

**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	105-0063-TV
Client/Sequence/Town/Premises Numbers	8856/0005/105/014
Date Issued	January 2, 2024
Expiration Date	January 2, 2029

Corporation:

Devon Power LLC


Premises Location:

734 Naugatuck Avenue, Milford, CT 06461

Name of Responsible Official and Title:

Ali Khurram, Senior Vice President

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

for 
Katherine S. Dykes
Commissioner

January 2, 2024
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>
Btu	British Thermal Units
CEM	Continuous Emission Monitor
CAIR	Clean Air Interstate Rule
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
EU	Emissions Unit
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
ft ³	Cubic Feet
gal	Gallons
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
hr	Hour
lb	Pound
m ³	Cubic meter
MMBtu	Million Btu
MW	Megawatt
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
Pb	Lead
PM ₁₀	Particulate Matter less than 10 microns
PM _{2.5}	Particulate Matter less than 2.5 microns
ppm	Parts per million
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
SCR	Selective Catalytic Reduction
scf	Standard Cubic Feet
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Dioxide
SOS	Standard Operating Scenario
SO _x	Sulfur Oxides
ULSD	Ultra-Low Sulfur Distillate
VOC	Volatile Organic Compound
yr	year

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electric Power Generation
Primary SIC: 4911
Other SIC: none

Facility Mailing Address: Devon Power, LLC, 734 Naugatuck Avenue, Milford, CT 06461
Telephone Number: (203) 854-2512

B. PREMISES DESCRIPTION

Devon Power LLC is located on Naugatuck Avenue in the Devon section of Milford, Connecticut. The station produces electricity for sale. The station consists of nine combustion turbines (Units 10-18) for the production of electricity. The total electrical output from the station is 380 megawatts (MW).

(EU-7)

Unit 10 is an oil fired 20 MW Pratt & Whitney FT4A-8 combustion turbine. It is located south of the main power plant building. The unit is subject to the requirements Consent Order No. 8377 Mod 1 for compliance with RCSA §22a-174-22e.

(GEU-4)

Units 11-14 are each 40 MW General Electric LM6000PA dual fuel fired combustion turbines. They are located north of the main power plant building each with its own stack. Water injection is employed for NOx control on all four units. These units are subject to 40 CFR Part 60 Subpart GG, Standards of Performance for Stationary Combustion Turbines.

Units 11-14 are Phase II Acid Rain Sources and their CEM system has been certified in accordance with 40 CFR Part 75.

(GEU-5)

Units 15-18 are each 50 MW General Electric LM6000PC dual fuel fired combustion turbines placed into service in June and July 2010. They are located north of the main power plant building. These units utilize water injection, selective catalytic reduction (SCR) and oxidation catalyst to control NOx, CO and VOC. These units are subject to 40 CFR Part 60 Subpart KKKK. The emission rates for SOx and NOx in the NSR permits are below the limitations outlined in Subpart KKKK.

Units 15-18 are Phase II Acid Rain sources and their CEM system is certified in accordance with 40 CFR Part 75.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Permit (P), Order (O) or Regulation Number
EU-7	Pratt & Whitney 20 MW Combustion Turbine Model FT4A-8LF, Unit 10 Constructed 04/1985	None	P105-0026 O No. 8377 Mod 1 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e
EU-8	General Electric 40 MW Combustion Turbine Model LM6000PA, Unit 11 Constructed May 1996	Water Injection	P105-0040 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart GG
EU-9	General Electric 40 MW Combustion Turbine Model LM6000PA, Unit 12 Constructed May 1996	Water Injection	P105-0041 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart GG
EU-10	General Electric 40 MW Combustion Turbine Model LM6000PA, Unit 13 Constructed May 1996	Water Injection	P105-0042 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart GG
EU-11	General Electric 40 MW Combustion Turbine Model LM6000PA, Unit 14 Constructed May 1996	Water Injection	P105-0043 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart GG

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Permit (P), Order (O) or Regulation Number
EU-12	General Electric 50 MW Combustion Turbine Model LM6000PC, Unit 15 Constructed May 2009	Water Injection, SCR, Oxidation Catalyst	P105-0098 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart KKKK
EU-13	General Electric 50 MW Combustion Turbine Model LM6000PC, Unit 16 Constructed May 2009	Water Injection, SCR, Oxidation Catalyst	P105-0099 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart KKKK
EU-14	General Electric 50 MW Combustion Turbine Model LM6000PC, Unit 17 Constructed May 2009	Water Injection, SCR, Oxidation Catalyst	P105-0100 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart KKKK
EU-15	General Electric 50 MW Combustion Turbine Model LM6000PC, Unit 18 Constructed May 2009	Water Injection, SCR, Oxidation Catalyst	P105-0101 RCSA §22a-174-19a RCSA §22a-174-22c RCSA §22a-174-22e 40 CFR Parts 72-78 40 CFR Part 60 Subpart KKKK
TABLE II.A.1: GROUPED EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order or Regulation Number
GEU-4	EU-8 through EU-11	See above	See above
GEU-5	EU-12 through EU-15	See above	See above

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
All Emissions Units	All emissions units associated with SOS shall be operated in accordance with applicable permit or registration terms and conditions and in accordance with best management practices while combusting liquid fuels or natural gas as allowed.

Section III: Applicable Requirements and Compliance Demonstration

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

A. EMISSIONS UNIT 7 (EU-7): Pratt & Whitney Model FT4A-8LF 20 MW (nominal) Gas Turbine; NSR Permit No. 105-0026; O No. 8377 Mod 1; RCSA §§22a-174-19a, 22c, 22e

1. Allowable Fuel Use

a. Limitation or Restriction

- i. Allowable Fuel Type: Ultra-Low Sulfur Distillate Oil (ULSD)
HHV = 0.135 MMBtu/gal [P105-0026]
- ii. Maximum Fuel Consumption over any Consecutive 12 Month Period (gal): 874,000
[O No. 8377 Mod 1; para.C.3]
- iii. Maximum Distillate Fuel Sulfur Content (% by weight): 0.0015
[P105-0026; RCSA §22a-174-19a(k)(1)]

b. Monitoring Requirements

- i. The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor fuel feed to the turbine. [P105-0026]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption. 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. [P105-0026; O 8377 Mod 1 para. C.10.d]
- ii. The Permittee shall by the close of each calendar day record the actual hours of operation and the actual quantity of fuel combusted in EU-7 during the preceding day and shall calculate and record NOx emissions for each emissions unit. The Permittee shall calculate NOx emissions using the emissions rate determined during the latest emissions test performed in accordance with RCSA Section 22a-174-22e(1). [O 8377 Mod 1 para. C.10.a]
- iii. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P105-0026]
- iv. The Permittee shall make and keep records pursuant to RCSA §22a-174-19a(i)(1). [RCSA §22a-174-19a(i)(1)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall certify in writing to the commissioner compliance with the sulfur content in Section III.A.1.a.iii of this permit. Such certification shall include actual quarterly SO₂ emissions in tons and either average quarterly fuel sulfur content or average quarterly emission rate, whichever is applicable. [RCSA §22a-174-19a(j)(1)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. NO_x Emissions

a. Limitation or Restriction

The Permittee shall not exceed the following emissions limitations:

- i. Less than or equal to 0.74 lb/MMBtu [P105-0026; O No. 8377, para. C.1, Table C.1]
- ii. Less than or equal to 53.7 tons/year [P105-0026]

b. Monitoring Requirements

- i. The Permittee shall conduct NO_x emission tests of the unit at least once every five years from the date of the previous stack test. [P105-0026; RCSA §22a-174-22e(l)]
- ii. For the purposes of stack testing the maximum fuel firing rate may be calculated using the following equation: [P105-0026]

Maximum Fuel Firing Rate (gal/hr):

$$X = -4.1099(Y) + 2122.4$$

Where,

X = fuel flow in gallons/hour

Y = Ambient Temperature (°F)

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

c. Record Keeping Requirements

- i. Demonstration of compliance with the emission limits in Section III.A.2.a of this Title V permit shall be met by using the emission factor from the most recent stack test data. [P105-0026]
- ii. The Permittee shall make and keep records of the monthly and consecutive 12 month NO_x 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. NO_x emissions shall be calculated using the latest approved stack test results. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [P105-0026]

Section III: Applicable Requirements and Compliance Demonstration

iii. The Permittee shall comply with the applicable record keeping requirements specified in RCSA §22a-174-22e(j). [P105-0026]

d. Reporting Requirements

i. The Permittee shall comply with the applicable reporting requirements specified in RCSA §22a-174-22e(k). [RCSA §22a-174-22e(k)]

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)]

3. Pollutant Emissions

a. Limitation or Restriction

i. The Permittee shall not exceed the following emissions: [P105-0026]

(A) PM₁₀/PM_{2.5}

(1) 1.2E-02 lb/MMBtu

(2) 0.86 tons/yr

(B) SO₂:

(1) 1.5E-03 lb/MMBtu

(2) 0.11 tons/yr

(C) VOC:

(1) 4.1E-04 lb/MMBtu

(2) 0.03 tons/yr

(D) CO:

(1) 0.113 lb/MMBtu

(2) 6.81 tons/yr

(E) Pb:

(1) 1.4E-05 lb/MMBtu

(2) 1.03E-3 tons/yr

Section III: Applicable Requirements and Compliance Demonstration

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

i. Demonstration of compliance with the emission limits in Section III.A.3.a of this Title V permit shall be met by using the following sources: [P105-0026]

(A) CO: Most recent stack test data

(B) SO_x: Calculated from 0.0015% S or less in fuel oil

(C) PM₁₀/PM_{2.5}, VOC, Pb: AP-42, Tables 3.1-1 and 3.1-2a, dated 04/00

ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀/PM_{2.5}, SO₂, VOC, CO, and Pb emissions in units of tons. The consecutive 12 month emission shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. NO_x emissions shall be calculated using the latest approved stack test results. 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. [P105-0026]

iii. The Permittee shall make and keep the applicable records pursuant to RCSA §22a-174-19a(i). [P105-0026]

d. Reporting Requirements

i. The Permittee shall submit reports of SO₂ emissions in accordance with RCSA §22a-174-19a(j). [P105-0026]

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. CAIR NO_x Ozone Season Trading Program

Emissions Unit 7 (EU-7) is a CAIR NO_x Ozone season unit and therefore subject to RCSA §22a-174-22c. The unit shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application.

5. Opacity

a. Limitation or Restriction

i. This equipment shall not exceed the following visible emission limits:

(A) 20% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9; or [P105-0026]

Section III: Applicable Requirements and Compliance Demonstration

- (B) 40% opacity as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one-minute block average. [RCSA §22a-174-18(b)(1)(B)]

b. Monitoring Requirements

Testing shall be conducted using EPA Method 9 (or equivalent EPA approved Method). Recurring tests shall be every five years and concurrent with the required NOx testing.
[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records of the dates and times of all opacity testing including the operating conditions at the time of the test.
[RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit reports of opacity testing within 30 days of such test.
[RCSA §22a-174-33(j)(1)(X)]

6. Turbine Operation and Maintenance

a. Limitation or Restriction

- i. The Permittee shall operate and maintain this equipment in accordance with good engineering practice and industry standards. [P105-0026]
- ii. The Permittee shall operate and maintain this equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [P105-0026]
- iii. The Permittee shall immediately institute a shutdown of the turbine in the event of a malfunction that cannot be corrected within three hours. [P105-0026]

b. Monitoring Requirements

Record keeping specified in Section III.A.6.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 Requirement

- i. The Permittee shall keep records, when the turbine or gas generator is changed for routine maintenance, to include the following: [P105-0026]
 - (A) The date the turbine or gas generator was changed;
 - (B) The reason for the change;
 - (C) Documentation that the replacement turbine or gas generator is the same make and model number; and

Section III: Applicable Requirements and Compliance Demonstration

(D) Documentation that the replacement turbine or gas generator does not result in an increase in emissions, the emission of any new air pollutants, or an increase in the electrical output of the turbine.

- ii. The Permittee shall maintain records sufficient to determine compliance with the limitations or restrictions in Section III.A.6.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

7. Hazardous Air Pollutants

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. [STATE ONLY REQUIREMENT] [P105-0026]

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

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.7.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. GROUPED EMISSIONS UNIT 4 (GEU-4): Four GE LM6000PA 40 MW Gas Turbines, NSR Permit Nos. 105-0040, 105-0041, 105-0042, and 105-0043; 40 CFR Part 60 Subpart GG; RCSA §§22a-174-19a, 22c, 22e

1. Allowable Fuel Usage and Operating Limitations

a. Limitation or Restriction

- i. Ultra Low Sulfur Distillate (ULSD) [P105-0040, 105-0041, 105-0042, 105-0043]

(A) Less than or equal to 2,426,520 gallons over any Consecutive Twelve Months for each unit in GEU-4

(B) Maximum Fuel Sulfur Content (% by weight): 0.0015

Section III: Applicable Requirements and Compliance Demonstration

(C) The Permittee shall not operate GEU-4 more than a than a combined 72 hours per day when combusting ULSD nor shall GEU-4 operate more than a combined 56 hours per day when combusting ULSD during the calendar month of July.

ii. Natural Gas [P105-0040, 105-0041, 105-0042, 105-0043]

(1) Less than or equal to 1,616.4 million ft³ over any Consecutive Twelve Months for each unit in GEU-4

b. Monitoring Requirements

- i. The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor fuel feed to each unit in GEU-4. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall monitor all hours of operation for GEU-4 while combusting ULSD. [P105-0040, 105-0041, 105-0042, 105-0043]

c. Record Keeping Requirements

- i. For each unit in GEU-4, the Permittee shall keep records of monthly and consecutive 12 month fuel consumption (for each fuel). The consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall maintain records of the sulfur content of fuel oil combusted. A written certification or a written contract with a fuel supplier is sufficient to satisfy this requirement if the certification or contract identifies: [P105-0040, 105-0041, 105-0042, 105-0043]
 - (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.
- iii. The Permittee shall keep hourly records of operation for GEU-4 while combusting ULSD. [P105-0040, 105-0041, 105-0042, 105-0043]
- iv. The Permittee shall keep records of all exceedances of any emissions limitation or operating parameter. Such records shall include: [P105-0040, 105-0041, 105-0042, 105-0043]
 - (A) the date and time of the exceedance;
 - (B) a detailed description of the exceedance; and
 - (C) the duration of the exceedance.

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

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

2. NO_x Emissions

a. Limitation or Restriction

i. The Permittee shall not exceed the following emissions limitations (All emission rate limits are per turbine, unless otherwise indicated.):

(A) ULSD

- (1) 70.0 lb/hr [P105-0040, 105-0041, 105-0042, 105-0043]
- (2) 0.175 lb/MMBtu [P105-0040, 105-0041, 105-0042, 105-0043]
- (3) 45 ppm @ 15% O₂ [P105-0040, 105-0041, 105-0042, 105-0043]
- (4) 50 ppmvd daily block average [RCSA §22a-174-22e(d)(4)(C)]
- (5) The Permittee may demonstrate compliance with the non-ozone season emissions limitation in RCSA §22a-174-22e(d)(4)(D) by utilizing water injection technology pursuant to RCSA §22a-174-22e(g)(4)(A). This compliance option expires no later than May 1, 2028, by which date the Permittee shall comply with the applicable emissions limitations of RCSA §22a-174-22e(d)(4)(D) for GEU-4 or cease operation.
[RCSA §22a-174-22e(g)(4)(A); RCSA §22a-174-22e(g)(11)]

(B) Natural Gas

- (1) 36.0 lb/hr [P105-0040, 105-0041, 105-0042, 105-0043]
- (2) 0.090 lb/MMBtu [P105-0040, 105-0041, 105-0042, 105-0043]
- (3) 25 ppm @ 15% O₂ [P105-0040, 105-0041, 105-0042, 105-0043]
- (4) 40 ppmvd daily block average [RCSA §22a-174-22e(d)(4)(C)]

(C) Annual Emissions shall not exceed: [P105-0040, 105-0041, 105-0042, 105-0043]

- (1) 145.5 tons/yr, each unit
- (2) 582 tons/yr combined emissions for GEU-4

ii. The Permittee shall comply with the standard for nitrogen oxides found in 40 CFR §60.332(a). [40 CFR §60.332(a)]

iii. Demonstration of compliance with NO_x emissions may be met with using the latest stack test data. [P105-0040, 105-0041, 105-0042, 105-0043]

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall operate the water injection system in a manner to achieve the NOx limits in Section III.B.a.i of this permit. [P105-0040, 105-0041, 105-0042, 105-0043]

b. Monitoring Requirements

- i. The Permittee shall continuously monitor the water-to-fuel ratio in accordance with 40 CFR Part 60 Subpart GG and 40 CFR Part 75. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. Recurrent stack testing for NOx shall be performed at the next required NOx RACT test pursuant to RCSA §22a-174-22e(l) and within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [P105-0040, 105-0041, 105-0042, 105-0043; RCSA §22a-174-22e(l)]
- iii. Stack testing shall be conducted while firing both natural and ULSD. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall comply with the applicable monitoring requirements in 40 CFR §60.334. [40 CFR §60.334]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month NOx emissions in units of tons for each unit in GEU-4. 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. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall calculate and record the monthly and combined consecutive 12 month NOx emissions for each unit in GEU-4. 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. [P105-0040, 105-0041, 105-0042, 105-0043]
- iii. The Permittee shall maintain records of all CEM data, stack test results and calculations demonstrating compliance with the limitation or restriction in Section III.B.2.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]
- iv. The Permittee shall make and keep records of the date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- v. The Permittee shall keep copies of all documents submitted to the commissioner pursuant to this section and any other records or reports required by an order or permit issued by the commissioner pursuant to this section. [RCSA §§22a-174-22e(j)(2)(F) & (G)]
- vi. The dates, times, and places of all emission testing required by RCSA §22a-174-22e(j)(2)(C), the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22e(j)(2)(C)]

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d. Reporting Requirements

- i. The Permittee shall submit a written report to the commissioner of any testing results within 60 days of the completion of such NO_x test. [RCSA §22a-174-22e(k)(1)]
- ii. The Permittee shall submit all applicable records pursuant to 40 CFR §60.7(c). [40 CFR §60.7(c)]

3. CAIR NO_x Ozone Season Trading Program

Grouped Emissions Unit 4 (GEU-4) is comprised of CAIR NO_x Ozone season units and therefore are subject to RCSA §22a-174-22c. The units shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application.

4. Sulfur Dioxide (SO₂) Emissions

a. Limitation or Restriction

- i. The Permittee shall not exceed the following emissions limitations (All emission rate limits are per turbine, unless otherwise indicated.): [P105-0040, 105-0041, 105-0042, 105-0043]

(A) ULSD

- (1) 0.6 lb/hour
- (2) 0.0015 lb/MMBtu

(B) Natural Gas

- (1) 0.24 lb/hour
- (2) 0.006 lb/MMBtu

(C) Annual Emissions: 0.75 tons/yr

- ii. The Permittee shall comply with the SO₂ emission limitation found in 40 CFR §60.333. [40 CFR §60.333]
- iii. Demonstration of compliance with SO₂ emissions may be met with AP-42, Fifth Edition, Volume I, Chapter 3, Table 3.1-2a (April 2000) [P105-0040, 105-0041, 105-0042, 105-0043]

b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur dioxide emissions in accordance with 40 CFR Part 75 Acid Rain CEM guidelines. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall comply with the monitoring requirements found in 40 CFR §60.334. [40 CFR §60.334]

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c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month SO₂ emissions in units of tons for each unit in GEU-4. 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 for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall maintain records sufficient to determine compliance with the applicable sulfur dioxide emission limitation in 40 CFR §60.333(b). [40 CFR §60.333(b)]

d. Reporting Requirements

- i. The Permittee shall submit reports of SO₂ emissions in accordance with the requirements of the Acid Rain permit in Section III.D of this permit.
- ii. The Permittee shall submit reports of SO₂ emissions in accordance with the requirements of RCSA §22a-174-19a(j). [RCSA §22a-174-19a(j)]
- iii. The Permittee shall submit all applicable records pursuant to 40 CFR §60.7(c). [40 CFR §60.7(c)]

5. PM₁₀, PM_{2.5}, VOC, and CO Emissions

a. Limitation or Restriction

- i. The Permittee shall not exceed the following emissions for each unit (All emission rate limits are per turbine, unless otherwise indicated.): [P105-0040, 105-0041, 105-0042, 105-0043]

(A) PM₁₀/PM_{2.5}:

(1) ULSD

- (a) 11.6 lb/hr
- (b) 0.029 lb/MMBtu

(2) Natural Gas

- (a) 5.20 lb/hr
- (b) 0.013 lb/MMBtu

(3) Annual Emissions: 21.0 tons/yr

(B) VOC

(1) ULSD

- (a) 1.52 lb/hr
- (b) 0.004 lb/MMBtu

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(2) Natural Gas

(a) 4.00 lb/hr

(b) 0.010 lb/MMBtu

(3) Annual Emissions: 16.2 tons/yr

(C) CO

(1) ULSD

(a) 19.2 lb/hr

(b) 0.048 lb/MMBtu

(2) Natural Gas

(a) 46.0 lb/hr

(b) 0.115 lb/MMBtu

(3) Annual Emissions: 92.9 tons/yr

ii. Demonstration of compliance with the above pollutant emissions may be met with using the following: [P105-0040, 105-0041, 105-0042, 105-0043]

(A) VOC: AP-42, Fifth Edition, Volume I, Chapter 3, Table 3.1-2a (April 2000)

(B) CO: Latest Stack Test Data

b. Monitoring Requirements

i. The Permittee shall conduct recurrent stack testing for CO at the next required NO_x RACT test pursuant to RCSA §22a-174-22(l) and within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [P105-0040, 105-0041, 105-0042, 105-0043]

ii. Stack testing for CO shall be conducted while firing both natural and ULSD.

c. Record Keeping Requirements

The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀, PM_{2.5}, VOC, and CO emissions in units of tons for each unit in GEU-4. 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 for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [P105-0040, 105-0041, 105-0042, 105-0043]

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d. Reporting Requirements

- i. The Permittee shall submit a written report to the commissioner of any testing results for CO within 60 days of the completion of such test. [RCSA §22a-174-33(j)(1)(X)]
- 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)]

6. Opacity

a. Limitation or Restriction

- i. The Permittee shall not exceed the following visible emissions limits:
 - (A) 10% opacity during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9; or [P105-0040, 105-0041, 105-0042, 105-0043]
 - (B) 40% opacity as measured by 40 CFR Part 60, Appendix A, Reference Method 9, reduced to a one-minute block average. [RCSA §22a-174-18(b)(1)(B)]

b. Monitoring Requirements

- i. The Permittee shall conduct recurrent opacity testing at the next required NO_x RACT test pursuant to RCSA §22a-174-22(l) and within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. Stack testing for opacity shall be conducted while firing both natural and ULSD.

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.6.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit a written report to the commissioner of any testing results for Opacity within 60 days of the completion of such test. [RCSA §22a-174-33(j)(1)(X)]

7. Turbine Operation and Maintenance

a. Limitation or Restriction

- i. The Permittee shall operate and maintain GEU-4 in accordance with the manufacturer's specifications and written recommendations. [P105-0040, 105-0041, 105-0042, 105-0043]
- ii. The Permittee shall operate and maintain GEU-4, 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. [P105-0040, 105-0041, 105-0042, 105-0043]

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- iii. The Permittee shall properly operate the control equipment at all times that this equipment is in operation and emitting air pollutants. [P105-0040, 105-0041, 105-0042, 105-0043]
- iv. The Permittee shall immediately institute shutdown of any turbine in GEU-4 in the event a malfunction cannot be corrected within three hours. [P105-0040, 105-0041, 105-0042, 105-0043]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbine; 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); P105-0040, 105-0041, 105-0042, 105-0043]

Such records shall contain the following information:

- (A) type of event (startup, shutdown, or malfunction);
- (B) equipment affected;
- (C) date of event;
- (D) duration of event (minutes);
- (E) fuel being used during event; and
- (F) total NO_x and CO emissions emitted (lb) during the event.

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an emissions limitation or operating parameter, and shall identify the cause or likely cause of such exceedance, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [P105-0040, 105-0041, 105-0042, 105-0043]
 - (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 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: [P105-0040, 105-0041, 105-0042, 105-0043]
 - (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.

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8. Hazardous Air Pollutants

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. [STATE ONLY REQUIREMENT] [P105-0040, 105-0041, 105-0042, 105-0043]

b. Monitoring Requirements

Record keeping specified in Section III.B.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)]

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)]

C. GROUPED EMISSIONS UNIT 5 (GEU-5): Four GE LM6000PC 50 MW Gas Turbines, NSR Permit Nos. 105-0098, 105-0099, 105-0100, and 105-00101; 40 CFR Part 60 Subpart KKKK; RCSA §§22a-174-19a, 22c, 22e

1. Allowable Fuel Usage and Operating Limitations

a. Limitation or Restriction

i. Distillate Oil (ULSD) [P105-0098, 105-0099, 105-0100, 105-0101]

(1) Less than or equal to 8,363,000 gallons over any Consecutive Twelve-Month Period for GEU-5 combined

(2) Maximum fuel sulfur content (% by weight, dry basis): 0.0015

ii. Natural Gas [P105-0098, 105-0099, 105-0100, 105-0101]

(1) Less than or equal to $2,312 \times 10^6$ scf over any Consecutive Twelve Month Period for GEU-5 combined

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- iii. The Permittee shall use the following equation to determine the maximum amount of fuel available to be burned in GEU-5: [P105-0098, 105-0099, 105-0100, 105-0101]

$$\text{Maximum Natural Gas Use} = \text{Fuel}_{\text{ng}} - (276.45) \times \text{Fuel}_{\text{oil}}$$

Where :

$\text{Fuel}_{\text{ng}} = 2,312$ million scf natural gas

$\text{Fuel}_{\text{oil}} =$ gallons of ULSD fuel burned (not to exceed 8,363,000 gal/yr)

b. Monitoring Requirements

The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor fuel feed to each unit in GEU-5. [P105-0098, 105-0099, 105-0100, 105-0101]

c. Record Keeping Requirements

- i. For each unit the Permittee shall keep records of monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel usage (for each fuel) to that of the previous 11 months. The calculations shall show continual compliance with the annual fuel limitations above. The Permittee shall make these calculations within 30 days of the end of the previous month. [P105-0098, 105-0099, 105-0100, 105-0101]
- ii. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P105-0098, 105-0099, 105-0100, 105-0101]

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. Pollutant Emissions

a. Limitation or Restriction

- i. The Permittee shall not exceed the following emissions for each unit in GEU-5 at steady state ISO conditions (50% - 100% load):

(A) PM_{10} :

(1) ULSD: 12.0 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]

(2) Natural Gas: 6.0 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]

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(B) PM_{2.5}

- (1) ULSD: 12.0 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (2) Natural Gas: 6.0 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]

(C) SO₂

- (1) ULSD: 0.70 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (2) Natural Gas: 0.26 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (3) Both Fuels: 0.060 lb/MMBtu [40 CFR §63.4330(a)(2)]

(D) NO_x

(1) ULSD

- (A) 10.5 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (B) 5.9 ppmvd @ 15% O₂ [P105-0098, 105-0099, 105-0100, 105-0101]
- (C) 50 ppmvd daily block average [RCSA §22a-174-22e(d)(4)(C)]
- (D) Less than or equal 0.15 lb/MMBtu (Non-Ozone Season 7 month average) during the period from October 1 through April 30, inclusive. [RCSA §22a-174-22e(d)(4)(D)]

(2) Natural Gas

- (A) 4.4 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (B) 2.5 ppmvd @ 15% O₂ [P105-0098, 105-0099, 105-0100, 105-0101]
- (C) 40 ppmvd daily block average [RCSA §22a-174-22e(d)(4)(C)]

(E) VOC

- (1) ULSD: 0.75 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (2) Natural Gas: 1.11 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]

(F) CO

- (1) ULSD: 1.1 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (2) ULSD: 1.0 ppmvd @ 15% O₂ [P105-0098, 105-0099, 105-0100, 105-0101]
- (3) Natural Gas: 5.3 lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]
- (4) Natural Gas: 5.0 ppmvd @ 15% O₂ [P105-0098, 105-0099, 105-0100, 105-0101]

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(G) Pb

(1) ULSD: Less than or equal to $6.4E-3$ lb/hr [P105-0098, 105-0099, 105-0100, 105-0101]

ii. Maximum Allowable Annual Emissions (tons/year)

[P105-0098, 105-0099, 105-0100, 105-0101]

(A) Emission limits are combined worst case for GEU-5 using either natural gas or distillate fuel or a combination thereof:

(1) PM₁₀: 14.9

(2) PM_{2.5}: 14.9

(3) SO₂: 0.9

(4) NO_x: 10.8

(5) VOC: 2.8

(6) CO: 19.9

(7) Pb: $7.94E-3$

(B) Emissions during startup and shutdown shall be counted towards the annual emission limitation in Part III of this permit. [P105-0098, 105-0099, 105-0100, 105-0101]

b. Monitoring Requirements

i. The Permittee shall conduct CO emissions tests at least once every five years from the date of the previous stack test. [P105-0098, 105-0099, 105-0100, 105-0101]

ii. The Permittee shall conduct NO_x emission tests of the unit at least once every five years from the date of the previous stack test.
[P105-0098, 105-0099, 105-0100, 105-0101; RCSA §22a-174-22e(l)]

iii. The Permittee shall comply with the NO_x monitoring requirements in 40 CFR §§60.4335 through 60.4355.

iv. The Permittee shall conduct NO_x stack testing, if required, pursuant to 40 CFR Part 75, Appendix E.

v. The Permittee shall comply with the excess emissions and monitoring downtime requirements for NO_x emissions pursuant to 40 CFR §60.4380. [40 CFR §60.4380]

vi. The Permittee shall monitor the SO₂ emissions in accordance with 40 CFR Part 75 Acid Rain CEM guidelines. [RCSA §22a-174-33(j)(1)(K)(ii)]

vii. The Permittee shall comply with the SO₂ monitoring requirements of 40 CFR §§60.4360 through 60.4370. [40 CFR §§60.4360 - 60.4370]

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

c. Record Keeping Requirements

i. Demonstration of compliance with the emission limits in Section III.C.2.a of this Title V permit shall be met by using the following sources: [P105-0098, 105-0099, 105-0100, 105-0101]

(A) PM₁₀/PM_{2.5}, NO_x, CO: Most recent stack test data

(B) SO_x: Calculated from 0.0015% S or less in ULSD

(C) VOC and Pb: AP-42 Chapter 3, Fifth Edition, Volume 1, Table 3.1-2a, dated 04/00

ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, CO, and Pb emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
[P105-0098, 105-0099, 105-0100, 105-0101]

iii. The Permittee shall maintain records of all CEM data, stack test results and calculations demonstrating compliance with the limitation or restriction in Section III.C.2.a.i of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

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

v. The Permittee shall keep copies of all documents submitted to the commissioner pursuant to this section and any other records or reports required by an order or permit issued by the commissioner pursuant to this section. [RCSA §§22a-174-22e(j)(2)(F) & (G)]

vi. The Permittee shall maintain records of the dates, times, and places of all emission testing required by RCSA §22a-174-22e(j)(2)(C), the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing.
[RCSA §22a-174-22e(j)(2)(C)]

vii. The Permittee shall make and keep the applicable records pursuant to RCSA §22a-174-19a(i).
[P105-0098, 105-0099, 105-0100, 105-0101]

d. Reporting Requirements

i. The Permittee shall submit the required reports pursuant to 40 CFR §60.4375. [40 CFR §60.4375]

ii. The Permittee shall submit reports of SO₂ emissions in accordance with the Acid Rain permit in Section III.D of this Title V permit and RCSA §22a-174-19a(j). [RCSA §22a-174-19a(j)]

iii. The Permittee shall submit the required reports pursuant to RCSA §22a-174-22e(k).
[RCSA §22a-174-22e(k)]

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

3. CAIR NOx Ozone Season Trading Program

Grouped Emissions Unit 5 (GEU-5) is comprised of CAIR NOx Ozone season units and therefore are subject to RCSA §22a-174-22c. The units shall comply with all applicable requirements stated in RCSA §22a-174-22c and the standard requirements of the CAIR permit application.

4. NOx and CO Startup/Shutdown Emissions

a. Limitation or Restriction

- i. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) Start the ammonia injection as soon as the minimum catalyst temperature is reached;
 - (B) The oxidation catalyst will not be bypassed during startup or shutdown;
 - (C) The duration of startup and malfunction shall not exceed 60 minutes; and
 - (D) The duration of the shutdown shall not exceed 30 minutes.
- ii. ULSD [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) NOx
 - (1) 40 lb/event during startup
 - (2) 25 lb/event during shutdown
 - (B) CO
 - (1) 18 lb/event during startup
 - (2) 9 lb/event during shutdown
- iii. Natural Gas [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) NOx
 - (1) 20 lb/event during startup
 - (2) 13 lb/event during shutdown

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(B) CO

- (1) 32 lb/event during startup
- (2) 27 lb/event during shutdown

b. Monitoring Requirements

Record Keeping specified in Section III.C.4.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 keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the combustion turbines; any malfunction of the air pollution control equipment; or any periods during which a monitoring device is inoperative. Such records shall contain the following information: [P105-0098, 105-0099, 105-0100, 105-0101]

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

ii. The Permittee shall demonstrate compliance with the emission limits in Section III.C.2 and C.4 of this Title V permit by calculating the emission rates using emission factors from the following sources: [P105-0098, 105-0099, 105-0100, 105-0101]

- (A) PM_{10/2.5}, NO_x, CO, Ammonia: Most recent stack test data
- (B) NO_x, CO startup/shutdown emission rates: Manufacturer's Data
- (C) SO_x: Calculated from 0.0015% S or less in distillate fuel oil
- (D) VOC and Pb: AP-42 Chapter 3, Fifth Edition, Volume 1, Table 3.1-2a, dated 04/00

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)]

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5. Ammonia Emissions

a. Limitations or Restrictions

Ammonia emissions from each unit shall be less than or equal to 5.0 ppmvd @ 15% O₂ at steady state (50% - 100% load). [P105-0098, 105-0099, 105-0100, 105-0101]

b. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance through stack testing once every five years starting from the date of the initial stack test to demonstrate compliance with the permit limit listed above. [P105-0098, 105-0099, 105-0100, 105-0101]

c. Record Keeping Requirements

- i. Demonstration of compliance with the emission limit in Section III.C.5.a shall be met by using most recent stack test data. [P105-0098, 105-0099, 105-0100, 105-0101]
- ii. The Permittee shall keep records of each delivery of aqueous ammonia. The records shall include: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) The date of delivery;
 - (B) The name of the supplier;
 - (C) The quantity of aqueous ammonia delivered; and
 - (D) The percentage of ammonia in solution, by weight.
- iii. The Permittee shall maintain records of stack test results and make calculations demonstrating continual compliance with the above emission limits. [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)]

6. Opacity

a. Limitations or Restrictions

- i. The Permittee shall not exceed the following visible emissions limits:
 - (A) 10% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P105-0098, 105-0099, 105-0100, 105-0101]
 - (B) 40% opacity as measured by 40 CFR Part 60, Appendix A, Reference Method 9, reduced to a one-minute block average. [RCSA §22a-174-18(b)(1)(B)]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

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

d. Reporting Requirements

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

7. Pollution Control Equipment (SCR/Oxidation Catalyst/Water Injection)

a. Limitation or Restriction

- i. The Permittee shall immediately institute shutdown of GEU-5 in the event a malfunction cannot be corrected within three hours. [P105-0098, 105-0099, 105-0100, 105-0101]
- ii. The Permittee shall operate and maintain the air pollution control equipment in accordance with the manufacturer's specifications and written recommendations. The Permittee shall operate and maintain these stationary combustion turbines, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emission at all times including during startup, shutdown, and malfunction. [P105-0098, 105-0099, 105-0100, 105-0101; 40 CFR §60.4333(a)]
- iii. The Permittee shall maintain the SCR ammonia injection rate (lb/hr), SCR operating temperature (°F), oxidation catalyst inlet temperature (°F), and the pressure drop (inches of water) across the SCR catalyst bed within the ranges recommended by the manufacturer to achieve compliance with the emission limits Section III.C of this Title V permit. [P105-0098, 105-0099, 105-0100, 105-0101]
- iv. The Permittee shall maintain the water-to-fuel ratio when the turbines are in operation between 0.680 – 1.102 lb/lb, as determined by the initial performance test to show compliance with the NO_x emission rates in this Title V permit. [P105-0098, 105-0099, 105-0100, 105-0101]
- v. The Permittee shall properly operate the control equipment at all times that this equipment is in operation and emitting air pollutants, except as allowed during startup/shutdown events in Section III.C.4.a of this permit.

b. Monitoring Requirements

- i. The Permittee shall continuously monitor the water-to-fuel ratio. [P105-0098, 105-0099, 105-0100, 105-0101]
- ii. The Permittee shall install, calibrate, maintain and operate a continuous monitoring system to monitor the fuel consumption and the ratio of water or steam to fuel being fired when burning a fuel that requires water or steam injection for compliance. [40 CFR §63.4335(a)]

Section III: Applicable Requirements and Compliance Demonstration

- iii. The Permittee shall comply with the applicable monitoring requirements found in 40 CFR §63.4355. [40 CFR §63.4355]
- iv. The Permittee shall continuously monitor the SCR ammonia injection rate (lb/hr), operating temperature (°F) and the pressure drop (inches of water) across the SCR catalyst bed. [P105-0098, 105-0099, 105-0100, 105-0101]
- v. The Permittee shall continuously monitor the oxidation catalyst inlet temperature (°F). [P105-0098, 105-0099, 105-0100, 105-0101]
- vi. The Permittee shall perform inspections on the SCR and oxidation catalysts as recommended by the manufacturer. [P105-0098, 105-0099, 105-0100, 105-0101]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the inspection and maintenance of the SCR and oxidation catalyst. The records shall include: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) The name of the person;
 - (B) The date;
 - (C) The results or actions; and
 - (D) The date the catalyst is replaced.
- ii. The Permittee shall continuously record the SCR ammonia injection rate (lb/hr), operating temperature (°F) and the pressure drop (inches of water) across the SCR catalyst bed. [P105-0098, 105-0099, 105-0100, 105-0101]
- iii. The Permittee shall continuously record the oxidation catalyst inlet temperature (°F). [P105-0098, 105-0099, 105-0100, 105-0101]
- iv. The Permittee shall keep records of manufacturer's specifications and written recommendations. [P105-0098, 105-0099, 105-0100, 105-0101]
- v. The Permittee shall record the fuel consumption and the ratio of water or steam to fuel being fired when burning a fuel that requires water or steam injection for compliance. [40 CFR §63.4335(a)]
- vi. The Permittee shall keep records of all exceedances of any operating parameter. Such records shall include: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) The date and time of the exceedance;
 - (B) A detailed description of the exceedance; and
 - (C) The duration of the exceedance.

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an operating parameter, and shall identify the cause or likely cause of such exceedance, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures as follows: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other operating parameter, no later than ten days after such exceedance commenced.
- ii. The Permittee shall notify the commissioner in writing of any malfunction of the stationary gas turbines, the air pollution control equipment or the continuous monitoring system. The Permittee shall submit such notification with seven days of the malfunction. The notification shall include the following: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) Description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) Description of all corrective actions and preventative measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.

8. Turbine Exchanges

a. Record Keeping Requirements

- i. The Permittee shall make and keep records of when the turbines are exchanged for routine maintenance, to include the following: [P105-0098, 105-0099, 105-0100, 105-0101]
 - (A) The date the turbine was changed;
 - (B) The reason for the change;
 - (C) Documentation that the replacement turbine or gas generator is the same make and model number; and
 - (D) Documentation that the replacement turbine does not result in an increase in emissions, the emission of any new air pollutants, or increases in electrical output of the turbine.

b. Reporting Requirements

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

9. Turbine Operation and Maintenance

a. Limitation or Restriction

The Permittee shall operate and maintain GEU-5, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR §60.4333]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

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

[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.C.9.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)]

10. Hazardous Air Pollutants

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. [STATE ONLY REQUIREMENT] [P105-0098, 105-0099, 105-0100, 105-0101]

b. Monitoring Requirements

Record keeping specified in Section III.C.10.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.C.10.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)]

Section III: Applicable Requirements and Compliance Demonstration

D. FEDERAL ACID RAIN PERMIT REQUIREMENTS

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

a. *General Electric 40 MW Combustion Turbine Model LM6000PA*

		2023	2024	2025	2026	2027
EU-08 (Unit 11)	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. *General Electric 40 MW Combustion Turbine Model LM6000PA*

		2023	2024	2025	2026	2027
EU-09 (Unit 12)	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				

c. *General Electric 40 MW Combustion Turbine Model LM6000PA*

		2023	2024	2025	2026	2027
EU-10 (Unit 13)	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				

d. *General Electric 40 MW Combustion Turbine Model LM6000PA*

		2023	2024	2025	2026	2027
EU-11 (Unit 14)	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				

Section III: Applicable Requirements and Compliance Demonstration

e. *General Electric 50 MW Combustion Turbine Model LM6000PC*

		2023	2024	2025	2026	2027
EU-012 (Unit 15)	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				

f. *General Electric 50 MW Combustion Turbine Model LM6000PC*

		2023	2024	2025	2026	2027
EU-013 (Unit 16)	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				

g. *General Electric 50 MW Combustion Turbine Model LM6000PC*

		2023	2024	2025	2026	2027
EU-014 (Unit 17)	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				

h. *General Electric 50 MW Combustion Turbine Model LM6000PC*

		2023	2024	2025	2026	2027
EU-015 (Unit 18)	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				

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.

Section III: Applicable Requirements and Compliance Demonstration

F. 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-174-4a(b)(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. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B).
15. **Sulfur Dioxide Emissions:** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
16. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.

Section III: Applicable Requirements and Compliance Demonstration

- 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

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

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.
- H.** The Permittee shall comply with the requirements for Architectural and Industrial Maintenance Coatings as set forth in RCSA §22a-174-41a.
- I.** The Permittee shall comply with the requirements for Adhesives and Sealants as set forth in RCSA §22a-174-44.

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

Notwithstanding Section VI.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.

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:

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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-60.

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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

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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