

**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	144-0032-TV
Client/Sequence/Town/Premises Numbers	8483/003/144/0018
Date Issued	
Expiration Date	

Corporation:

Algonquin Gas Transmission, LLC

Premises Location:

40 Woodruff Hill Road, Oxford, CT 06478

Name of Responsible Official and Title:

Roy G. Taylor, Director, Field Ops Northeast

All the following attached pages, 2 through 32, are hereby incorporated by reference into this Title V permit.

Katherine S. Dykes
Commissioner

Date

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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

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<i>Abbreviation/Acronym</i>	<i>Description</i>
°F	Degree Fahrenheit
bhp	Brake Horsepower-Hour
Btu	British Thermal Unit
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CH ₄	Methane
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Unit
gr	Grains
HAP	Hazardous Air Pollutant
hr	Hour
lb	Pound
min	Minute
LDAR	Leak Detection and Repair
MMBtu	Million Btu
MMscf	Million Standard Cubic Feet
N ₂ O	Nitrous Oxide
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O ₂	Oxygen
PAH	Polycyclic Aromatic Hydrocarbon
PIL	Product Information Letter
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
PM _{2.5}	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
S	Sulfur
SIC	Standard Industrial Classification Code
scf	Standard Cubic Feet
SO ₂	Sulfur Dioxide
VOC	Volatile Organic Compound

A. PREMISES INFORMATION

Nature of Business: Natural Gas Transmission
Primary SIC: 4922

Facility Contact and Mailing Address: Mr. Phillip Wiedenfeld
Algonquin Gas Transmission, LLC
P.O. Box 1642
Houston, TX 77251-1642

Telephone Number: (713) 627-6608

B. PREMISES DESCRIPTION

Algonquin Gas Transmission, LLC (Algonquin) owned by Enbridge, Inc., operates a natural gas compressor facility located at 40 Woodruff Hill Road in Oxford (Oxford Compressor Station).

The facility primarily consists of four permitted natural gas fired solar turbines that drive centrifugal compressors and one emergency engine to supply backup electrical power:

- Two Solar Mars 100-15000 turbine driven compressors
- One Solar Taurus 60-7802 turbine driven compressor
- One Solar Taurus 60-7800 turbine driven compressor
- One Waukesha VGF24GL – 585 bhp emergency generator

The turbines are all subject to 40 CFR Part 60 Subpart KKKK – New Source Performance Standard for Stationary Combustion Turbines.

The Waukesha emergency generator is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ). Provided the engine is only used for emergency purposes and is not otherwise reconstructed or modified, then there are no applicable requirements for the engine pursuant to 40 CFR §63.6590(c) and 40 CFR §60.4230(a)(4)(iv), because it was manufactured before 1/1/2009.

The ancillary equipment located at the facility does not require permitting and consists of various small combustion sources, liquid storage tanks and fugitive emissions from process venting. All requirements for these units are found in Section III.C Premises-Wide General Requirements:

With the installation of the latest combustion turbine (EU-4), which is considered a modification under the New Source Performance Standards (NSPS), the facility became subject to 40 CFR Part 60 Subpart OOOOa – NSPS for Natural Gas Production, Transmission, and Distribution. The applicable standards for this facility are primarily concerned with fugitive emissions and Leak Detection and Repair (LDAR).

Algonquin Gas Transmission, LLC exceeds the major source threshold for the following pollutants: NOx, VOC, and CO.

Algonquin Gas Transmission, LLC is an area source of Hazardous Air Pollutants (HAP).

Algonquin Gas Transmission, LLC is a Title V source located in a severe ozone non-attainment area defined in RCSA §22a-174-1(106).

Section II: Emissions Units Information

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A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
EU-1	Solar Mars 100-15000 Turbine Driven Compressor Construction Date: 10/2008	Dry Low NOx Combustor	Permit No. 144-0019 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK
EU-2	Solar Taurus 60-7800 Turbine Driven Compressor Construction Date: 10/2008	Dry Low NOx Combustor	Permit No. 144-0021 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK
EU-3	Solar Mars 100-15000 Turbine Driven Compressor Construction Date: 10/2008	Dry Low NOx Combustor	Permit No. 144-0020 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK
EU-4	Solar Taurus 60-7802 Turbine Driven Compressor Construction Date: 06/2017	Dry Low NOx Combustor and Oxidation Catalyst	Permit No. 144-0029 RCSA §22a-174-22e 40 CFR Part 60 Subpart KKKK
EU-5	Waukesha VGF24GL – 585 bhp Natural Gas Emergency Generator Construction Date: 10/2008	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenarios notifying the commissioner, provided that such operations are explicitly provided for and described in Table II.B.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
GEU-1 (EU-1 through EU-4)	Compression of natural gas
EU-5	To provide electrical backup of operations at the facility as allowed by RCSA §22a-174-3b(e)

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSIONS UNIT 1 (GEU-1): Two Solar Mars 100-15000 Turbine/Natural Gas Compressors; One Taurus 60-7800 and One Taurus 60-7802 Turbine/Natural Gas Compressors; NSR Permit Nos. 144-0019, 144-0020, 144-0021, and 144-0029; RCSA §22a-174-22e, 40 CFR Part 60 Subpart KKKK

1. Allowable Fuel Use

a. Limitation or Restriction

i. Natural Gas [P144-0019, 144-0020, 144-0021, 144-0029]

(A) Maximum Fuel Consumption over any Consecutive 12 Month Period (MMscf):

(1) 1,090.892: (EU-1 and EU-3, each)

(2) 588.797: (EU-2 and EU-4, each)

(B) Maximum Sulfur Content (grains/100 scf): 5

b. Monitoring Requirements

The Permittee shall use a gas metering device to continuously monitor fuel feed to each unit in GEU-1. [P144-0019, 144-0020, 144-0021, 144-0029]

c. Record Keeping Requirements

i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption in units of standard cubic feet 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. [P144-0019, 144-0020, 144-0021, 144-0029]

ii. The Permittee shall make and keep records of a current valid purchase contract, tariff sheet, or transportation contract which demonstrates the maximum total sulfur content of the natural gas burned in GEU-1. [P144-0019, 144-0020, 144-0021, 144-0029]

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 Emissions

a. Limitation or Restriction

The Permittee shall not cause or allow this equipment to exceed the emission limits stated herein at any time.

Note: Limits are for each unit

i. Allowable Short Term Emission Limits at Steady State

Turbine Inlet Air Temperature above 0 °F [P144-0019, 144-0020, 144-0021, 144-0029]

(A) PM/PM₁₀/PM_{2.5} Emissions

(1) 0.92 lb/hr (EU-1 and EU-3)

(2) 0.48 lb/hr (EU-2 and EU-4)

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- (3) 0.0066 lb/MMBtu (EU-4)
- (B) SO₂ Emissions
 - (1) 1.96 lb/hr (EU-1 and EU-3)
 - (2) 1.03 lb/hr (EU-2 and EU-4)
 - (3) 0.060 lb/MMBtu [40 CFR §60.4330(a)(2)]
- (C) NO_x Emissions
 - (1) 7.56 lb/hr (EU-1 and EU-3)
 - (2) 3.97 lb/hr (EU-2)
 - (3) 2.38 lb/hr (EU-4)
 - (4) 15 ppmvd @ 15% O₂ (EU-1 through EU-3)
 - (5) 9.0 ppmvd @ 15% O₂ (EU-4)
 - (6) 0.032 lb/MMBtu (EU-4)
 - (7) 25 ppmvd @ 15% O₂
[40 CFR §60.4320(a), Table 1, New turbine firing natural gas, > 50 MMBtu/hr and ≤ 850 MMBtu/hr]
 - (8) 40 ppmvd [RCSA §22a-174-22e(d)(4)(C)]
- (D) CO Emissions
 - (1) 7.67 lb/hr (EU-1 and EU-3)
 - (2) 4.02 lb/hr (EU-2)
 - (3) 0.20 lb/hr (EU-4)
 - (4) 25 ppmvd @ 15% O₂ (EU-1 through EU-3)
 - (5) 1.25 ppmvd @ 15% O₂ (EU-4)
- (E) VOC Emissions
 - (1) 0.96 lb/hr (EU-1 and EU-3)
 - (2) 0.50 lb/hr (EU-2)
 - (3) 0.25 lb/hr (EU-4)
- (F) Demonstration of compliance with the emission limits in Section III.A.2.i of this Title V permit shall be met by calculating the emission rates using the most recent approved stack test results for that pollutant, or if unavailable, emission factors from the following sources:
 - (1) PM/PM₁₀/PM_{2.5} Emissions: AP-42, Section 3.1-2a (April 2000)
 - (2) NO_x, CO, and VOC: Vendor Guaranteed Emission Rate
 - (3) SO₂: 0.94 x S lb/MMBtu
Where S: percent sulfur in fuel – AP-42, Section 3.1, Table 3.1-2a (April 2000) using
Tariff (5 gr/100 scf)

ii. Allowable Short Term Emission Limits at Steady State

Turbine Inlet Air Temperatures Between 0 °F and -20 °F

Section III: Applicable Requirements and Compliance Demonstration

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[P144-0019, 144-0020, 144-0021, 144-0029]

(A) PM/PM₁₀/PM_{2.5} Emissions

- (1) 0.95 lb/hr (EU-1 and EU-3)
- (2) 0.49 lb/hr (EU-2 and EU-4)

(B) SO₂ Emissions

- (1) 2.02 lb/hr (EU-1 and EU-3)
- (2) 1.05 lb/hr (EU-2 and EU-4)

(C) NO_x Emissions

- (1) 21.8 lb/hr (EU-1 and EU-3)
- (2) 11.4 lb/hr (EU-2)
- (3) 11.36 lb/hr (EU-4)
- (4) 150 ppmvd @ 15% O₂

[40 CFR §60.4320(a), Table 1, turbines operating at temperatures less than 0 °F]

(D) CO Emissions

- (1) 31.6 lb/hr (EU-1 and EU-3)
- (2) 16.5 lb/hr (EU-2)
- (3) 0.82 lb/hr (EU-4)

(E) VOC Emissions

- (1) 1.98 lb/hr (EU-1 and EU-3)
- (2) 1.03 lb/hr (EU-2)
- (3) 0.52 lb/hr (EU-4)

(F) Demonstration of compliance with the emission limits in Section III.A.2.ii of this Title V permit shall be met by calculating the emission rates using the most recent approved stack test results for that pollutant, or if unavailable, emission factors from the following sources:

- (1) PM/PM₁₀/PM_{2.5}, SO₂, NO_x, CO, VOC : Emission factors were calculated using solar information and best engineering judgment.

iii. Allowable Short Term Emission Limits at Steady State

Turbine Inlet Air Temperatures Below -20 °F

[P144-0019, 144-0020, 144-0021, 144-0029]

(A) PM/PM₁₀/PM_{2.5} Emissions

- (1) 0.95 lb/hr (EU-1 and EU-3)
- (2) 0.49 lb/hr (EU-2 and EU-4)

(B) SO₂ Emissions

- (1) 2.02 (EU-1 and EU-3)
- (2) 1.05 (EU-2 and EU-4)

(C) NO_x Emissions

Section III: Applicable Requirements and Compliance Demonstration

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- (1) 62.3 lb/hr (EU-1 and EU-3)
 - (2) 32.5 lb/hr (EU-2 and EU-4)
 - (3) 150 ppmvd @ 15% O₂
[40 CFR §60.4320(a), Table 1, turbines operating at temperatures less than 0 °F]
- (D) CO Emissions
- (1) 47.4 lb/hr (EU-1 and EU-3)
 - (2) 24.7 lb/hr (EU-2)
 - (3) 1.24 lb/hr (EU-4)
- (E) VOC Emissions
- (1) 2.97 lb/hr (EU-1 and EU-3)
 - (2) 1.55 lb/hr (EU-2)
 - (3) 0.77 lb/hr (EU-4)
- (F) Demonstration of compliance with the emission limits in Section III.A.2.iii of this Title V permit shall be met by calculating the emission rates using the most recent approved stack test results for that pollutant, or if unavailable, emission factors from the following sources:
- (1) PM/PM₁₀/PM_{2.5}, SO₂, NO_x, CO, VOC: Emission factors were calculated using solar information and best engineering judgment.
- iv. Allowable Short Term Emissions During Transient Events and Low Load/Speed Operation
[P144-0019, 144-0020, 144-0021, 144-0029]
- (A) NO_x Emissions
- (1) 1.04 lb/min (EU-1 and EU-3)
 - (2) 0.54 lb/min (EU-2 and EU-4)
- (B) CO Emissions
- (1) 0.79 lb/min (EU-1 and EU-3)
 - (2) 0.41 lb/min (EU-2 and EU-4)
- (C) VOC Emissions
- (1) 0.05 lb/min (EU-1 and EU-3)
 - (2) 0.03 lb/min (EU-2 and EU-4)
- (D) Demonstration of compliance with the emission limits in Section III.A.2.iv of this Title V permit shall be met by calculating the emission rates using the most recent approved stack test results for that pollutant, or if unavailable, emission factors from the following sources:
- (1) NO_x, CO, and VOC: The transient event and low load/speed operation emission factors were calculated based on, not directly from, information provided by Solar, Product Information Letter 167 (PIL167) – Revision 6 (December 1, 2016) for full load operation at ambient temperature less than or equal to -20 °F, and best engineering judgment.
- v. Allowable Short Term Emissions During Startup and Shutdown Events (at all temperatures)
[P144-0019, 144-0020, 144-0021, 144-0029]
- (A) Startup Emissions (EU-1 and EU-3)

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- (1) NOx: 1.48 lb/event
 - (2) CO: 143.4 lb/event
 - (3) VOC: 5.18 lb/event
 - (B) Startup Emissions (EU-2 and EU-4)
 - (1) NOx: 0.80 lb/event
 - (2) CO: 77.2 lb/event
 - (3) VOC: 5.40 lb/event
 - (C) Shutdown Emissions (EU-1 and EU-3)
 - (1) NOx: 1.71 lb/event
 - (2) CO: 156.4 lb/event
 - (3) VOC: 5.11 lb/event
 - (D) Shutdown Emissions (EU-2)
 - (1) NOx: 0.93 lb/event
 - (2) CO: 84.5 lb/event
 - (3) VOC: 5.24 lb/event
 - (E) Shutdown Emissions (EU-4)
 - (1) NOx: 0.93 lb/event
 - (2) CO: 4.23 lb/event
 - (3) VOC: 2.62 lb/event
 - (F) Demonstration of compliance with the emission limits in Section III.A.2.v of this Title V permit shall be met by calculating the emission rates using the most recent approved stack test results for that pollutant, or if unavailable, emission factors from the following sources:
 - (1) NOx, CO, and VOC: The startup/shutdown emission factors were calculated based on, not directly from, information provided by Solar, Product Information Letter 170 (PIL170) – Revision 8 (February 21, 2018), and best engineering judgment.
- vi. Annual Emission Limits (Tons per 12 Consecutive Months, each unit)
[P144-0019, 144-0020, 144-0021, 144-0029]
- (A) PM/PM₁₀/PM_{2.5} Emissions
 - (1) 3.67 (EU-1 and EU-3)
 - (2) 1.98 (EU-2 and EU-4)
 - (B) SO₂ Emissions
 - (1) 7.79 (EU-1 and EU-3)
 - (2) 4.21 (EU-2 and EU-4)
 - (C) NOx Emissions
 - (1) 30.3 (EU-1 and EU-3)
 - (2) 16.3 (EU-2)

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- (3) 9.99 (EU-4)
- (D) CO Emissions
 - (1) 48.3 (EU-1 and EU-3)
 - (2) 32.5 (EU-2)
 - (3) 17.2 (EU-4)
- (E) VOC Emissions
 - (1) 5.32 (EU-1 and EU-3)
 - (2) 3.65 (EU-2)
 - (3) 2.63 (EU-4)
- (F) CO₂e Emissions
 - (1) 65,906 (EU-1 and EU-3)
 - (2) 35,570 (EU-2)
 - (3) 35,594 (EU-4)
 - (4) 199,998 (Combined premises emissions limit, including fugitive emissions sources)
- (G) Demonstration of compliance with the CO₂e emission limits in Section III.A.2.vi.(F) of this Title V permit shall be met by calculating the emission rates using the emission factors from the following sources:CO₂e:
 - (1) 40 CFR Part 98 Subpart C – Tables C-1 and C-2

Note: For all Inlet Air Temperatures
- vii. The Permittee shall operate and maintain GEU-1 and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, malfunctions, low load/speed operation, and transient events.
[P144-0019, 144-0020, 144-0021, 144-0029]
- viii. The Permittee shall operate and maintain GEU-1 and monitoring equipment in accordance with manufacturer’s specifications and written recommendations, with the exception of the oxidation catalyst, which will be operated and maintained in accordance with the Permittee’s Connecticut Specific Oxidation Catalyst Monitoring Plan, as amended from time to time.
[P144-0019, 144-0020, 144-0021, 144-0029]
- ix. The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the emission limits in Section III.A.2.a of this Title V permit, as allowed by state or federal statute, law or regulation. [P144-0019, 144-0020, 144-0021, 144-0029]
- x. Definitions [P144-0019, 144-0020, 144-0021, 144-0029]
 - (A) “Low Load/Speed Operation” shall be defined as periods of operation of the turbine with SoLoNOx disabled, excluding startup/shutdown, low temperature events, and malfunctions.
 - (B) “Low temperature event” shall be defined as operation of GEU-1 when the inlet air temperature is below 0 °F.
 - (C) “Malfunction” shall be defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment or a process to operate in accordance with the allowable limits in Section III.A.2.a of this Title V permit. Failures that were caused in part by poor maintenance or careless operation are not malfunctions.

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- (D) “Shutdown event” shall be defined as the initial lowering of turbine fuel combustion rate beginning once SoLoNO_x is inactive and ending at a point which the fuel combustion process has stopped.
- (E) “Startup event” shall be defined as the period of time from initiation of fuel combustion until SoLoNO_x is enabled and active.
- (F) “Steady-state” operation shall be defined as operation of the turbine when SoLoNO_x is enabled and active and ambient temperatures are above 0°F.
- (G) “Transient event” shall be defined as any infrequent or unplanned operation of the turbine outside of manufacturer warranty conditions with SoLoNO_x enabled but inactive, not including startup/shutdown, low load/speed operation, or low temperature events.

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct the following stack emission testing:
[P144-0019, 144-0020, 144-0021, 144-0029]

- (A) Annual/biennial stack testing in accordance with 40 CFR §60.4400. (GEU-1)
[RCSA §22a-174-22e(l)(1)(A)]

- (B) Recurrent Testing for NO_x and CO shall be performed within 63 months from the date of the previous stack test. (GEU-1)

- (C) Recurrent Testing for VOC, PAH, and Formaldehyde shall be performed within 63 months from the date of the previous stack test. (EU-4 only)

- ii. During stack emission testing for EU-1 and EU-3, the manufacturer’s performance data curve may be used to determine the Maximum Gross Heat Input, which may vary +/- 5%, at inlet air temperature between 0 and 100°F using Equation 1 below: [P144-0019, 144-0020, 144-0021, 144-0029]

Equation 1: $Y = -0.0009X^2 - 0.2141X + 135.7$

Where: Y = Maximum Gross Heat Input (MMBtu/hr)
X = Inlet Air Temperature (°F)

Note: In accordance with Section III.A.2.c.iv of this Title V permit, ambient temperature monitoring data recorded at the nearest observation station which collects National Weather Service data may be used for data substitution purposes should the inlet air monitoring system malfunction.

- iii. During stack emission testing for EU-2 and EU-4, the manufacturer’s performance data curve may be used to determine the Maximum Gross Heat Input, which may vary +/- 5%, at inlet air temperature between 0 and 100°F using Equation 1 below: [P144-0019, 144-0020, 144-0021, 144-0029]

Equation 1: $Y = -0.0006X^2 - 0.0791X + 71.5$

Where: Y = Maximum Gross Heat Input (MMBtu/hr)
X = Inlet Air Temperature (°F)

Note: In accordance with Section III.A.2.c.iv of this Title V permit ambient temperature monitoring data recorded at the nearest observation station which collects National Weather Service data may be used for data substitution purposes should the inlet air monitoring system malfunction.

- iv. The Permittee shall comply with the applicable monitoring requirements in accordance with RCSA §22a-174-22e(m). [RCSA §22a-174-22e(m)]

- v. The Permittee shall continuously monitor the turbine inlet air temperature.

[P144-0019, 144-0020, 144-0021, 144-0029]

Section III: Applicable Requirements and Compliance Demonstration

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c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM, PM₁₀, PM_{2.5}, SO₂, NO_x, CO 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. [P144-0010, 144-0020, 144-0021, 144-0029]
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month CO₂e emissions from the each unit in GEU-1 and the facility using the following methodologies: [P144-0010, 144-0020, 144-0021, 144-0029]
 - (A) CO₂ emissions from combustion sources shall be determined using the default emission factors found in 40 CFR Part 98 Subpart C – Table C-1.
 - (B) Methane (CH₄) and nitrous oxide (N₂O) from combustion sources shall be determined using the default emission factors found in 40 CFR Part 98 Subpart C, Table C-2.
 - (C) Estimated fugitive emissions of CH₄ from piping components shall be determined using the default emission factors found in 40 CFR Part 98 Subpart W, Tables W-3A and W-3B, as appropriate.
 - (D) Estimated fugitive emissions of CH₄ from gas releases shall be determined using the default emission factors found in 40 CFR Part 98 Subpart W, as appropriate.
- iii. The Permittee shall keep on site a record of the vendor guaranteed emission rates for NO_x, CO and VOC at inlet air temperature greater than 0 °F. [P144-0010, 144-0020, 144-0021, 144-0029]
- iv. The Permittee shall make and keep records of turbine inlet air temperature on a no less frequent basis than hourly while any unit in GEU-1 is operating during the months in which low ambient temperatures are within the realm of reasonability (October, November, December, January, February and March). The Permittee may utilize ambient temperature monitoring data recorded at the nearest observing station which collects National Weather Service data for data substitution purposes should the monitoring and recording system which is integral to the turbine malfunction. [P144-0010, 144-0020, 144-0021, 144-0029]
- v. The Permittee shall make and keep records, for each unit in GEU-1, of the date and hours of operation when the turbine inlet air temperature is equal to or below 0 °F and greater than -20 °F. Such records shall contain the following information: [P144-0010, 144-0020, 144-0021, 144-0029]
 - (A) Date and time of the event;
 - (B) Duration of the event, and
 - (C) Total emissions emitted (lb) during the event.These emissions shall be counted towards the annual emissions limits in Section III.A.2.a.vi of this Title V permit.
- vi. The Permittee shall make and keep records, for each unit in GEU-1, of the date and hours of operation when the turbine inlet air temperature is below -20 °F. Such records shall contain the following information: [P144-0010, 144-0020, 144-0021, 144-0029]
 - (A) Date and time of the event;
 - (B) Duration of the event, and

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(C) Total emissions emitted (lb) during the event.

These emissions shall be counted towards the annual emissions limits in Section III.A.2.a.vi of this Title V permit.

vii. The Permittee shall make and keep records, for each unit in GEU-1, of the occurrence and duration of any startup, shutdown, or malfunction event in the operation of the turbine; or any malfunction of the air pollution control equipment [40 CFR §60.7(b)]. Such records shall contain the following information: [P144-0010, 144-0020, 144-0021, 144-0029]

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

(B) equipment affected;

(C) date of event;

(D) duration of event (minutes); and

(E) total emissions emitted (lb) during the event.

These emissions shall be counted towards the annual emissions limits in Section III.A.2.a.vi of this Title V permit.

viii. The Permittee shall calculate and record the NO_x, CO and VOC emissions during low load/speed operation and transient events using the emission rates in Section III.A.2.a.iv of this Title V Permit. These emissions shall be counted towards the annual emissions limits in Section III.A.2.a.vi of this Title V permit. [P144-0010, 144-0020, 144-0021, 144-0029]

ix. The Permittee shall make and keep records, for each unit in GEU-1, of all exceedances of any operating parameter. Such records shall include: [P144-0010, 144-0020, 144-0021, 144-0029]

(A) The date and time of the exceedance;

(B) a detailed description of the exceedance;

(C) the duration of the exceedance; and

(D) reason and corrective action taken.

x. The Permittee shall make and keep all applicable records in accordance with RCSA §22a-174-22e(j)(2). [RCSA §22a-174-22e(j)(2)]

xi. The Permittee shall keep records of stack testing results. [P144-0010, 144-0020, 144-0021, 144-0029]

d. Reporting Requirements

i. The Permittee shall notify the commissioner in writing of any exceedance or deviation of an emissions limitation or operating parameter, and shall identify the cause or likely cause of such exceedances or deviations, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [P144-0019, 144-0020, 144-0021, 144-0029]

(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 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)]

iii. The Permittee shall submit all applicable reports in accordance with RCSA §22a-174-22e(k).

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[RCSA §22a-174-22e(k)]

3. Opacity

a. Limitation or Restriction

GEU-1 shall not exceed 10% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P144-0019, 144-0020, 144-0021, 144-0029]

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

d. Reporting Requirements

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

4. Pollution Control Equipment [SoLoNOx (GEU-1) and Oxidation Catalyst (EU-4 only)]

a. Limitation or Restriction

i. The Permittee shall not operate the turbine without the SoLoNOx control device, except as allowed during startup/shutdown, transient events, low load/speed operation, and low temperature events. [P144-0019, 144-0020, 144-0021, 144-0029]

ii. The Permittee shall not bypass the oxidation catalyst at any time. [P144-0029]

iii. The Permittee shall operate and maintain the air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, malfunctions, low load/speed operation, and transient events. [P144-0019, 144-0020, 144-0021, 144-0029]

iv. The Permittee shall operate and maintain the air pollution control equipment in accordance with manufacturer's specifications and written recommendations, with the exception of the oxidation catalyst, which will be operated and maintained in accordance with the Permittee's Connecticut Specific Oxidation Catalyst Monitoring Plan, as amended from time to time. [P144-0019, 144-0020, 144-0021, 144-0029]

b. Monitoring Requirements

i. The Permittee shall monitor the status of the SoLoNOx operation at all times. [P144-0019, 144-0020, 144-0021, 144-0029]

ii. The Permittee shall continuously monitor the oxidation catalyst inlet temperature (°F) and differential pressure. The Permittee shall demonstrate compliance with the operating ranges specified in the Permittee's Connecticut Specific Oxidation Catalyst Monitoring Plan based on a 4-hour rolling average during all permitted operating modes, except startup and shutdown. [P144-0029]

iii. The Permittee shall perform inspections of the equipment as recommended by the manufacturer. [P144-0019, 144-0020, 144-0021, 144-0029]

c. Record Keeping Requirements

i. The Permittee shall make and keep records, for each unit in GEU-1, indicating the instances when the

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SoLoNOx is disabled while the turbine is in operation, not including startup/shutdown, low load/speed operation, or low temperature events. Such records shall include:
[P144-0019, 144-0020, 144-0021, 144-0029]

- (A) The date and time the SoLoNOx is disabled;
 - (B) the duration of the SoLoNOx is disabled; and
 - (C) the reason and corrective action taken.
- ii. The Permittee shall record the oxidation catalyst inlet temperature (⁰F) at least once every 15 minutes
[P144-0029]
 - iii. The Permittee shall make and keep records of the inspection and maintenance of the oxidation catalyst. The records shall include: [P144-0029]
 - (A) the name of the person conducting the inspection or maintenance;
 - (B) the date;
 - (C) the results or actions; and
 - (D) the date the catalyst is replaced.
 - iv. The Permittee shall make and keep records of manufacturer's information for the turbine, oxidation catalyst (EU-4 only), and SoLoNOx. [P144-0019, 144-0020, 144-0021, 144-0029]

d. Reporting Requirements

- i. 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:
[P144-0019, 144-0020, 144-0021, 144-0029]
 - (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.

5. Operating Conditions

a. Limitation or Restriction

- i. The duration of a startup event shall not exceed 18 minutes.
[P144-0019, 144-0020, 144-0021, 144-0029]
- ii. The duration of a shutdown event shall not exceed 17 minutes.
[P144-0019, 144-0020, 144-0021, 144-0029]
- iii. The duration of low load/speed operation shall not exceed 30 minutes.
[P144-0019, 144-0020, 144-0021, 144-0029]
- iv. The total duration of all low load/speed operation shall not exceed 20 hours over any consecutive 12 month period. [P144-0019, 144-0020, 144-0021, 144-0029]

b. Monitoring Requirements

The Permittee shall monitor all startup/shutdown, low load/speed operation, malfunction, and transient events. [P144-0019, 144-0020, 144-0021, 144-0029]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records, for each unit in GEU-1, of all transient events and low

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load/speed operation. Such records shall include, but not be limited to the following.
[P144-0019, 144-0020, 144-0021, 144-0029]

- (A) date and time of the event;
- (B) duration of the event;
- (C) description of event; and
- (D) identification of transient event or low load/speed operation, if such event caused a shutdown of the turbine.

These emissions shall be counted towards the annual emissions limits in Section III.A.2.a.vi of this Title V permit.

- ii. The Permittee shall maintain records, for each unit in GEU-1, of the maintenance, repairs, and parts replacement of the turbine. The maintenance records shall include, at a minimum:
[P144-0019, 144-0020, 144-0021, 144-0029]
 - (A) A description of the maintenance activity;
 - (B) the date the maintenance was performed; and
 - (C) the cost of service.
- iii. The Permittee shall keep copies of all reports and notifications in accordance with this Title V permit.
[P144-0019, 144-0020, 144-0021, 144-0029]

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. 40 CFR Part 60 Subpart KKKK - New Source Performance Standard for Stationary Gas Turbines

a. Limitation or Restriction

- i. The Permittee must operate and maintain GEU-1, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including startup, shutdown, and malfunction. [40 CFR §60.4333]
- ii. The Permittee shall comply with the NO_x emissions limits found in Sections III.A.2.a.i.(C)(7), III.A.2.a.ii.(C)(4), and III.A.2.a.iii.(C)(3) of this Title V permit. [40 CFR §60.4320]
- iii. The Permittee shall comply with the SO₂ emissions limits found in Section III.A.2.a.i.(B)(3) of this Title V permit. [40 CFR §60.4330(a)]

b. Monitoring and Testing Requirements

NO_x Emissions:

The Permittee must perform annual performance tests in accordance with 40 CFR §60.4400 to demonstrate continuous compliance. If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for any unit in GEU-1, you may reduce the frequency of subsequent performance tests to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for any unit in GEU-1, you must resume annual performance test.
[40 CFR §60.4400]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of any applicable requirement as required by 40 CFR Part

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60 Subpart KKKK. [P144-0019, 144-0020, 144-0021, 144-0029]

- ii. The Permittee shall keep records of the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel specifying that the maximum total sulfur content is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR §60.4365(a)]
- iii. The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operating of any unit in GEU-1; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR §60.7(b)]

d. Reporting Requirements

The Permittee shall comply with the applicable reporting requirements in accordance with 40 CFR §§60.4375 and 60.4395.

7. 40 CFR Part 60 Subpart OOOOa - New Source Performance Standard for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced after September 18, 2015

a. Limitation or Restriction

- i. The Permittee must monitor all fugitive emission components, as defined in 40 CFR §60.5430a, accordance with the following: [40 CFR §60.5397a(a)]
 - (A) The Permittee must develop an emission monitoring plan that covers the collection of fugitive emissions components within each company-defined area in accordance with the following: [40 CFR §60.5397a(b)]
 - (1) Fugitive emissions monitoring plans must include the following:
 - [40 CFR §60.5397a(c)]
 - (a) The Permittee shall conduct surveys at least as frequently as required in 40 CFR §§60.5397a(f)(2) and (g). [40 CFR §60.5397a(c)(1)]
 - (b) The Permittee shall use Method 21 at 40 CFR Part 60, Appendix A-7, or an optical gas imaging. [40 CFR §60.5397a(c)(2)]
 - (c) Manufacturer and model number of fugitive emissions detection equipment to be used. [40 CFR §60.5397a(c)(3)]
 - (d) Procedures and timeframes for identifying and repairing fugitive emissions components from which fugitive emissions are detected, including timeframes for fugitive components that are unsafe to repair. Your repair schedule must meet the requirements of 40 CFR §60.5397a(f) at a minimum. [40 CFR §60.5397a(c)(4)]
 - (e) Procedures and timeframes for identifying fugitive component repairs. [40 CFR §60.5397a(c)(5)]
 - (f) Records that will be kept and the length of time records will be kept. [40 CFR §60.5397a(c)(6)]
 - (g) If you are using optical gas imaging, the plan must also include the elements specified in 40 CFR §§60.5397a(c)(7)(i) through (vii).
 - (h) If Method 21 at 40 CFR Part 60, Appendix A-7, is used the Permittee must also include the elements specified in 40 CFR §§60.5397a(c)(8)(i) through (ii).
 - (i) For the purposes of complying with the fugitive emissions monitoring program using Method 21 a fugitive emission is defined as an instrument reading of 500

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ppm or greater. [40 CFR §60.5397a(c)(8)]

- (2) Each fugitive emissions monitoring plan must include the following elements:
[40 CFR §60.5397a(d)]
 - (a) Sitemap [40 CFR §60.5397a(d)(1)]
 - (b) A defined observation path that ensures that all fugitive emissions components are within sight of the path. The observation path must account for interferences.
[40 CFR §60.5397a(d)(2)]
 - (c) If Method 21 is used, the plan must also include a list of fugitive emissions components to be monitored and method for determining location of fugitive emissions components to be monitored in the field (*e.g.* tagging, identification on a process and instrumentation diagram, etc.)
[40 CFR §60.5397a(d)(3)]
 - (d) The plan must also include the written plan developed for all of the fugitive emission components designated as difficult-to-monitor in accordance with 40 CFR §60.5397a(g)(3)(i) and the written plan for fugitive emission components designated as unsafe-to-monitor in accordance with 40 CFR §60.5397a(g)(3)(ii).
- ii. Each identified source of fugitive emissions shall be repaired or replaced in accordance with 40 CFR §§60.5397a(h)(1) and (2).
- iii. Each repaired or replaced fugitive emissions component must be resurveyed as soon as possible, but no later than 30 days after being repaired, to ensure that there are no fugitive emissions in accordance with 40 CFR §§60.5397a(h)(3)(i) through (iii).

b. Monitoring Requirements

Record keeping specified in Section III.A.7.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain the applicable records as specified in 40 CFR §60.7(f).
[40 CFR §60.5420a(c)]
- ii. The Permittee shall maintain records of each monitoring survey as specified in 40 CFR §60.5420a(c)(15).

d. Reporting Requirements

The Permittee shall submit the applicable reports as specified in 40 CFR §§60.5420a(b)(1), (b)(7) and (b)(11).

8. Hazardous Air Pollutants and Maximum Allowable Stack Concentration

a. Limitation or Restriction

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 Section 22a-174-29. [P144-0019, 144-0020, 144-0021, 144-0029] [State Only Requirement]

b. Monitoring Requirements

Record keeping specified in Section III.A.8.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

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c. *Record Keeping Requirements*

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.8.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. *Reporting Requirements*

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

B. EMISSIONS UNIT 5 (EU-5): Waukesha VGF24GL – 585 bhp Natural Gas Emergency Generator RCSA §§22a-174-3b(e) and 22a-174-22e

1. Operational Conditions

a. *Limitation or Restriction*

- i. The Permittee shall not cause or allow the emergency engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)] [State Only Requirement]
- ii. The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by EU-5. [RCSA §22a-174-3b(e)(2)(D)] [State Only Requirement]
- iii. The Permittee shall not exceed 15 ppm for non-gaseous fuel [RCSA §22a-174-19b(d)]
- iv. The Permittee shall properly maintain and operate EU-5. [RCSA §22a-174-3b(e)(1)] [State Only Requirement]
- v. The Permittee shall not operate EU-5 for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups” or greater. If, subsequent to the initial forecast of “moderate to unhealthy for sensitive groups” or greater, the forecast is revised to “moderate” or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. 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 EU-5 at the facility on the following day. [RCSA §22a-174-22e(d)(14)]

b. *Monitoring Requirements*

The Permittee shall monitor hours of operation of EU-5 using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

- i. The Permittee shall make and maintain records of the hours of operation of EU-5 for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)] [State Only Requirement]
- ii. The Permittee shall keep records to demonstrate compliance with Section III.B.1.a.ii of this Title V permit. Any of the following are sufficient to demonstrate the sulfur content of fuel used: [RCSA §22a-174-3b(h)] [State Only Requirement]
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that

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includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

- iii. The Permittee shall keep records of the sulfur content of the fuel combusted and the quantity purchased for combustion to demonstrate compliance with Section III.B.1.a.iii of this Title V permit. A written certification or a written contract with a fuel supplier is sufficient to satisfy this requirement if the certification or contract identifies: [RCSA §22a-174-19b(g)(3)]
 - (A) The name of the fuel seller;
 - (B) The type of fuel purchased;
 - (C) The sulfur content of the fuel purchased; and
 - (D) The method used to determine the sulfur content of the fuel purchased.
- iv. The Permittee shall make and keep the applicable records in accordance with RCSA §22a-174-22e(j). [RCSA §22a-174-22e(j)]

d. Reporting Requirements

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

C. PREMISES-WIDE GENERAL REQUIREMENTS

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

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11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B) .
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22f.
18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
19. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
20. **Asbestos:** Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
21. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

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TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	Applicable Regulations	Steps Required for Achieving Compliance (Milestones)	Date by which Each Step is to be Completed	Dates for Monitoring, Record Keeping, and Reporting
		No Steps are required for achieving compliance at this time		

Section V: State Enforceable Terms and Conditions

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

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required 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.

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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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.

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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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.

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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

Compliance Certification Table (2018)