maintenance plan for the emissions unit. [40 CFR §63.6625(i)]
- ii. The Permittee shall keep records of the maintenance conducted on each emissions unit in order to demonstrate that the unit was operated and maintained according to the maintenance plan. [40 CFR §63.6655(e)]
- iii. The Permittee shall keep records of the hours of operation of each emissions unit that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the emissions units are used for demand response operation, the Permittee shall keep records of the notification of the emergency situation, and the time the emissions unit was operated as part of demand response. [40 CFR §63.6655(f)]
- iv. The Permittee shall keep records of the occurrence and duration of each malfunction of operation. [40 CFR §63.6655(a)(2)]
- v. The Permittee shall maintain a copy of each notification and report that is submitted to comply with

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40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]

- vi. The Permittee shall keep records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1). Each record shall be 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(a), (b), & (c)]
- vii. The Permittee shall comply with any record keeping requirements of the General Provisions listed in 40 CFR Part 63 Subpart ZZZZ, Table 8 that apply. [40 CFR §63.6665]

d. Reporting Requirements

- i. The Permittee shall report each instance in which the operating limitation in Table 2d of 40 CFR Part 63 Subpart ZZZZ was not met. These instances are deviations from the operating limitations in this subpart. These deviations must be reported according to the requirements in 40 CFR §63.6650. [40 CFR §63.6640(b)]
- ii. The Permittee shall report any failure to perform the engines' management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, footnote 2]
- iii. The Permittee shall comply with any reporting requirements of the General Provisions listed in 40 CFR Part 63 Subpart ZZZZ, Table 8 that apply. [40 CFR §63.6665]

C. CAIR NO_x OZONE SEASON TRADING

GEU-1 is a CAIR NO_x Ozone season unit and therefore subject to RCSA §22a-174-22c. Each unit shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application.

D. FEDERAL ACID RAIN PERMIT REQUIREMENTS

1. SO₂ Allowance Allocations and NO_x Requirements for Each Affected Unit

| | | 2023 | 2024 | 2025 | 2026 | 2027 |
|------|---|---|------|------|------|------|
| EU-1 | SO ₂ Allowances under Table 2, 3, or 4 of 40 CFR Part 73 | 0 | 0 | 0 | 0 | 0 |
| | NO _x Limit | Not an Affected Unit under 40 CFR Part 76 | | | | |
| | | 2023 | 2024 | 2025 | 2026 | 2027 |
| EU-2 | SO ₂ Allowances under Table 2, 3, or 4 of 40 CFR Part 73 | 0 | 0 | 0 | 0 | 0 |
| | NO _x Limit | Not an Affected Unit under 40 CFR Part 76 | | | | |

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| | | 2023 | 2024 | 2025 | 2026 | 2027 |
|------|---|---|------|------|------|------|
| EU-3 | SO ₂ Allowances under Table 2, 3, or 4 of 40 CFR Part 73 | 0 | 0 | 0 | 0 | 0 |
| | NO _x Limit | Not an Affected Unit under 40 CFR Part 76 | | | | |

2. Phase II Acid Rain Permit Application

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

E. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
3. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
4. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9. **Variations:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-

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12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B) .
15. **Sulfur Dioxide Emissions:** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
16. **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.
17. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
18. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e, as applicable
19. **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).
20. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
21. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
22. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

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.

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

Section V: State Enforceable Terms and Conditions

- 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.
- G.** The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

Section VI: Title V Requirements

simultaneously submitted by the Permittee to the Administrator.

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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.

Section VI: Title V Requirements

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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).

Section VI: Title V Requirements

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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

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

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

Y. CREDIBLE EVIDENCE

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