



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	189-0221-TV
Client/Sequence/Town/Premises Numbers	251/1/189/114
Date Issued	August 25, 2023
Expiration Date	August 25, 2028

Corporation:

Wallingford Energy, LLC

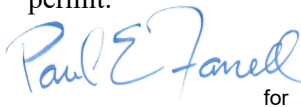
Premises Location:

115 John Street, Wallingford, CT 06492

Name of Responsible Official and Title:

Ben Freeman, Asset Manager

All the following attached pages, 2 through 48 are hereby incorporated by reference into this Title V permit.


for

Katherine S. Dykes
Commissioner

August 25, 2023

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>
%	Percent
°F	Degree Fahrenheit
AP-42	Compilation of Air Pollutant Emissions Factors
Btu	British thermal unit
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
EU	Emissions Unit
EPA	Environmental Protection Agency
ft ³	Cubic Feet
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
HCHO	Formaldehyde
H ₂ SO ₄	Sulfuric Acid
hr	Hour
kW	Kilowatt
lb	Pound
MMBtu	Million British Thermal Units
MMft ³	Million Cubic Feet
MRC	Maximum Rated Capacity
MW	Megawatt
NH ₃	Ammonia
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
PM	Particulate Matter
PM _{2.5}	Particulate Matter less than 2.5 microns
PM ₁₀	Particulate Matter less than 10 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
SOS	Standard Operating Scenario
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Power Generation Facility
Primary SIC: 4911

Facility Mailing Address: 115 John Street, Wallingford, CT 06492
Telephone Number: 203-269-1813

B. PREMISES DESCRIPTION

Wallingford Energy, LLC operates a nominally rated 350 megawatt (MW) simple cycle combustion turbine power plant in Wallingford, Connecticut. The facility consists of seven 50 MW General Electric LM6000 Simple Cycle Jet Turbines, one 33.475 MMBtu/hr Cleaver Brooks Boiler and one 560 kW Black Start Diesel emergency generator. The combustion turbines and boiler burn only natural gas.

Five of the Jet Turbines (GEU-1) are subject to the Standards of Performance for Stationary Gas Turbines (40 CFR Part 60 Subpart GG), since each of the turbines has a heat input at peak load greater than 10 MMBtu/hr. The two newest Jet Turbines (GEU-2) are subject to the Standards of Performance for Stationary Combustion Turbines (40 CFR Part 60 Subpart KKKK), and Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units (40 CFR Part 60 Subpart TTTT).

All seven Jet Turbines (NSR Permit Nos. 189-0194 through 189-0198, 189-0246, and 189-0247) are equipped with low nitrogen oxide (NO_x) burners, water injection, and selective catalytic reduction (SCR) systems for the control of NO_x emissions, and oxidation catalysts for the control of carbon monoxide (CO), volatile organic compounds (VOC), and formaldehyde (HCHO) emissions. These units are also CAIR NO_x ozone season units.

The Cleaver Brooks Boiler (EU-6) is subject to the Standards of Performance for Small-Industrial-Commercial Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc), since the unit has a maximum design heat input capacity of 33.475 MMBtu/hr, well within the 10-100 MMBtu/hr applicability range.

The Black Start Emergency Generator (EU-7) operates in accordance with RCSA Section 22a-174-3b and is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ).

According to 40 CFR Parts 72, 73, and 75, the power plant is designated as a Phase II Acid Rain Source.

Wallingford Energy, LLC exceeds the major source thresholds for CO, NO_x, and VOC.

Wallingford Energy, LLC is a Title V source located in a serious ozone-non-attainment area defined in RCSA Section 22a-174-1(105).

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		Emissions Unit Description	Control Unit Description	NSR Permit or Regulation Number
GEU-1	EU-1	GE LM6000 Simple Cycle Combustion Turbine No. 1 Installation Date: 10/03/00 MRC: 461.2 MMBtu/hr; 50 MW nominal	Selective Catalytic Reduction, with water injection. Oxidation Catalyst and Low NO _x Burners	NSR Permit No. 189-0194 RCSA §22a-174-22e RCSA §22a-174-22c (CAIR) Title IV Acid Rain 40 CFR Part 60 Subpart GG
	EU-2	GE LM6000 Simple Cycle Combustion Turbine No. 2 Installation Date: 10/03/00 MRC: 461.2 MMBtu/hr; 50 MW nominal		NSR Permit No. 189-0195 RCSA §22a-174-22e RCSA §22a-174-22c (CAIR) Title IV Acid Rain 40 CFR Part 60 Subpart GG
	EU-3	GE LM6000 Simple Cycle Combustion Turbine No. 3 Installation Date: 10/03/00 MRC: 461.2 MMBtu/hr; 50 MW nominal		NSR Permit No. 189-0196 RCSA §22a-174-22e RCSA §22a-174-22c (CAIR) Title IV Acid Rain 40 CFR Part 60 Subpart GG
	EU-4	GE LM6000 Combustion Turbine No. 4 Installation Date: 10/03/00 MRC: 461.2 MMBtu/hr; 50 MW nominal		NSR Permit No. 189-0197 RCSA §22a-174-22e RCSA §22a-174-22c (CAIR) Title IV Acid Rain 40 CFR Part 60 Subpart GG
	EU-5	GE LM6000 Combustion Turbine No. 5 Installation Date: 10/03/00 MRC: 461.2 MMBtu/hr; 50 MW nominal		NSR Permit No. 189-0198 RCSA §22a-174-22e RCSA §22a-174-22c (CAIR) Title IV Acid Rain 40 CFR Part 60 Subpart GG
EU-6		Cleaver Brooks Boiler Installation Date: 10/03/00 MRC: 33.475 MMBtu/hr	None	NSR Permit No. 189-0199 RCSA §22a-174-22e 40 CFR Part 60 Subpart Dc
EU-7		Black Start Generator Installation Date: 10/03/00	None	RCSA §22a-174-3b(e) RCSA §22a-174-22e

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit		Emissions Unit Description	Control Unit Description	NSR Permit or Regulation Number
		MRC: 5.31 MMBtu/hr		40 CFR Part 63 Subpart ZZZZ
GEU-2	EU-8	GE LM6000 Simple Cycle Combustion Turbine No. 6 Installation Date: 11/04/17 MRC: 473 MMBtu/hr; 50 MW nominal	Selective Catalytic Reduction, with water injection. Oxidation Catalyst and Low NOx Burners	NSR Permit No. 189-0246 RCSA §22a-174-22c (CAIR) RCSA §22a-174-22e Title IV Acid Rain 40 CFR Part 60 Subparts KKKK and TTTT
	EU-9	GE LM6000 Simple Cycle Combustion Turbine No. 7 Installation Date: 11/01/17 MRC: 473 MMBtu/hr; 50 MW nominal	Selective Catalytic Reduction, with water injection. Oxidation Catalyst and Low NOx Burners	NSR Permit No. 189-0247 RCSA §22a-174-22c (CAIR) RCSA §22a-174-22e Title IV Acid Rain 40 CFR Part 60 Subparts KKKK and TTTT

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
SOS	GEU-1	Five combustion turbines operating on natural gas and in accordance with their respective NSR permits and 40 CFR Part 60 Subpart GG
	EU-6	One natural gas-fired boiler operating in accordance with NSR Permit No. 189-0199 and 40 CFR Part 60 Subpart Dc
	EU-7	One diesel-fired emergency generator operating under RCSA §22a-174-3b(e) and in accordance with 40 CFR Part 63 Subpart ZZZZ
	GEU-2	Two combustion turbines operating on natural gas and in accordance with their respective NSR permits and 40 CFR Part 60 Subparts KKKK and TTTT

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. GEU-1 SIMPLE CYCLE COMBUSTION TURBINES [COMBUSTION TURBINE NO. 1 (EU-1) THROUGH COMBUSTION TURBINE NO. 5 (EU-5)]

(Permit Nos. 189-0194 through 189-0198)

1. Fuel Consumption

a. Limitation or Restriction

- i. Turbine No. 1 (EU-1) through No. 5 (EU-5) shall only burn Natural Gas as defined in 40 CFR §60.331(u). [P 189-0194 through P 189-0198]
- ii. The maximum fuel consumption over any consecutive 12-month period for each turbine shall not exceed 1,844.8 MMft³. [P 189-0194 through P 189-0198]

b. Monitoring Requirements

- i. The Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed to each turbine. [P 189-0194 through P 189-0198]
- ii. The Permittee shall demonstrate that the fuel used by each unit in GEU-1 meets the definition of natural gas in 40 CFR §60.331(u) and shall use one of the sources of information listed in 40 CFR §60.334(h)(3) to make the required demonstration. [40 CFR §60.334(h)(3)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for each unit in GEU-1. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 189-0194 through P 189-0198]
- ii. The Permittee shall keep records of all applicable monitoring conducted in accordance with 40 CFR §60.334(h), demonstrating that the fuel combusted meets the definition of Natural Gas in 40 CFR §60.311(u). [40 CFR §60.334(h); P 189-0194 through P 189-0198, RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

2. Operating Requirements and Allowable Emission Limits for NO_x, CO, NH₃

a. Limitation or Restriction

- i. Each unit in GEU-1 shall be equipped with a low NO_x burner, which reduces the inlet NO_x concentration to 25 ppmvd at 15% O₂. [P 189-0194 through P 189-0198]
- ii. The Permittee shall use Water Injection in each unit in GEU-1 at a rate sufficient to maintain compliance with the applicable NO_x emission limits listed in this Title V permit. [P 189-0194 through P 189-0198]
- iii. Each unit in GEU-1 shall be equipped with a Selective Catalytic Reduction system (SCR) which has a minimum design removal efficiency for NO_x of 90%. [P 189-0194 through P 189-0198]
- iv. The NO_x emissions for each unit in GEU-1 shall not exceed the following limits:
[P 189-0194 through P 189-0198]
 - (A) 2.5 ppmvd @ 15% O₂
 - (B) 4.30 lb/hr
 - (C) 8.6 tpy
 - (D) The combined total NO_x emissions per consecutive 12 month period for GEU-1, the Cleaver Brooks Boiler (EU-6), and the Black Start Generator (EU-7) shall not exceed 48.2 tpy. [P 189-0194 through P 189-0198]
- v. The CO emissions for each unit in GEU-1 shall not exceed:
[P 189-0194 through P 189-0198]
 - (A) 2.1 ppmvd @ 15% O₂ at a temperature of 90°F (100% load)
 - (B) 7.2 ppmvd @ 15% O₂ at a temperature of 59°F (100% load)
 - (C) 16.3 ppmvd @ 15% O₂ at a temperature of 10°F (100% load)
 - (D) 16.80 lb/hr
 - (E) 33.6 tpy
 - (F) The combined total CO emissions per consecutive 12 month period for GEU-1, the Cleaver Brooks Boiler (EU-6), and the Black Start Generator (EU-7) shall not exceed 169.7 tpy. [P 189-0194 through P 189-0198]
- vi. The NH₃ emissions for each unit in GEU-1 shall not exceed:
[P 189-0194 through P 189-0198]
 - (A) 6.0 ppmvd @ 15% O₂
 - (B) 3.73 lb/hr

Section III: Applicable Requirements and Compliance Demonstration

vii. RCSA §22a-174-22e (Phase 1 Limits)

Prior to June 1, 2023 (Phase 1), the Permittee shall not cause or allow emissions of NO_x for the units in GEU-1 to exceed the following:

Note: Pursuant to RCSA §22a-174-22e(a)(1)(A), the emission units in GEU-1 are considered “affected units” because they have nameplate capacity greater than 15 MW

(A) 55 ppmvd corrected to 15% oxygen based on a daily block average.
[RCSA §22a-174-22e(d)(4)(A); RCSA §22a-174-22e(d)(16)]

(B) 50 ppmvd corrected to 15% oxygen or 0.18 lb/MMBtu for each affected unit during the ozone season, where the averaging period for the ozone season limit is May 1 through September 30:
[RCSA §22a-174-22e(d)(4)(B); RCSA §22a-174-22e(d)(16)]

(C) 0.15 lb/MMBtu for each affected unit during the non-ozone season, where the averaging period for the non-ozone season limit is October 1 through April 30:
[RCSA §22a-174-22e(d)(4)(B)]

viii. RCSA §22a-174-22e (Phase 2 Limits)

On or after June 1, 2023 (Phase 2), the Permittee shall not cause or allow emissions of NO_x for the units in GEU-1 to exceed the following:

(A) 40 ppmvd corrected to 15% oxygen based on a daily block average.
[RCSA §22a-174-22e(d)(4)(C); RCSA §22a-174-22e(d)(16)]

b. Monitoring Requirements

- i. The permit shall operate and maintain the equipment in GEU-1 in accordance with the manufacturer’s specifications and written recommendations. [P 189-0194 through P 189-0198]
- ii. The Permittee shall operate and maintain the equipment in GEU-1, any air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. [P 189-0194 through P 189-0198]
- iii. The Permittee shall properly operate the control equipment at all times that a unit in GEU-1 is in operation and emitting air pollutants. [P 189-0194 through P 189-0198]
- iv. The Permittee shall perform inspections of the SCR and oxidation catalyst systems in GEU-1 and replace them as recommended by the manufacturer. [P 189-0194 through P 189-0198]
- v. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the effected turbine in GEU-1. [P 189-0194 through P 189-0198]
- vi. The Permittee may demonstrate compliance with the emission limits listed in Section III.A.2.a of this Title V permit by calculating emission rates for each unit in GEU-1 using emission factors from CEM Data (in units of ppmvd @ 15% O₂) converted to lb/hr.

Section III: Applicable Requirements and Compliance Demonstration

[P 189-0194 through P 189-0198]

- vii. The Permittee shall conduct the performance tests required in 40 CFR §60.8, as applicable.
[40 CFR §60.335(a)]
- viii. The Permittee shall comply with the CEM requirements set forth in RCSA §22a-174-4a, RCSA §22a-174-22e, 40 CFR Part 60 Subpart GG and 40 CFR Parts 72-78, as applicable.
[P 189-0194 through P 189-0198]
- ix. The Permittee shall continuously monitor the SCR aqueous ammonia injection rate (lb/hr). The Permittee shall maintain this parameter within the ranges recommended by the manufacturer to achieve compliance with the emission limits in this Title V permit.
[P 189-0194 through P 189-0198]
- x. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis: [P 189-0194 through P 189-0198]
 - (A) One hour block for NO_x
 - (B) One hour block for CO
 - (C) Three hour block for NH₃
 - (D) One hour block for O₂
- xi. CO emissions shall be reviewed for consistency and conformity with design values, including but not limited to those listed in Sections III.A.2.a.v (A) – (F) of this Title V permit.
[P 189-0194 through P 189-0198]
- xii. The CEMS shall be certified, installed, calibrated, operated and tested in accordance with the applicable state and federal requirements, including but not limited to those specified in 40 CFR Part 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time, and those listed in 40 CFR §60.334(b) for the NO_x CEMS. [40 CFR Part 60 Subpart A and 40 CFR §60.334(b)]
- xiii. Continuous emissions monitoring shall be required during all periods of operation, including periods of startup, shutdown, malfunctions or emergency conditions.
[P 189-0194 through P 189-0198]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month NO_x and CO emissions in units of tons for each unit in GEU-1. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P 189-0194 through P 189-0198]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month combined total NO_x, and CO emissions in units of tons for GEU-1, Cleaver Brooks Boiler (EU-6) and Black Start Generator (EU-7). The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include

Section III: Applicable Requirements and Compliance Demonstration

a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 189-0194 through P 189-0198]

- iii. The Permittee shall keep records of excess emissions and monitor downtime, in accordance with 40 CFR §60.7(c) and 40 CFR §60.334(j). Additionally, records of exceedances of any emission limitation or operating parameter shall include [P 189-0194 through P 189-0198]:
 - (A) The date and time of the exceedance;
 - (B) A detailed description of the exceedance; and
 - (C) The duration of the exceedance.
- iv. The Permittee shall continuously record the hourly ammonia injection rate (lb/hr). [P 189-0194 through P 189-0198; RCSA §22a-174-33(o)(2)]
- v. The Permittee shall keep records of each delivery of aqueous ammonia. The records shall include: [P 189-0194 through P 189-0198]
 - (A) The date of delivery;
 - (B) The name of the supplier;
 - (C) The quantity of aqueous ammonia delivered; and
 - (D) The percentage of ammonia in solution, by weight.
- vi. The Permittee shall keep records of manufacturer's specifications and written recommendations for the operation, inspection and maintenance of the permitted equipment. [P 189-0194 through P 189-0198]
- vii. The Permittee shall keep records of the inspection and maintenance of each unit in GEU-1, the SCR, and the oxidation catalysts. These records shall include, but not be limited to: [P 189-0194 through P 189-0198]
 - (A) The name of the person conducting the inspection;
 - (B) The date;
 - (C) The results or actions; and
 - (D) The date the catalyst is replaced.
- viii. 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 systems or devices; and all other information required by this Title V permit recorded in a permanent form suitable for inspection. [40 CFR §60.7(f)]
- ix. The Permittee shall maintain reports of all monitoring and test data in accordance with RCSA §22a-174-4a(d). [RCSA §22a-174-4a(h)]

Section III: Applicable Requirements and Compliance Demonstration

- x. The Permittee shall comply with all applicable record keeping requirements set forth in RCSA §22a-174-22e(j) and 40 CFR Part 60 Subpart GG.
[RCSA §22a-174-22e(j); P 189-0194 through P 189-0198]

d. Reporting Requirements

- i. Prior to replacing any CEMS, the Permittee shall submit, at least 60 days prior to commencement of CEM performance testing, the CEM Monitoring Plan and the CEM summary plan in accordance with the CEM Guidelines and RCSA §22a-174-4(c). [RCSA §22a-174-4(c)]
- ii. The Permittee shall notify the commissioner in writing of any exceedance of an emissions limitation or deviation of an operating parameter, and shall identify the cause or likely cause of such exceedance or deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [P 189-0194 through P 189-0198]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance or deviation commenced.
- iii. The Permittee shall notify the commissioner in writing of any malfunction of any unit in GEU-1, the air pollution control equipment or the continuous monitoring system. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following:
[P 189-0194 through P 189-0198]
 - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- iv. The Permittee shall submit reports of excess emissions and monitor downtime to the Administrator, in accordance with 40 CFR §60.7(c) and 40 CFR §60.334(i). Excess emissions and monitor downtime, as defined in 40 CFR §50.334(i)(1), shall be reported for all periods of unit operation, including startup, shutdown and malfunction. All reports required under 40 CFR §60.7(c) shall be postmarked by the 30th day following the end of each six month period.
[P 189-0194 through P 189-0198; 40 CFR §60.334(i)]
- v. The Permittee shall furnish the Administrator/commissioner all applicable written and/or electronic notification(s) as required by 40 CFR §60.7(a), RCSA §22a-174-4a, , RCSA §22a-174-19a, RCSA §22a-174-22e(k) and RCSA §22a-174-22c. [P 189-0194, P 189-0198]
- vi. The Permittee shall submit all applicable reports specified in RCSA §22a-174-22e(k).
[RCSA §22a-174-22e(k)]
- vii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

Section III: Applicable Requirements and Compliance Demonstration

3. Allowable Emission Limits for PM/PM₁₀/PM_{2.5}, SO₂, VOC, HCHO, H₂SO₄, and HAPs

a. Limitation or Restriction

- i. The PM/PM₁₀/PM_{2.5} emissions for each unit in GEU-1 shall not exceed:
[P 189-0194 through P 189-0198]
 - (A) 6.00 lb/hr
 - (B) 0.024 lb/MMBtu
 - (C) 12.0 tpy
- ii. The SO₂ emissions for each unit in GEU-1 shall not exceed:
[P 189-0194 through P 189-0198]
 - (A) 1.26 lb/hr
 - (B) 0.003 lb/MMBtu
 - (C) 2.5 tpy
- iii. The VOC emissions for each unit in GEU-1 shall not exceed:
[P 189-0194 through P 189-0198]
 - (A) 4.95 lb/hr
 - (B) 9.9 tpy
 - (C) The combined total VOC emissions per consecutive 12 month period for GEU-1, the Cleaver Brooks Boiler (EU-6), and the Black Start Generator (EU-7) shall not exceed 49.6 tpy. [P 189-0194 through P 189-0198]
- iv. The formaldehyde emissions for each unit in GEU-1 shall not exceed 0.29 lb/hr.
[P 189-0194 through P 189-0198]
- v. The H₂SO₄ emissions for each unit in GEU-1 shall not exceed 0.48 lb/hr.
[P 189-0194 through P 189-0198]

b. Monitoring Requirements

- i. The Permittee may demonstrate compliance with the emission limits listed in Section III.A.3.a of this Title V permit by calculating emission rates for each unit in GEU-1 using emission factors from the following sources. [NSR Permit Nos. 189-0194 through 189-0198]
 - (A) PM/PM₁₀/PM_{2.5}: Stack test results
 - (B) SO₂: Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition, Volume 1, Section 3.1, January 1995 (Sulfur Content = 0.8 grains/100 standard cubic feet)
 - (C) VOC: Correlation of VOC emissions to CO emissions, as determined by a diagnostic stack test

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and CO CEM Data

(D) Sulfuric Acid: Material Balance calculations which may assume that twenty-nine percent of the sulfur in the fuel is converted to Sulfuric Acid (H_2SO_4)

(E) All HAPs (except Ammonia and Sulfuric Acid): Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition, Volume 1, Section 3.1, April 2000 and Manufacturer's Data

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM, PM_{10} , $\text{PM}_{2.5}$, SO_2 , and VOC emissions in units of tons for each unit in GEU-1. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P 189-0194 through P 189-0198]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month combined total VOC emissions in units of tons for GEU-1, Cleaver Brooks Boiler (EU-6) and Black Start Generator (EU-7). The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P 189-0194 through P 189-0198]

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an emissions limitation or deviation of an operating parameter, and shall identify the cause or likely cause of such exceedance or deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:
[P 189-0194 through P 189-0198]

(A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and

(B) For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance or deviation commenced.
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

4. Opacity

a. Limitation or Restriction

- i. The equipment shall not exceed 10% opacity during any unit during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9.
[P 189-0194; through P 189-0198]

b. Monitoring and Testing Requirements

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

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[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

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. [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)(K)(ii)]

5. Startup and Shutdown Requirements

a. Limitation or Restriction

- i. In lieu of the lb/hr emission limits in Section III.A.2.a of this Title V permit for NO_x and CO, the Permittee shall not cause or allow any unit to exceed the emission limits stated herein at any time during startup and shutdown. [P 189-0194 through P 189-0198]

(A) The NO_x emissions for each unit in GEU-1 shall not exceed 40 lb/hr during start-up and 20 lb/hr during shutdown.

(B) The CO emissions for each unit in GEU-1 shall not exceed 32 lb/hr during startup and 54 lb/hr during shutdown.

- ii. Startup and shutdown emission limits are averages based on one-hour monitored time periods in which startup and shutdown occurred. [P 189-0194 through P 189-0198]

- iii. Start-up shall be defined as that period of time from initiation of combustion firing until the unit reaches steady state operation. Shut-down shall be defined as that period of time from the initial lowering of turbine output until the point at which the combustion process has stopped. [P 189-0194 through P 189-0198]

- iv. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints [P 189-0194 through P 189-0198]:

(A) Start the ammonia injection as soon as minimum catalyst temperature is reached;

(B) The oxidation catalyst shall not be bypassed during startup or shutdown;

(C) The duration of startup shall not exceed 60 minutes for a hot start;

(D) The duration of startup shall not exceed 60 minutes for a warm start;

(E) The duration of startup shall not exceed 180 minutes for a cold start;

(F) A warm start shall be defined as startup when the turbine has been down for more than 8 hours;

(G) A cold start shall be defined as startup when the turbine has been down for more than 48 hours;

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and

(H) The duration of shutdown shall not exceed 30 minutes.

- v. Emissions during startup and shutdown shall be counted towards the annual emissions limits in Section III.A.2.a of this Title V permit. [P 189-0194 through P 189-0198]

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

[P 189-0194 through P 189-0198; 40 CFR §60.7(b)]

(A) Type of event (startup, shutdown, or malfunction);

(B) Equipment affected;

(C) Date of event;

(D) Duration of event (minutes); and

(E) Total NO_x and CO emissions emitted (lbs) during the event.

d. Reporting Requirements

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

6. CAIR NO_x Ozone Season Trading Program

The units in GEU-1 are CAIR NO_x Ozone season units and therefore are subject to RCSA §22a-174-22c. These units shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application. [RCSA §22a-174-22c.]

B. EU-6 CLEAVER BROOKS BOILER (Permit No. 189-0199)

1. Fuel Consumption

a. Limitation or Restriction

- i. The Cleaver Brooks Boiler (EU-6) shall only burn Natural Gas. [P 189-0199]
- ii. The maximum fuel consumption over any consecutive 12 month period shall not exceed 13,892,125 ft³. [P 189-0199]

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b. Monitoring Requirements

The Permittee shall monitor monthly and consecutive 12 month period fuel consumption for this boiler.
[RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 189-0199]

d. Reporting Requirements

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

2. Allowable Emission Limits

a. Limitation or Restriction

- i. The Permittee shall meet the emission limits stated herein at all times: [NSR Permit No. 189-0199]

(A) TSP/PM₁₀

- (1) 0.3350 lb/hr
- (2) 0.0100 lb/MMBtu
- (3) 0.0695 tpy

(B) SO_x

- (1) 0.0335 lb/hr
- (2) 0.0010 lb/MMBtu
- (3) 6.95E-03 tpy

(C) NO_x

- (1) 1.1700 lb/hr
- (2) 0.0350 lb/MMBtu
- (3) 0.2430 tpy

(D) VOC

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(1) 0.5360 lb/hr

(2) 0.0160 lb/MMBtu

(3) 0.1110 tpy

(E) CO

(1) 1.2400 lb/hr

(2) 0.0370 lb/MMBtu

(3) 0.2570 tpy

- ii. Notwithstanding the annual emission limits for EU-6 listed in Section III.B.2.a.i of this Title V permit, the combined total emissions for the Combustion Turbines (GEU-1), EU-6, and the Black Start Generator (EU-7) shall not exceed the following limits: [NSR Permit No. 189-0199]

(A) TSP/PM₁₀ - 121.747 tpy

(B) SO_x: 13.255 tpy

(C) NO_x: 48.223 tpy

(D) VOC: 49.611 tpy

(E) CO: 169.697 tpy

- iii. RCSA §22a-174-22e (Phase 1 Limits)

Prior to June 1, 2023 (Phase 1), the Permittee shall not cause or allow emissions of NO_x for EU-6 to exceed the following:

Note: In accordance with RCSA §22a-174-22e(a)(B) EU-6 is not considered an “affected unit” because this ICI boiler has a maximum heat input capacity less than 250 MMBtu/hr.

(A) 0.20 lb/MMBtu as determined by NO_x emission testing pursuant to RCSA §22a-174-22e(l).
[RCSA §22a-174-22e(d)(3)(A)]

- iv. RCSA §22a-174-22e (Phase 2 Limits)

On or after June 1, 2023 (Phase 2), the Permittee shall not cause or allow emissions of NO_x for EU-6 to exceed the following:

(A) 0.05 lb/MMBtu as determined by NO_x emissions testing pursuant to RCSA §22a-174-22e(l).
[RCSA §22a-174-22e(d)(3)(C)]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct an inspection and tune-up of the Cleaver Brooks Boiler (EU-6) a minimum of once per calendar year beginning with year 2018. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under RCSA §22a-174-

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22e(i)(1). The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or if the manufacturer's recommendations are no longer available, according to best available practices. [RCSA §22a-174-22e(i)(1)]

- ii. The Permittee shall conduct an initial emissions test for NO_x on or before May 31, 2023. Such test shall be conducted in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of RCSA §22a-174-22e shall be determined as specified in RCSA 22a-174-22e(l)(6) through RCSA §22a-174-22e(l)(8). [RCSA §22a-174-22e(l); RCSA §22a-174-5]
- iii. The owner or operator of an existing emission unit subject to this section shall conduct the emission test following the initial emissions test on a date after May 31, 2023, and no later than June 1, 2025. Subsequently, emission tests shall be conducted within every 63 months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [RCSA §22a-174-22e(l)(5)]
- iv. The permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [P 189-0199]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records sufficient to determine compliance with the lb/hr and tpy emission limitations listed in Section III.B.2.a.i of this Title V permit. Annual emissions shall be calculated each calendar month by adding the current calendar month's emissions (for each pollutant) to those of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. These records shall include a sample calculation for each pollutant. [RCSA §22a-174-33(o)(2)]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month combined total emissions in units of tons for GEU-1, Cleaver Brooks Boiler (EU-6) and Black Start Generator (EU-7). The consecutive 12 month emissions shall be determined by adding the current month's emissions (for each pollutant) to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(o)(2)]
- iii. The Permittee shall keep records of each tune-up of the Cleaver Brooks Boiler (EU-6) conducted pursuant to RCSA §22a-174-22e(i)(1). The records should include the following:
[RCSA §22a-174-22e(j)(2)]
 - (A) The date on which the emission unit is tuned-up; the name, title and affiliation of the person performing the tune-up, and a description of work performed;
 - (B) The procedures used to inspect and perform adjustments;
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e(i)(1); and
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e(i)(1).
- iv. The Permittee shall keep all applicable records listed in RCSA §22a-174-22e(j).
[RCSA §22a-174-22e(j)]

d. Reporting Requirements

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- i. The Permittee shall submit all applicable reports specified in RCSA §22a-174-22e(k).
[RCSA §22a-174-22e(k)]

C. EU-7 BLACK START GENERATOR (RCSA §22a-174-3b(e))

1. Maximum Hours of Operation

a. Limitation or Restriction

- i. The Permittee shall not cause or allow operation of the emergency engine for maintenance checks and readiness testing to exceed 100 hours per calendar year: [40 CFR §63.6640(f)(2)]
- ii. The emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- iii. The Permittee shall not cause or allow EU-7 to operate except during the periods specified under RCSA §22a-174-22e(a)(13) as follows: [RCSA §22a-174-22e(a)(13) and RCSA §22a-174-3b(e)(2){ **STATE ONLY REQUIREMENT**}]
 - (A) Emergencies;
 - (B) Testing;
 - (C) Scheduled maintenance
 - (D) When the facility owner or operator interrupts power to the facility to perform construction maintenance repair of the power distribution system for the facility or portion of the facility, or
 - (E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility.
- iv. The Permittee shall operate the emergency engine for a maximum of 300 hours during any 12-month rolling aggregate. [**STATE ONLY REQUIREMENT**] [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall maintain records sufficient to determine compliance with the limits in Section III.C.1.a of this Title V permit. [RCSA §§22a-174-3b(e)(3) and (4)]
- ii. The Permittee shall document and keep records of the emergency engine's hours of operation for

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each month and each 12 month rolling aggregate that is recorded through the non-resettable hour meter. The Permittee shall also document how many hours are spent for emergency operation, including what classified the operation as emergency. [40 CFR §63.6655(f)]

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

d. Reporting Requirements

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

2. Maximum Sulfur Content in Fuel

a. Limitation or Restriction

Any nongaseous fuel consumed by the emergency engine shall not exceed the sulfur content of motor vehicle diesel fuel (where "motor vehicle diesel fuel" is defined in RCSA §22a-174-42), and the applicable sulfur content limits set forth in Table 19b-1 of RCSA §22a-174-19b. [RCSA §§22a-174-3b(e)(2)(D) **{STATE ONLY REQUIREMENT}** and 19b(d)(2)]

b. Monitoring Requirements

The Permittee shall ensure that the sulfur content in the fuel is in compliance with the limit in Section III.C.2.a of this Title V permit. **{STATE ONLY REQUIREMENT}** [RCSA §22a-174-3b(e)(2)(D)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient if the certification or contract identifies: [RCSA §§22a-174-19b(g)(3)(A)-(D)]
 - (A) The name of the fuel seller;
 - (B) The type of fuel purchased;
 - (C) The sulfur content of the fuel purchased; and
 - (D) The method used to determine the sulfur content of the fuel purchased.
- ii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

d. Reporting Requirements

- i. The Permittee shall report the sulfur content for the fuel burned in the diesel-fired emergency engine in the annual emission statement. [RCSA §22a-174-4a(b)(1)]
- ii. The Permittee shall keep records on the premises indicating continual compliance with all above

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conditions at all times and shall make them available upon request of the commissioner.
[RCSA §22a-174-3b(e)(3) **[STATE ONLY REQUIREMENT]**]

3. Nitrogen Oxides (NO_x)

a. Limitations and Restrictions

- i. The Permittee shall not operate emergency engine EU-7 for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups” or greater. If, subsequent to the initial forecast of “moderate to unhealthy for sensitive groups” or greater, the forecast is revised to “moderate” or lower, the Permittee is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of “moderate” or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of “moderate to unhealthy for sensitive groups” or greater shall not obligate the Permittee to refrain from operation of emergency engine EU-7 at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of emergency engine EU-7 from RCSA §22a-174-22e(d)(14) if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location.
[RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall keep the following records for EU-7:
 - (A) Records required by 40 CFR §63.6655, as applicable; [RCSA §22a-174-22e(j)(2)(A)]
 - (B) The date and work performed for repairs, replacement of parts and other maintenance;
[RCSA §22a-174-22e(j)(2)(B)]
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and
[RCSA §22a-174-22e(j)(2)(F)]
 - (D) Any other records or reports required by an order or permit issued by the commissioner
Pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]

d. Reporting Requirements

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

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4. Work Practices and Maintenance Requirements

a. Operating Requirements

- i. The Permittee shall change the oil and filter of the emergency engine every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis program shall meet the requirements of 40 CFR §63.6625(i). [40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(a)]
- ii. The Permittee shall inspect the air cleaner of the emergency engine every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(b)]
- iii. The Permittee shall inspect all the hoses and belts of the emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR Part 63 Subpart ZZZZ, Table 2d(4)(c)]
- iv. The Permittee shall minimize the emergency engine's time spent at idle during startup, and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- v. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practices and/or maintenance requirements listed in Sections III.C.4.a.i through iii of this Title V permit, or if performing the work practice and/or maintenance requirement on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice and/or maintenance requirement can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice and/or maintenance requirement should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. [40 CFR Part 63 Subpart ZZZZ, Table 2d Footnote 2]
- vi. The Permittee shall at all times operate and maintain the emergency engine, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.6605(b)]
- vii. The Permittee shall also operate and maintain the emergency engine and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6665]

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b. Monitoring and Testing Requirements

Record keeping specified in Section III.C.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.
[RCSA §22a-174033(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the maintenance conducted on the emergency engine in order to demonstrate that the emergency engine was operated and maintained according to its maintenance plans, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR §§63.6655(e)]
- ii. The Permittee shall keep records sufficient to determine continuous compliance with Section III C.4.a.vii of this Title V permit. [40 CFR §63.6655(d)]
- iii. If the Permittee opts to utilize the oil analysis program in order to extend the specified oil change requirement listed in Section III.C.4.a.i of this Title V permit, 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 the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR §63.6625(i)]
- iv. The Permittee shall keep all applicable records listed in RCSA §22a-174-22e(j).
[RCSA §22a-174-22e(j)]
- v. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR §63.6660]

d. Reporting Requirements

- i. The Permittee shall report any failure to perform any of the work practices and/or maintenance requirements listed in Section III.C.4.a of this Title V permit 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]
- ii. The Permittee shall report each instance it did not meet the applicable requirements in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR §63.6640(e)]
- iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

D. GEU-2 SIMPLE CYCLE COMBUSTION TURBINES [NO. 6 (EU-8) AND NO. 7 (EU-9)] (PERMIT Nos 189-0246 and 189-0247)

1. Fuel Consumption

a. Limitation or Restriction

- i. Turbine No. 6 and No. 7 shall only burn Natural Gas.
[P 189-0246; P 189-0247]

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- ii. The Maximum Allowable Heat Rate on a 12-month rolling basis shall not exceed 10,682 Btu/kW-hr (Gross). [P 189-0246; P 189-0247]
- iii. The maximum fuel consumption over any consecutive 12-month period for each unit in GEU-2 shall not exceed 1,856 MMft³. [P 189-0246; P 189-0247]

b. Monitoring Requirements

- i. The Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed for each turbine. [P. 189-0246; P 189-0247]
- ii. The Permittee shall demonstrate that the fuel used by each unit in GEU-2 meets the definition of natural gas in 40 CFR §60.4420. [40 CFR §60.4420]

c. Record Keeping Requirements

- i. The Permittee shall keep monthly and consecutive 12 month records of fuel consumption for each unit in GEU-2. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 189-0246; P 189-0247]
- ii. The Permittee shall keep all applicable records listed in 40 CFR Part 60.4365(a), demonstrating that the fuel combusted meets the specifications outlined in 40 CFR Part 60.4365(a). [P 189-0246; P 189-0247; 40 CFR §60.4365)]
- iii. The Permittee shall continuously record the gross electrical output of each unit in GEU-2. [P 189-0246; P 189-0247]
- iv. The Permittee shall make and keep records of the heat rate and gross electrical output on a 12 month rolling basis for each unit in GEU-2. [P 189-0246; P 189-0247]

d. Reporting Requirements

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

2. Operating Requirements and Allowable Emission Limits for NO_x, CO, NH₃

a. Limitation or Restriction

- i. The Permittee shall use water injection on each unit in GEU-2 at a rate sufficient to maintain compliance with the applicable NO_x emission limits listed in this Title V permit. [P 189-0246, P 189-0247]
- ii. Each unit in GEU-2 shall be equipped with a Selective Catalytic Reduction system (SCR) which has a minimum design removal efficiency for NO_x of 90%. [P 189-0246, P 189-0247]
- iii. Each unit in GEU-2 shall be equipped with an oxidation catalytic reduction system which controls

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CO sufficient to maintain compliance with the applicable emission limits in this Title V permit and has a Minimum Design CO Removal Efficiency of 91.6%. [P 189-0246, P 189-0247]

- iv. The NO_x emissions for each unit in GEU-2 shall not exceed the following limits:
[P 189-0246; P 189-0247]

(A) 2.5 ppmvd @ 15% O₂

(B) 4.29 lb/hr

(C) 8.6 tpy

- v. The CO emissions for each unit in GEU-2 shall not exceed:
[P 189-0246; P 189-0247]

(A) 5.0 ppmvd @ 15% O₂

(B) 5.72 lb/hr

(C) 11.4 tpy

- vi. The NH₃ emissions for each unit in GEU-2 shall not exceed:
[P 189-0246; P 189-0247]

(A) 5.0 ppmvd @ 15% O₂

(B) 3.17 lb/hr

- vii. RCSA §22a-174-22e (Phase 1 Limits)

Prior to June 1, 2023 (Phase 1), the Permittee shall not cause or allow emission of NO_x for the units in GEU-2 to exceed the following:

Note: Pursuant to RCSA §22a-174-22e(a)(1)(A), the emission units in GEU-2 are considered “affected units” because they have nameplate capacity greater than 15 MW.

(A) 55 ppmvd corrected to 15% oxygen based on a daily block average.

[RCSA §22a-174-22e(d)(4)(A); RCSA §22a-174-22e(d)(16)]

(B) 50 ppmvd corrected to 15% oxygen or 0.18 lb/MMBtu for each affected unit during the ozone season, where the averaging period for the ozone season limit is October 1 through April 30.

[RCSA §22a-174-22e(d)(4)(B); RCSA §22a-174-22e(d)(16)]

(C) 0.15 lb/MMBtu for each affected unit during the non-ozone season, where the averaging period for the non-ozone season limit is October 1 through April 30.

[RCSA §22a-174-22e(d)(4)(B); RCSA §22a-174-22e(d)(16)]

- viii. RCSA §22a-174-22e (Phase 2 Limits)

On or after June 1, 2023 (Phase 2), the Permittee shall not cause or allow emissions of

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NO_x for the units in GEU-2 to exceed the following:

- (A) 40 ppmvd corrected to 15% oxygen based on a daily block average.
[RCSA §22a-174- 22e(d)(4)(C); RCSA §22a-174-22e(d)(16)]

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the equipment in GEU-2 in accordance with the manufacturer's specifications and written recommendations. [P 189-0246 through P 189-0247]
- ii. The Permittee shall operate and maintain the equipment in GEU-2, any air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. [P 189-0246 through P 189-0247]
- iii. The Permittee shall properly operate the control equipment at all times that a unit in GEU-2 is in operation and emitting air pollutants. [P 189-0246, P 189-0247]
- iv. The Permittee shall perform inspections of the SCR and oxidation catalyst systems in GEU-2 and replace them as recommended by the manufacturer. [P 189-0246, P 189-0247]
- v. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the effected turbine in GEU-1. [P 189-0246, P 189-0247]
- vi. The Permittee may demonstrate compliance with the NO_x and CO emission limits listed in Sections III.D.2.a.iv and v of this Title V permit by calculating emission rates for each unit in GEU-2 using emission factors from CEM data (in units of ppmvd @ 15% O₂) converted to lb/hr. [P 189-0246; P 189-0247]
- vii. The Permittee may demonstrate compliance with the NH₃ emission limits listed in Section III.D.2.a.vi of this Title V permit by calculating emission rates for each unit in GEU-2 using emission factors from stack test results. [P 189-0246; P 189-0247]
- viii. The Permittee shall conduct the performance tests required in 40 CFR Part 60 Subparts A and KKKK, as applicable. [P 189-0246; P 189-0247]
- ix. The Permittee shall comply with the CEM requirements set forth in RCSA Section 22a-174-4a, RCSA Section 22a-174-22e, 40 CFR Part 60 Subpart KKKK and 40 CFR Parts 72-78, as applicable. [P 189-0246; P 189-0247]
- x. The Permittee shall continuously monitor the SCR aqueous ammonia injection rate (lb/hr) and ammonia slip (ppm). The Permittee shall maintain these parameters within the ranges recommended by the manufacturer to achieve compliance with the emission limits in this Title V permit. [P 189-0246; P 189-0247]
- xi. CEM shall be required for the following pollutant/operational parameters and enforced on the

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following basis: [P 189-0246; P 189-0247]

(A) One hour block for NO_x

(B) One hour block CO

(C) One hour block for O₂

- xii. The CEMS shall be certified, installed, calibrated, operated and tested in accordance with the applicable state and federal requirements, including but not limited to those specified in 40 CFR 60 Subpart A, Appendix B and Appendix F, as may be amended from time to time, and those listed in 40 CFR §60.4335(b) for the NO_x CEMS. [40 CFR Part 60 Subpart A and 40 CFR §60.4335(b)]
- xiii. Continuous emissions monitoring shall be required during all periods of operation, including periods of startup, shutdown, malfunctions or emergency conditions. [P 189-0246; P 189-0247]

c. Record Keeping Requirements

- i. The Permittee shall record the output of the NO_x, and CO CEMS.
[P 189-0246; P 189-0247]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month NO_x and CO emissions in units of tons for each unit in GEU-2. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P 189-0246; P 189-0247]
- iii. The Permittee shall keep records of excess emissions and monitor downtime, in accordance with 40 CFR §60.7(c) and 40 CFR §60.4380. Additionally, records of exceedances of any emission limitation or operating parameter shall include: [P 189-0246; P 189-0247]]
 - (A) The date and time of the exceedance;
 - (B) A detailed description of the exceedance; and
 - (C) The duration of the exceedance.
- iv. The Permittee shall keep records of each delivery of aqueous ammonia. The records shall include:
[P 189-0246; P 189-0247]
 - (A) The date of delivery;
 - (B) The name of the supplier;
 - (C) The quantity of aqueous ammonia delivered; and
 - (D) The percentage of ammonia in solution, by weight.
- v. The Permittee shall keep records of manufacturer's specifications and written recommendations for the operation, inspection, and maintenance of the permitted equipment.
[P 189-0246, P 189-0247]

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- vi. The Permittee shall keep records of the inspection and maintenance of each unit in GEU-2, the SCR and the oxidation catalysts. These records shall include, but not be limited to:
[P 189-0246, P 189-0247]
 - (A) The name of the person conducting the inspection;
 - (B) The date;
 - (C) The results or actions; and
 - (D) The date the catalyst is replaced.
- vii. The Permittee shall continuously record the SCR aqueous ammonia injection rate (lb/hr) and ammonia slip (ppm). [P 189-0246; P 189-0247]
- viii. The Permittee shall maintain reports of all monitoring and test data in accordance with RCSA §22a-174-4(d). [RCSA §22a-174-4a(b)]
- ix. The Permittee shall comply with all applicable record keeping requirements set forth in in RCSA §22a-174-22e and 40 CFR Part 60 Subpart KKKK.
[P 189-0246, P 189-0247; RCSA §22a-174-22e(j)]
- x. 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; and all other information required by this Title V permit recorded in a permanent form suitable for inspection.
[40 CFR §60.7(f)]

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an emissions limitation or deviation of an operating parameter, and shall identify the cause or likely cause of such exceedance or deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [P 189-0246; P 189-0247]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance or deviation commenced.
- ii. The Permittee shall submit reports of excess emissions and monitor downtime to the Administrator, in accordance with 40 CFR §60.7(c) and 40 CFR §60.4380. Excess emissions and monitor downtime, as defined in 40 CFR §60.4380(b), shall be reported for all periods of unit operation, including startup, shutdown and malfunction. All reports required under 40 CFR §60.7(c) shall be postmarked by the 30th day following the end of each six-month period. [40 CFR §§60.4375, 60.4380 and 60.4395; P 189-0246; P 189-0247]
- iii. The Permittee shall furnish the administrator/commissioner all applicable written and/or electronic notification(s) as required by 40 CFR §60.7(a) and RCSA §22a-174-4a. The quarterly reports specified in RCSA §22a-174-4a shall be submitted by the 30th day following the end of the calendar quarter in which the data were collected. [RCSA §22a-174-4a(h)]

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- iv. The Permittee shall notify the commissioner in writing of any malfunction of the stationary gas turbine, the air pollution control equipment or the continuous monitoring system. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P 189-0246; P 189-0247]
 - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- v. The Permittee shall furnish the commissioner all applicable notifications and reports as specified in RCSA Section 22a-174-4a, RCSA Section 22a-174-19a, RCSA section 22a-174-22e(k) and RCSA Section 22a-174-22c. [P 189-0246, P 189-0247]

3. Allowable Emission Limits for PM/PM₁₀/PM_{2.5}, SO₂, VOC, HCHO, H₂SO₄ and HAPs

a. Limitation or Restriction

- i. Each unit in GEU-2 shall be equipped with an oxidation catalytic reduction system which controls VOC and Formaldehyde sufficient to maintain compliance with the applicable emission limits in this Title V permit and has the following minimum design removal efficiencies for each of these pollutants: [P 189-0246, P 189-0247]
 - (A) Minimum Design VOC Removal Efficiency: 80%
 - (B) Minimum Design Formaldehyde (HCHO) Removal Efficiency: 50%
- ii. The PM/PM₁₀ emissions for each unit in GEU-2 shall not exceed: [P 189-0246; P 189-0247]
 - (A) 6.00 lb/hr
 - (B) 0.023 lb/MMBtu
 - (C) 12.0 tpy
- iii. The PM_{2.5} (Filterable + Condensable) emissions for each unit in GEU-2 shall not exceed: [P 189-0246; P 189-0247]
 - (A) 6.00 lb/hr
 - (B) 0.023 lb/MMBtu
 - (C) 12.0 tpy
- iv. The SO₂ emissions for each unit in GEU-2 shall not exceed: [P 186-0246; P 189-0247]
 - (A) 1.05 lb/hr

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- (B) 0.002 lb/MMBtu
- (C) 2.1 tpy
- v. The VOC emissions for each unit in GEU-2 shall not exceed:
[P 189-00246; P 189-0247]
 - (A) 1.7 ppmvd @ 15% O₂
 - (B) 0.95 lb/hr
 - (C) 1.9 tpy
- vi. The formaldehyde (HCHO) emissions for each unit in GEU-2 shall not exceed 0.17 lb/hr.
[P 189-00246; P 189-0247]
- vii. The H₂SO₄ emissions for each unit in GEU-2 shall not exceed 0.47 lb/hr.
[P 189-00246; P 189-0247]
- viii. This equipment shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29.
[P 189-0246; P 189-0247] [STATE ONLY REQUIREMENT]

b. Monitoring Requirements

- i. The Permittee may demonstrate compliance with the emission limits listed in Section D.3.a. of this Title V permit by calculating emission rates (for GEU-2) using emission factors from the following sources: [P 189-0246; P 189-0247]
 - (A) PM/PM₁₀/PM_{2.5}, and Formaldehyde: Stack test results
 - (B) SO₂: Manufacturer's Data (sulfur content = 0.8 grains/100 standard cubic feet)
 - (C) VOC: Correlation of VOC emissions to CO emissions, as determined by a diagnostic stack test and CO CEM data
 - (D) Sulfuric Acid; Material balance calculations, which may assume that 29 percent of the sulfur in the fuel is converted to Sulfuric Acid (H₂SO₄)
 - (E) All HAPs (except Formaldehyde and Sulfuric Acid): Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition, Volume I, Section 3.1 April 2000

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM, PM₁₀, PM_{2.5}, SO₂, and VOC emissions in units of tons for each unit in GEU-2. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P 189-0246; P 189-0247]

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d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an emissions limitation or deviation of an operating parameter, and shall identify the cause or likely cause of such exceedance or deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [P 189-0246; P 189-0247]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance or deviation commenced.
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

4. GHG

a. Limitation or Restriction

- i. The Permittee shall not cause or allow GHG emissions for each unit in GEU-2 in excess of: [P 189-0246; P 189-0247]
 - (A) 1,205 lb CO_{2e}/MWh of gross energy output on a 12-month rolling basis; and
 - (B) 111,577 tons CO_{2e} per 12 consecutive months.

b. Monitoring Requirements

- i. The Permittee shall continuously monitor and continuously record the CO₂ emissions and gross electrical output for each unit in GEU-2. CO₂ emissions shall be determined using the methodology listed in 40 CFR Part 75, Appendix G, Equation G-4. [P 189-0246; P 189-0247]
- ii. The Permittee may demonstrate compliance with the emission limits listed in Section III.D.4.a of this Title V permit for each unit in GEU-2 by Material Balance, Monitoring data as outlined in Section III.D.4.b.i of this Title V permit and 40 CFR Part 98, Tables A-1, C-2 and W-7. [P 189-0246; P 189-0247]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month GHG in CO_{2e} emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 189-0246 and P 189-0247]
- ii. The Permittee shall continuously record the CO₂ emissions from each unit in GEU-2. [P 189-0246; P 189-0247]
- iii. The Permittee shall make and keep records sufficient to demonstrate compliance with the Greenhouse Gas emissions limit listed in Section III.D.4 of this Title V permit. These records shall

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include but not be limited to: [P 189-0246; P 189-0247]

- (A) CO₂ emissions shall be determined using the methodology listed in 40 CFR Part 75, Appendix G, Equation G-4;
- (B) Methane (CH₄) and Nitrous Oxide (N₂O) emissions calculated using 40 CFR Part 98, Tables A-1 and C-2 emission factors;
- (C) Estimated CH₄ fugitive emissions from the natural gas pipeline and associated components calculated using 40 CFR Part 98, Tables A-1 and W-7 emission factors; and
- (D) Estimated Sulfur hexafluoride (SF₆) fugitive emissions from the electrical circuit breakers determined using Material Balance calculations and 40 CFR Part 98, Table A-1 emission factors.

d. Reporting Requirements

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

5. Opacity

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the exceedance of 10% opacity from any unit during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P 189-0246; P 189-0247]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

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. [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)(K)(ii)]

6. Startup and Shutdown Requirements

a. Limitation or Restriction

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- i. In lieu of the lb/hr emission limits in Section III.D.2.a of this Title V permit for NO_x and CO, and in Section III.D.3.a.v of this Title V permit for VOC, the Permittee shall not cause or allow any unit to exceed the emission limits stated herein at any time during startup and shutdown.
[P 189-0246; P 189-0247]
 - (A) The NO_x emissions for each unit in GEU-2 shall not exceed 40 lb/hr during start-up and 20 lb/hr during shutdown.
 - (B) The CO emissions for each unit in GEU-2 shall not exceed 32 lb/hr during startup and 54 lb/hr during shutdown.
 - (C) The VOC emissions for each unit in GEU-2 shall not exceed 0.95 lb/hr during startup and 0.95 lb/hr during shutdown.
- ii. Startup and shutdown emission limits are averages based on one-hour monitored time periods in which startup and shutdown occurred. [P 189-0246; P 189-0247]
- iii. Start-up shall be defined as that period of time from initiation of combustion firing until the unit reaches steady state operation. Shut-down shall be defined as that period of time from the initial lowering of turbine output until the point at which the combustion process has stopped.
[P 189-0246; P 189-0247]
- iv. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints [P 189-0246; P 189-0247]:
 - (A) Start the ammonia injection as soon as minimum catalyst temperature is reached;
 - (B) The oxidation catalyst shall not be bypassed during startup or shutdown;
 - (C) The duration of startup shall not exceed 60 minutes for a hot start;
 - (D) The duration of startup shall not exceed 60 minutes for a warm start;
 - (E) The duration of startup shall not exceed 180 minutes for a cold start;
 - (F) A warm start shall be defined as startup when the turbine has been down for more than 8 hours;
 - (G) A cold start shall be defined as startup when the turbine has been down for more than 48 hours;
and
 - (H) The duration of shutdown shall not exceed 30 minutes.
- v. Emissions during startup and shutdown shall be counted towards the annual emissions limits in Sections III.D.2.a and III.D.3.a.iv of this Title V permit. [P 189-0246; P 189-0247]

b. Monitoring Requirements

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

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c. Record Keeping Requirements

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of any unit in GEU-2; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. Such records shall contain the following information.

[P 189-0246; P 189-0247; 40 CFR §60.7(b)]

(A) Type of event (startup, shutdown, or malfunction);

(B) Equipment affected;

(C) Date of event;

(D) Duration of event (minutes); and

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

d. Reporting Requirements

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

7. CAIR NO_x Ozone Season Trading

The units in GEU-2 are CAIR NO_x Ozone season units and therefore are subject to RCSA §22a-174-22c. These units shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application. [RCSA §22a-174-22c]

E. FEDERAL ACID RAIN PERMIT REQUIREMENTS

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

a. GEU-1 (Combustion Turbines Nos. 1-5; EU-1 - EU-5)

		2022	2023	2024	2025	2026
GEU-1 (CT01- CT05)	SO ₂ Allowances under Tables 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				

b. GEU-2 (Combustion Turbines Nos, 6 and 7; EU-8 and EU-9)

		2022	2023	2024	2025	2026
GEU-2 (CT06-	SO ₂ Allowances under	0	0	0		

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CT07)	Tables 2, 3, or 4 of 40 CFR Part 73				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.

F. PREMISES-WIDE GENERAL REQUIREMENTS

- Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4a(b)(1).
- 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
- Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- 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.
- Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
- Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
- Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
- Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
- Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
- No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
- Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
- Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as

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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 §16-21a(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 and §22a-174-22f.
- 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: Compliance Clerk.

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

Section VI: Title V Requirements

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

Section VI: Title V Requirements

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

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

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

Y. CREDIBLE EVIDENCE

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

Print for Compliance Certification or Enforcement

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

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

Print Enforcement Checklist

Print Compliance Certification