



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

**BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT**

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	028-0029-TV
Client/Sequence/Town/Premises Numbers	8044/1/028/49
Date Issued	June 22, 2016
Expiration Date	June 22, 2021

Corporation:

Iroquois Pipeline Operating Company

Premises Location:

Brookfield Compressor Station, 78 High Meadow Road, Brookfield, CT 06804

Name of Responsible Official and Title:

James T. Barnes, EH & S Manager

All the following attached pages, 2 through 28, are hereby incorporated by reference into this Title V permit.

/s/Anne Gobin for _____
Robert J. Klee
Commissioner

June 22, 2016
Date

TABLE OF CONTENTS

	PAGE
List of Abbreviations/Acronyms	4
Section I. Premises Information/Description	
A. Premises Information.....	5
B. Premises Description.....	5
Section II. Emissions Units Information	
A. Emissions Units Description - Table II.A.....	6
B. Operating Scenario Identification - Table II.B	8
Section III. Applicable Requirements and Compliance Demonstration	
A. Grouped Emissions Unit 1	9
B. Emissions Unit 3.....	15
C. Premises-Wide General Requirements	17
Section IV. Compliance Schedule - Table IV	19
Section V. State Enforceable Terms and Conditions	20
Section VI. Title V Requirements	
A. Submittals to the Commissioner & Administrator.....	22
B. Certifications [RCSA §22a-174-33(b)].....	22
C. Signatory Responsibility [RCSA §22a-174-2a(a)]	22
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)].....	23
E. Monitoring Reports [RCSA §22a-174-33(o)(1)]	23
F. Premises Records [RCSA §22a-174-33(o)(2)]	24
G. Progress Reports [RCSA §22a-174-33(q)(1)].....	24
H. Compliance Certifications [RCSA §22a-174-33(q)(2)].....	25
I. Permit Deviation Notifications [RCSA §22a-174-33(p)]	25
J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....	25
K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)]	25
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)]	25
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....	26
N. Permit Availability.....	26
O. Severability Clause [RCSA §22a-174-33(j)(1)(R)]	26
P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....	26
Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)]	26
R. Property Rights [RCSA §22a-174-33(j)(1)(W)]	26
S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)].....	26
T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)]	27
U. Information for Notification [RCSA §22a-174-33(r)(2)(A)].....	27
V. Transfers [RCSA §22a-174-2a(g)]	27
W. Revocation [RCSA §22a-174-2a(h)]	27
X. Reopening for Cause [RCSA §22a-174-33(s)]	28
Y. Credible Evidence.....	28

Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
bhp	Brake Horsepower
Btu	British Thermal Units
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
°F	Degree Fahrenheit
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
HHV	Higher Heating Value
hp	Horsepower
hr	Hour
ICE	Internal Combustion Engine
lb	Pound
LHV	Lower Heating Value
MMBtu	Million British Thermal Units
MMCF	Million Cubic Feet
MSCFH	Million Standard Cubic Feet Per Hour
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
O ₂	Oxygen
O & M	Operation and Maintenance
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
Scf	Standard Cubic Feet
SI	Spark Ignition
SIC	Standard Industrial Classification Code
SO _x	Sulfur Oxides
SO ₂	Sulfur Dioxide
TPY	Tons per year
UHC	Unburned Hydrocarbons
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Pipeline Transmission of Natural Gas

Primary SIC: 4922

Facility Mailing Address: Iroquois Pipeline Operating Company
One Corporate Drive, Suite 600
Shelton, CT 06484

Telephone Number: 203-944-7023

B. PREMISES DESCRIPTION

Iroquois Pipeline Operating Company (Iroquois) transports natural gas via a 416-mile interstate pipeline system that begins at the U.S. - Canadian border in Waddington, NY through New York State and Western Connecticut to Commack, NY.

The compressor station operates two Solar Turbine, Inc. natural gas fired combustion turbines with dry lean pre-mixed low emission (SoLoNO_xTM) combustors for recompressing the pipeline natural gas to ensure that it continues to move along the pipeline at serviceable pressure. The turbines are subject to the Standards of Performance for Stationary Gas Turbines (40 CFR Part 60 Subpart KKKK).

The facility also operates a Caterpillar lean burn emergency generator which is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR Part 60 Subpart JJJJ) and the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ). The emergency engine will comply with 40 CFR Part 63 Subpart ZZZZ by complying with the applicable requirements of 40 CFR 60 Subpart JJJJ, pursuant to 40 CFR §63.6590(c).

During an emergency, Iroquois is required to blow down and vent natural gas to the atmosphere under Federal Department of Transportation, Pipeline and Hazardous Materials Safety Administration Regulations.

Iroquois is a Title V source because potential Nitrogen Oxides (NO_x) emissions exceed the major source threshold. Iroquois is located in a severe non-attainment area for ozone as defined in RCSA §22a-174-1(104).

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
GEU-001	EU-001	Solar Natural Gas Fired Combustion Turbine Model: Taurus 60 Installation Date: October 25, 2008 Maximum Gross Heat Input: 65 MMBtu/hr Maximum Fuel Firing Rate: 70.4 MSCFH @ LHV= 923.9 Btu/Scf (@ 100% load & 0°F) 62 MSCFH @ HHV= 1049 Btu/Scf Or By the equation developed based on the Maximum Fuel Firing Rate (@HHV) vs. Ambient Temperature Plot (Permit No. 028-0027-Appendix A). <i>Maximum Fuel Firing Rate¹ = -0.0007T² - 0.0447T + 61.834</i> Where T = Ambient Temperature (°F)	SoLoNO _x TM Combustor	Permit No. 028-0027 RCSA §22a-174-22 40 CFR Part 60 Subpart KKKK
	EU-002	Solar Natural Gas Fired Combustion Turbine Model: Taurus 70 Installation Date: October 05, 2009 Maximum Gross Heat Input: 82.85 MMBtu/hr Maximum Fuel Firing Rate: 89.7 MSCFH @ LHV= 923.9 Btu/Scf (@ 100% load & 0°F) 79 MSCFH @ HHV= 1049 Btu/Scf	SoLoNO _x TM Combustor	Permit No. 028-0028 RCSA §22a-174-22 40 CFR Part 60 Subpart KKKK

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
GEU-001 cont.		<p align="center">Or</p> <p>By the equation developed based on the Maximum Fuel Firing Rate (@HHV) vs. Ambient Temperature Plot (Permit No. 028-0028-Appendix A).</p> $\text{Maximum Fuel Firing Rate}^1 = -0.0012T^2 - 0.0549T + 78.84$ <p>Where T = Ambient Air Temperature (°F)</p> <p>¹ a. Maximum Fuel Firing Rate based on the equation shall be used for Source Emission Monitoring Purposes. b. Calculated Maximum Fuel Firing Rate shall be adjusted to one decimal place</p>		
	EU-003	<p>Caterpillar Lean Burn Emergency Generator Engine Model: G3412 Installation Date: October 25, 2008 Maximum Rated Capacity: 637 bhp</p>	None	<p>RCSA §§22a-174-3b and -22</p> <p>40 CFR Part 60 Subpart JJJJ</p>

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
GEU-001	<p>The emission units shall be operated in accordance with applicable permit terms and conditions. The emission units shall be operated and maintained in accordance with the manufacturer's specifications and written recommendations.</p> <p>The Permittee shall not operate the turbines in steady-state at less than 50% of the maximum load specified by the manufacturer.</p>
EU-003	<p>The emission unit shall be operated on natural gas.</p>

Section III: Applicable Requirements and Compliance Demonstration

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

**A. GEU-1: EU-001 and EU-002 (2-Solar Natural Gas Fired Combustion Turbines)
Permit or Regulation Number: Permit Nos. 028-0027, 028-0028 and
40 CFR Part 60 Subpart KKKK**

1. Natural Gas

a. Limitation or Restriction

- i. Annual natural gas consumption over any consecutive 12 month period shall not exceed the following limits:

(A) EU-001: 617 MMCF [Permit No. 028-0027]

(B) EU-002: 785 MMCF [Permit No. 028-0028]

b. Monitoring Requirements

The Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed to the turbines. [Permit Nos. 028-0027 and 028-0028]

c. Record Keeping Requirements

The Permittee shall make and keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 028-0027 and 028-0028]

2. PM₁₀/PM_{2.5}

a. Limitation or Restriction

The Permittee shall not cause or allow GEU-001 to exceed PM₁₀/PM_{2.5} (filterable and condensable) emission limits stated herein at any time:

	EU-001 <u>[Permit No. 028-0027]</u>	EU-002 <u>[Permit No. 028-0028]</u>
lb/MMBtu	0.018	0.018
lb/hr	1.2	1.49
TPY	5.1	6.5

b. Monitoring Requirements

- i. Demonstration of compliance with the PM₁₀/PM_{2.5} emission limits shall be met by calculating the emission rates using emission factors from the following sources: Manufacturer's Recommended Emission Factor or DEEP approved stack test data.
[Permit Nos. 028-0027 and 028-0028]

Section III: Applicable Requirements and Compliance Demonstration

- ii. EU-001: The Permittee shall conduct recurrent stack testing for PM₁₀ (filterable and condensable) at least once every five years from the date of the previous stack test if the results of the initial stack test for PM₁₀ exceed 75% of its respective limit. [Permit No. 028-0027]
- iii. EU-002: The Permittee shall conduct recurrent stack testing for PM₁₀ (filterable and condensable) at least once every five years from the date of the previous stack test to demonstrate compliance with the respective limit. [Permit No. 028-0028]
- iv. The Permittee shall conduct stack test using an acceptable EPA Reference Method to determine PM₁₀ (filterable and condensable). [Permit Nos. 028-0027 and 028-0028]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of monthly and consecutive 12 month emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month’s emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall keep documentation of all calculations, parameters and data from emissions testing performed on the turbines. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit a written report to the commissioner of any stack testing results within 60 days of the completion of such PM₁₀ test. [RCSA §22a-174-33(j)(1)(K)]

3. NO_x

a. Limitation or Restriction

The Permittee shall not cause or allow GEU-001 to exceed NO_x emission limits stated herein at any time:

	EU-001 [Permit No. 028-0027]	EU-002 [Permit No. 028-0028]
ppmvd @ 15% O ₂	15	15
lb/MMBtu	0.060	0.06
lb/hr	3.9	4.97
TPY	17.1	22.0

b. Monitoring and Testing Requirements

- i. Demonstration of compliance with the NO_x emission limits shall be met by calculating the emission rates using emission factors from the following sources: Manufacturer’s Guaranteed Data or DEEP approved stack test data. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall conduct annual/biennial NO_x performance tests for each unit in GEU-001 to demonstrate compliance with the respective NO_x emission limits in accordance with 40 CFR §60.4400. The tests shall be conducted in accordance with the frequency as specified in 40 CFR §60.4340(a). [Permit Nos. 028-0027, 028-0028 and 40 CFR §60.4340(a)]

Section III: Applicable Requirements and Compliance Demonstration

iii. The Permittee shall comply with the monitoring requirements in 40 CFR §60.4340 through 40 CFR §60.4355. [40 CFR §60.4340 – 40 CFR §60.4355]

c. *Record Keeping Requirements*

i. The Permittee shall make and keep the following records:

- (A) 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. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 028-0027 and 028-0028]
- (B) Records of fuel use and operating hours to determine whether the NO_x emissions from the premises on any day from May 1 to September 30, inclusive, are in excess of 137 pounds. [RCSA §22a-174-22(1)(1)(B)]
- (C) Monthly and annual records of fuel use and operating hours to determine whether NO_x emissions from the premises in any calendar year are in excess of 25 TPY. [RCSA §22a-174-22(1)(1)(C), Permit Nos. 028-0027 and 028-0028]
- (D) Records of all tune-ups, repairs, replacement of parts and other maintenance. [RCSA §22a-174-22(1)(1)(D)]
- (E) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22. [RCSA §22a-174-22(1)(1)(E)]
- (F) Procedures for calculating NO_x emission rates. [RCSA §22a-174-22(1)(1)(G)]
- (G) Records of the dates, times, and places of all emission testing, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(1)(1)(H)]

d. *Reporting Requirements*

The Permittee shall submit report of the results of each performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR §60.4375(b)]

4. Sulfur Oxides (SO_x)

a. *Limitation or Restriction*

The Permittee shall not cause or allow GEU-001 to exceed SO_x emission limits stated herein at any time:

	EU-001 [Permit No. 028-0027]	EU-002 [Permit No. 028-0028]
lb/MMBtu	0.001	0.001
lb/hr	0.1	0.07
TPY	0.2	0.3

Section III: Applicable Requirements and Compliance Demonstration

b. *Monitoring and Testing Requirements*

- i. Demonstration of compliance with the SO_x emission limits shall be met by calculating the emission rates using emission factors from the following sources: Mass balance calculation based on Iroquois' fuel gas sulfur content and assuming that all elemental sulfur is converted to SO₂. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall comply with the applicable monitoring requirements of 40 CFR §60.4360 through 40 CFR §60.4370. [40 CFR §60.4360 - 40 CFR §60.4370]

c. *Record Keeping Requirements*

The Permittee shall make and keep records of monthly and consecutive 12 month SO_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. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 028-0027 and 028-0028]

d. *Reporting Requirements*

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

5. Volatile Organic Compound (VOC)

a. *Limitation or Restriction*

The Permittee shall not cause or allow GEU-001 to exceed VOC emission limits stated herein at any time:

	EU-001 [Permit No. 028-0027]	EU-002 [Permit No. 028-0028]
lb/MMBtu	0.003	0.003
lb/hr	0.2	0.29
TPY	1.0	1.3

b. *Monitoring and Testing Requirements*

- i. Demonstration of compliance with the VOC emission limits shall be met by calculating the emission rates using emission factors from the following sources: Manufacturer's Unburned Hydrocarbons (UHC) data multiplied by a 10% VOC fraction. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall comply with the applicable monitoring requirements of 40 CFR §60.4360 through 40 CFR §60.4370. [40 CFR §60.4360 - 40 CFR §60.4370]

c. *Record Keeping Requirements*

The Permittee shall make and keep records of monthly and consecutive 12 month VOC emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month.

Section III: Applicable Requirements and Compliance Demonstration

[Permit Nos. 028-0027 and 028-0028]

d. Reporting Requirements

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

6. Carbon Monoxide (CO)

a. Limitation or Restriction

The Permittee shall not cause or allow GEU-001 to exceed CO emission limits stated herein at any time:

	EU-001 [Permit No. 028-0027]	EU-002 [Permit No. 028-0028]
ppmvd@15% O ₂	25	25
lb/MMBtu	0.061	0.06
lb/hr	4.0	5.04
TPY	17.4	22.1

b. Monitoring and Testing Requirements

- i. Demonstration of compliance with the CO emission limits shall be met by calculating the emission rates using emission factors from the following sources: Manufacturer's guaranteed data or DEEP approved stack test data. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall conduct CO performance tests of EU-002 at least once every five years. [Permit No. 028-0028]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall keep documentation of all calculations, parameters and data from emissions testing performed on the turbines. [RCSA §22a-174-33(j)(1)(K)]

Section III: Applicable Requirements and Compliance Demonstration

7. Opacity

a. Limitation or Restriction

Opacity resulting from operation of each turbine in GEU-001 shall not exceed 10% during any six-minute block average or 40% reduced to a one-minute block average; as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [Permit Nos. 028-0027 and 028-0028]

b. Monitoring and Testing Requirements

The Permittee shall use 40 CFR Part 60, Appendix A, Reference Method 9 (or equivalent EPA approved method) to demonstrate compliance with the opacity limitation. [RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

The Permittee shall maintain all required records as specified in 40 CFR Part 60, Appendix A, Reference Method 9. [RCSA §22a-174-33(j)(1)(K)]

8. Operation and Maintenance (O & M) Requirements

a. Limitation or Restriction

- i. The Permittee shall not operate the turbines in steady-state at less than 50% of the maximum load specified by the manufacturer. [Permit Nos. 028-0027 and 028-0028]
- ii. The Permittee shall not operate each unit more than 15 minutes at less than 50% load. [Permit Nos. 028-0027 and 028-0028]
- iii. The Permittee shall operate and maintain these turbines in accordance with the manufacturer's specifications and written recommendations. [Permit Nos. 028-0027 and 028-0028]
- iv. The Permittee shall operate and maintain the turbines, 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. [Permit Nos. 028-0027, 028-0028 and 40 CFR §60.11(d)]
- v. The Permittee shall immediately institute shutdown of the turbines in the event a malfunction cannot be corrected within three hours. [Permit Nos. 028-0027 and 028-0028]
- vi. During any air pollution emergency episode that occurs, the Permittee shall operate the turbines in accordance with the Updated Facility Emergency Episode Plans submitted to the Department. [Permit Nos. 028-0027, 028-0028 and RCSA §22a-174-6]

b. Monitoring and Testing Requirements

The Permittee shall maintain an automated alarm system which is triggered when either of the units operates at less than 55% of maximum load for more than 15 minutes.

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of each occurrence and duration of any startup, shutdown, or malfunction in the operation of GEU-001 or any malfunction of the air pollution control equipment. Such records shall contain the following information: [Permit Nos. 028-0027, 028-0028 and 40 CFR §60.7(b)]
 - (A) Type of event (startup, shutdown, or malfunction);
 - (B) Date of event; and
 - (C) Duration of event (minutes)
- ii. The Permittee shall make and keep records of all exceedances of any operating parameters. Such records shall include: [Permit Nos. 028-0027 and 028-0028]
 - (A) The date and time of the exceedance;
 - (B) Detailed description of the exceedance; and
 - (C) The duration of the exceedance.

B. EU-003 Caterpillar Lean Burn Emergency Generator Engine

Permit or Regulation Number: RCSA §§22a-174-3b, -22 and 40 CFR Part 60 Subpart JJJJ

NSPS Designation: Lean burn engine greater than or equal to 500 and less than 1,350 hp, constructed after 6/12/06 and manufactured on or after 1/1/08

1. Maximum Hours of Operation

a. Limitation or Restriction

The Permittee shall not allow the operation of the emergency engine to exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring and Testing Requirements

The Permittee shall monitor the engine's monthly hours of operation. [RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the information necessary for the commissioner to determine compliance with the requirements of RCSA §22a-174-3b(e)(2). Information sufficient to make such determinations may include the information specified in RCSA §22a-174-3b(e)(4). All records made to determine compliance with the requirements of RCSA §22a-174-3b(e)(3) shall be: [RCSA §22a-174-3b(e)(3)]
 - (A) Made available to the commissioner to inspect and copy upon request; and
 - (B) Maintained for five years from the date such record is created.

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall make and keep records of operating hours in daily, monthly and a 12 month rolling aggregate, identifying the operating hours of emergency and non-emergency use. Maximum annual operating hours shall be based on any consecutive 12 month time period and shall be determined by adding each month's operating hours to that of previous 11 months. [RCSA §22a-174-3b(e)(4)]

2. O & M Requirements

a. Limitation or Restriction

- i. The Permittee shall properly maintain equipment and operate such engine in accordance with RCSA §22a-174-3b(e). [RCSA §22a-174-3b(e)(1)]
- ii. The Permittee shall operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
- iii. The Permittee shall meet the applicable requirements as specified in 40 CFR Part 1068, Subparts A through D. If the Permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. [40 CFR §60.4243(a)(1)]
- iv. The Permittee shall comply with the applicable General Provisions requirements according to 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246 and 40 CFR Part 60 Subpart JJJJ]

b. Record Keeping Requirements

- i. If the Permittee operates and maintains the certified stationary SI internal combustion engine according to the manufacturer's emission-related written instructions, the Permittee shall make and keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. [40 CFR §60.4243(a)(1)]
- ii. The Permittee shall make and keep records of the following information: [40 CFR §§60.4245(a)(1)-(3)]
 - (A) All notifications submitted to comply with this 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.
 - (B) Maintenance conducted on the engine.
 - (C) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
- iii. The Permittee shall make and keep records sufficient to show compliance with applicable General Provisions requirements of 40 CFR Part 60 Subpart JJJJ, Table 3. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

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. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. **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.
4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **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.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **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. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality

Section III: Applicable Requirements and Compliance Demonstration

standard as set forth in RCSA §22a-174-24(b).

- 17. Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

THERE IS NO 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

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.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- H.** Fuel Sulfur Content
 - 1. For the period beginning July 1, 2014 and ending June 30, 2018, the Permittee shall not use No. 2 heating oil that exceeds five hundred parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(A); and
 - 2. On or after July 1, 2018, 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) .

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: Office of the Director; Engineering & Enforcement Division; 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 in a computer-readable format and addressed to: U.S. EPA New England, 5 Post Office Square, Suite 100 (OES04-2), Boston, Massachusetts 02109, Attn: Air Clerk.

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

Section VI: Title V Requirements

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

Section VI: Title V Requirements

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

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

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

Y. CREDIBLE EVIDENCE

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

Print for Compliance Certification or Enforcement

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

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

Print Enforcement Checklist

Print Compliance Certification