



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	<i>213-0069-TV</i>
Client/Sequence/Town/Premises Numbers	8095/01/213/01
Date Issued	November 24, 2014
Expiration Date	November 24, 2019

Corporation:

Algonquin Power Windsor Locks, LLC

Premises Location:

26 Canal Bank Road, Windsor Locks, CT 06096

Name of Responsible Official and Title:

James White, Plant Manager

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

/s/Anne Gobin
Robert J. Klee
Commissioner

November 24, 2014
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>
ACFM	Actual Cubic Feet per Minute
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
cf	Cubic feet
CGS	Connecticut General Statutes
CMS	Continuous Monitoring System
CO	Carbon Monoxide
DERC	Discrete Emission Reduction Credit
EU	Emissions Unit
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
gal	Gallons
GEU	Grouped Emissions Units
GHG	Green House Gases
gr	Grain
HAP	Hazardous Air Pollutant
ISO-NE	Independent System Operator – New England
hr	Hour
lb	Pound
Mgal	Thousand gallons
MMBTU	Million British Thermal Units
MMcf	Million cubic feet
MMscf	Million standard cubic feet
MW	Megawatts
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
P.O.	Postal Office
Pb	Lead
PM _{2.5}	Particulate Matter less than 2.5 microns
PM ₁₀	Particulate Matter less than 10 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
scf	Standard cubic feet
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Oxide
SO _x	Sulfur Oxide
SCR	Selective Catalytic Reduction
TA&O	Trading Agreement and Order
TPY	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Electricity/steam generation
Primary SIC: 4931

Facility Mailing Address: Algonquin Power Windsor Locks, LLC
P.O. Box 289
26 Canal Bank Road
Windsor Locks, CT 06096

Telephone Number: (860) 627-6616

B. PREMISES DESCRIPTION

This Title V permit covers the Algonquin Power Windsor Locks Cogeneration facility (APWL – Cogeneration facility). The facility was initially known as Dexter Cogeneration Facility, then Ahlstrom Windsor Locks Cogeneration, LLC. The APWL-Cogeneration facility supplies steam and electricity to an adjacent paper mill owned by Ahlstrom Dexter, LLC (AD). Without this steam, the mill could not operate unless it brought in separate steam generating units. Initially, the APWL-Cogeneration facility and the paper mill were to be permitted as one Title V source, due to common ownership (Ahlstrom Dexter, LLC) and the fact that the cogeneration plant is a support facility. The two facilities are no longer under common ownership and therefore are to be permitted separately, with the APWL-Cogeneration facility receiving a Title V permit and the paper mill (AD) operating under a General Permit to Limit Potential to Emit.

APWL-Cogeneration facility is a combined-cycle cogeneration plant producing electricity and steam through a simple topping cycle. The facility consists of a General Electric model MS6001 (B) combustion turbine generator with a two pressure waste heat boiler, two Nebraska Modified Type A package boilers and a 15 MW Solar Titan 130 gas turbine with a lean premix combustor, a non-fired heat recovery steam generator, an SCR system and an oxidation catalyst. The facility also includes two 180,000 gallon No. 2 fuel oil storage tanks, for which there are no applicable requirements. The facility produces and sells electricity to Northeast Utilities as well as electricity and steam for the adjacent AD operations.

APWL-Cogeneration facility is a Title V source located in a serious ozone non-attainment area as defined in RCSA §22a-174-1. The facility is a Title V source as emissions are greater than the major source threshold levels for NO_x, CO, SO_x and GHG.

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				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
GEU1	EU1	General Electric Turbine Model MS6001(B) Equipment No. G-101 Construction date: 02/15/1988 Natural gas: 555.2 MMBTU/hr No. 2 fuel oil: 529.5 MMBTU/hr	Steam Injection Ammonia Injection	P 213-0029 Issue date: 11/06/1991 40 CFR Part 60 Subpart GG Trading Agreement & Order No. 8319 Issue date: 11/14/2012
	EU2	Nebraska Modified Type A Boiler Equipment No. H-102A Construction date: 02/15/1988 Natural gas: 177.6 MMBTU/hr No. 2 fuel oil: 170.1 MMBTU/hr	Low NOx Burner	P 213-0031 Issue date: 11/06/1991 40 CFR Part 60 Subpart Db
	EU3	Nebraska Modified Type A Boiler Equipment No. H-102B Construction date: 02/15/1988 Natural gas: 177.6 MMBTU/hr No. 2 fuel oil: 170.1 MMBTU/hr	Low NOx Burner	P 213-0032 Issue date: 11/06/1991 40 CFR Part 60 Subpart Db
	EU7	15 MW Solar Titan 130 gas turbine Construction date: 04/16/2012 Natural gas: 178 MMBTU/hr	Oxidation Catalyst Selective Catalytic Reduction	P 213-0116 Issue date: 12/08/2011 Modification date: 7/31/2014 40 CFR Part 60 Subpart KKKK

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Unit	Description of Scenario
EU1, EU2, EU3 and EU7	<p>Two turbines and two boilers: The standard use of this equipment is to produce electricity and steam.</p> <p>General Electric turbine (EU1- Permit No. 213-0029) and two Nebraska boilers (EU2 – Permit No. 213-0031 and EU3 – Permit No. 213-0032) burn natural gas and No. 2 fuel oil. The turbine and the boilers can be operated by themselves or under the following combinations: turbine and the equivalent of one boiler, two boilers without the turbine.</p> <p>Solar Titan 130 turbine (EU7 – Permit No. 213-0116): this turbine burns natural gas only.</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. GROUPED EMISSIONS UNIT 1 (GEU1):

EMISSIONS UNIT 1 (EU1): General Electric Turbine operating under Permit No. 213-0029, Trading Agreement & Order No. 8319 and subject to 40 CFR Part 60 Subpart GG

EMISSIONS UNITS 2 and 3 (EU2 and EU3): Two Nebraska Modified Type A Boilers, Equipment Nos. H-102A and 102B operating under Permit Nos. 213-0031 and 213-0032 and subject to 40 CFR Part 60 Subpart Db

1. Operational Conditions

a. Limitation or Restriction

EU1: General Electric Turbine [Permit No. 213-0029]

- i. Maximum fuel firing rate:
Natural gas: 539,029.1 cf/hr
No. 2 fuel oil: 3,755.3 gal/hr
- ii. Maximum rated capacity:
Natural gas: 555.2 MMBTU/hr @ 0°F
No. 2 fuel oil: 529.5 MMBTU/hr @ 0°F
- iii. Minimum exhaust flow at maximum operation:
Turbine: 430,965 ACFM
Turbine with the equivalent of one Nebraska boiler: 480,801 ACFM

EU2 and EU3: Two Nebraska Boilers [Permit Nos. 213-0031 and 213-0032]

- iv. Maximum fuel firing rate (per boiler):
Natural gas: 172,427 cf/hr
No. 2 fuel oil: 1,206 gal/hr
- v. If the turbine is concurrently operated with both Nebraska boilers while burning No. 2 fuel oil, the combined maximum firing rate of the boilers is limited to 1,206 gal/hr.
- vi. Maximum rated capacity (per boiler):
Natural gas: 177.6 MMBTU/hr
No. 2 fuel oil: 170.1 MMBTU/hr
- vii. Minimum exhaust flow at maximum operation: 49,836 ACFM

b. Monitoring and Testing Requirements

- i. The Permittee shall verify the firing rate, maximum rated capacity and exhaust flow using parametric monitors daily.
[RCSA §22a-174-33(j)(1)(K)(i)]
- ii. The Permittee shall maintain and operate a CMS for all parameters and air pollution control parameters necessary to determine compliance with the limits in Section III.A.1.a of this Title V permit. [Permit Nos. 213-0029, 213-0031 and 213-0032]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

In accordance with Section VI.F of this Title V permit, the Permittee shall make and maintain the records to show compliance with the limits of Section III.A.1.a of this Title V permit for a minimum of five years, commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]

d. Reporting Requirements

The Permittee shall review all recorded data daily and report to the Department within three working days any exceedance or deviation from any condition in Section III.A.1.a of this Title V permit. [Permit Nos. 213-0029, 213-0031 and 213-0032]

2. Fuel Sulfur Content

a. Limitation or Restriction

Maximum Sulfur in the No. 2 fuel oil: 0.28% by weight, dry basis
[Permit Nos. 213-0029, 213-0031 and 213-0032]

b. Monitoring and Testing Requirements

Fuel analysis for the sulfur content of liquid fuels shall be done according to the most current ASTM method D 4294, or the most current methods approved by the ASTM for the analysis of sulfur content of liquid fuels. [RCSA §22a-174-5(b)(1)]

c. Record Keeping Requirements

In accordance with Section VI.F of this Title V, the Permittee shall make and keep records to show compliance with the limits of Section III.A.2.a of this Title V permit for a minimum of five years, commencing on the date such records were created. [RCSA §§22a-174-33(j)(1)(K)(ii) and (o)(2)]

d. Reporting Requirements

The Permittee shall review all recorded data daily and report to the Department within three working days any exceedance of an allowable emission limit in Section III.A.2.a of this Title V permit. [Permit Nos. 213-0029, 213-0031 and 213-0032]

3. Opacity

a. Limitation or Restriction

- i. Instantaneous opacity limit: $\leq 40\%$ [Permit Nos. 213-0029, 0031 and 0032]
- ii. Six minute block average opacity limit : $\leq 10\%$ [Permit Nos. 213-0029, 0031 and 0032]
- iii. Any of the two Nebraska boilers and/or the General Electric turbine shall be shutdown when five consecutive six minute block averages exceed 40%.
[Permit Nos. 213-0029, 213-0031 and 213-0032]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

The Permittee shall verify Opacity using CEM data based on a six minute block average.
[Permit Nos. 213-0029, 213-0031 and 213-0032]

c. Record Keeping Requirements

In accordance with Section VI.F of this Title V permit, the Permittee shall make and maintain the following records for a minimum of five years, commencing on the date such records were created.
[RCSA §22a-174-33(o)(2)]:

Documentation of opacity readings shall be made daily.

d. Reporting Requirements

- i. The Permittee shall review all recorded data daily and report to the Department within three working days any exceedance of an allowable emission limit or deviation from any condition in Section III.A.3.a of this Title V permit.
[Permit Nos. 213-0029, 213-0031 and 213-0032]
- ii. The Permittee shall submit to the Department a quarterly summary and excess emissions report specified in 40 CFR §60.49b for the two Nebraska boilers and 40 CFR §60.334(a) for the General Electric turbine. [Permit Nos. 213-0029, 213-0031 and 213-0032]

4. TSP, PM₁₀, VOC, CO, Pb and sulfuric acid

a. Limitation or Restriction

EUI: General Electric Turbine [Permit No. 213-0029]

i. Natural gas:

Criteria			
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
TSP	7.73	0.014	29.11
PM ₁₀	2.37	0.00426	8.87
VOC	14.36	0.026	54.06
CO	61.85	0.112	232.87

ii. No. 2 fuel oil

Criteria			
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
TSP	18.53	0.035	69.23
PM ₁₀	16.23	0.00306	60.63
VOC	13.77	0.026	51.43
CO	57.71	0.109	215.60

Non-Criteria

<u>Pollutants</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
Pb	0.0016	0.000003	0.0059
Sulfuric Acid	3.33	0.0063	12.44

Section III: Applicable Requirements and Compliance Demonstration

EU2 and EU3: Two Nebraska Boilers [Permit Nos. 213-0031 and 213-0032]

Note: Allowable emissions are per boiler

iii. Natural gas:

Criteria <u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
TSP	0.86	0.0049	3.77
VOC	1.00	0.0056	4.38
CO	14.56	0.082	63.77

iv. No. 2 fuel oil

Criteria <u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
TSP	2.41	0.014	10.56
PM ₁₀	1.3	0.0077	5.71
VOC	0.82	0.0048	3.59
CO	13.95	0.082	61.10

Non-Criteria <u>Pollutants</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>
Pb	0.00051	0.000003	0.0022
Sulfuric Acid	1.09	0.0064	4.774

EU1, EU2 and EU3: General Electric Turbine and Two Nebraska Boilers [Permit Nos. 213-0029, 0031 and 0032]

Note: Total allowable emissions are for a combination of the combustion turbine (Permit No. 213-029) and the equivalent of one boiler (Permit Nos. 213-0031 and 213-0032) firing No. 2 fuel oil or natural gas.

v. Total allowable emissions

Criteria <u>Pollutant</u>	<u>TPY</u>
TSP	79.79
PM ₁₀	66.32
VOC	58.44
CO	296.65

Non-Criteria <u>Pollutants</u>	<u>TPY</u>
Pb	0.0081
Sulfuric Acid	17.214

b. *Monitoring and Testing Requirements*

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

Section III: Applicable Requirements and Compliance Demonstration

c. *Record Keeping Requirements*

- i. The Permittee shall calculate and record the monthly and consecutive 12 month TSP, PM₁₀, VOC, CO, Pb and sulfuric acid 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.
[RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. To show compliance with the limits of Section III.4.a of this Title V permit, the Permittee shall use the following emission factors (BACT determination). [RCSA §22a-174-33(o)(2)]

Emission Factors for EU1, EU2 and EU3								
Emissions Unit	Fuel	Emission Factor Unit	Pollutants					
			VOC	CO	PM	PM10	Pb	Sulfuric Acid
EU1	Natural gas	lb/MMscf	26.64	114.74	14.34	4.39		
	No. 2 fuel oil	lb/Mgal	3.66	15.36	4.93	4.32	0.0004	0.88
EU2 and EU3	Natural gas	lb/MMscf	5.79	84.44	4.98			
	No. 2 fuel oil	lb/Mgal	0.67	11.56	1.99	1.07	0.0004	0.90

- iii. The Permittee shall make and keep records as described, for a minimum of five years commencing on the date such records were created.
[Permit Nos. 213-0029, 213-0031 and 213-0032]

d. *Reporting Requirements*

The Permittee shall review all recorded data daily and report to the Department within three working days any exceedance of an allowable emission limit in Section III.A.4.a of this Title V permit.
[Permit Nos. 213-0029, 213-0031 and 213-0032]

5. NO_x

a. *Limitation or Restriction*

EU1: General Electric Turbine [Permit No. 213-0029]

i. Natural gas:

Criteria	lb/hr	lb/MMBtu	ppmvd@15% O ₂	TPY
<u>Pollutant</u>				
NO _x	82.28	0.149	42	309.80

ii. No. 2 fuel oil:

Criteria	lb/hr	lb/MMBtu	ppmvd@15% O ₂	TPY
<u>Pollutant</u>				
NO _x	130.25	0.246	62	486.59

Section III: Applicable Requirements and Compliance Demonstration

- iii. During periods of startup, shut down or malfunction, the ppmvd limits in Sections III.5.a.i and ii in this Title V permit may be exceeded. These periods are defined as follows:

Startup shall be defined as that period of time from initiation of combustion turbine firing until the unit reaches steady-state operation. Startup periods shall not exceed 180 minutes.

Shutdown shall be defined as the period of time from the initial lowering of turbine output to when the combustion process has stopped. Shutdown periods shall not exceed 180 minutes.

Malfunction means any sudden and unavoidable failure of the air pollution control equipment or process equipment or of a process to operate in a normal manner. Failures that are caused entirely or in part by poor maintenance, careless operation or any other preventable condition or breakdown shall not be considered malfunctions. Malfunction periods shall not exceed 180 minutes.

EU2 and EU3: Two Nebraska Boilers [Permit Nos. 213-0031 and 0032]

Note: Allowable emissions are per boiler.

- iv. Natural gas:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
NO _x	19.54	0.110	29	85.59

- v. No. 2 fuel oil:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
NO _x	34.02	0.20	52	149.01

EU1, EU2 and EU3: General Electric Turbine and Two Nebraska Boilers [Permit Nos. 213-0029, 0031 and 0032]

Note: Total allowable emissions are for a combination of the combustion turbine (Permit No. 213-0029) and the equivalent of one boiler (Permit Nos. 213-0031 and 213-0032) on either fuel.

- vi. Total Allowable Emissions

Criteria	
<u>Pollutant</u>	<u>TPY</u>
NO _x	635.6

- vii. Any of the two Nebraska boilers and/or the General Electric turbine shall be shutdown when 24 consecutive one hour block averages are greater than the limits for NO_x in Section III.5.a.i or ii of this Title V permit. [Permit Nos. 213-0029, 213-0031 and 213-0032]

b. Monitoring and Testing Requirements

- i. All NO_x emission rates shall be verified using CEM data based on a one hour block average and parametric monitoring. [Permit Nos. 213-0029, 213-0031 and 213-0032]
- ii. The Permittee shall comply with the monitoring requirements of 40 CFR Part 60 Subpart Db. This requirement applies to the two Nebraska boilers only. [Permit Nos. 213-0031 and 213-0032]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall comply with the monitoring requirements of 40 CFR Part 60 Subpart GG. EPA, in a letter dated May 3, 1996, granted the Permittee an Alternative Monitoring Plan to estimate NOx emission and to monitor the nitrogen content of the fuel from the GE turbine. [Permit No. 213-0029]
Note: This requirement applies to the General Electric turbine only.

c. *Record Keeping Requirements*

- i. The Permittee shall use the following emission factors (BACT Determination) to show compliance with the limits of Section III.A.5.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

Emission Factors for EU1, EU2 and EU3			
Emissions Unit	Fuel	Emission Factor Unit	NOx
EU1	Natural gas	lb/MMscf	152.64
	No. 2 fuel oil	lb/Mgal	34.68
EU2 and EU3	Natural gas	lb/MMscf	113.32
	No. 2 fuel oil	lb/Mgal	28.20

- ii. The Permittee shall make and keep records as described, for a minimum of five years commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]

d. *Reporting Requirements*

- i. The Permittee shall review all recorded data daily and report to the Department within three working days any exceedance of an allowable emission limit in Section III.A.5.a of this Title V permit. [Permit Nos. 213-0029, 213-0031 and 213-0032]
- ii. The Permittee shall provide reports specified in the Department’s CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted by the 30th day following the end of the calendar quarter. [Permit Nos. 213-0029, 213-0031 and 213-0032]
- iii. The Permittee shall submit to the Department a quarterly summary and excess emissions report as specified in 40 CFR §60.49b. [Permit Nos. 213-0031 and 213-0032]
Note: This condition only applies to the Two Nebraska boilers.

6. NOx Trading Agreement and Order 8319

Expiration date: December 31, 2016

Note: This TA&O applies only to EU1: General Electric turbine – Permit No. 213-0029.

a. *Limitation or Restriction*

- i. Fuel Types: Natural gas and No. 2 fuel oil
- ii. Maximum Heat Input:
Natural gas: 555.2 MMBtu
No. 2 fuel oil: 529.5 MMBtu

Section III: Applicable Requirements and Compliance Demonstration

- iii. Allowable NO_x Emission Limit During the Non-Ozone Season: 0.15 lbs/MMBtu
- iv. Ozone Season Fuel Use Restriction: The Permittee shall operate the General Electric turbine while firing or co-firing the lowest NO_x emitting fuel type or combination of fuel types that it is authorized to burn in accordance with Departmental permit, registration, or applicable regulation. [TA&O 8319 (B)(5)]
- v. During the Ozone Season, the Permittee may operate the General Electric turbine on fuels that result in higher emissions of NO_x, if either: [TA&O 8319 (B)(6)(a) thru (c)]
 - (A) the availability of the fuel oil that complies with Section III.6.a.(iv) of this Title V permit is inadequate to meet the needs of residential, commercial and industrial users in this state and that such inadequate supply constitutes an emergency;
 - (B) the supply of gaseous fuels to the emission units is interrupted due to inadequate supply or in accordance with an interruptible supply agreement between the Permittee and the gaseous fuel supplier; or
 - (C) the purchase of the lowest NO_x emitting fuel type will prevent the unit from responding to an ISO-NE dispatch directive on a timely basis under an emergency power shortage event in Connecticut or the ISO-NE region.

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the following: [TA&O 8319 (B)(11)(d)(i) thru (iv)]
 - (A) Demonstration that any maintenance, tune-up, and/or inspection activity performed on the General Electric turbine has been performed in accordance with the manufacturer's specifications or current good engineering practice.
 - (B) The date and a description of any maintenance, tune-up, and/or inspection activity performed on the General Electric turbine.
 - (C) The name, title and affiliation of the person conducting any maintenance, tune-up, and/or inspection activity performed on the General Electric turbine.
 - (D) The operating parameters of the emission unit used to determine that the emission unit is operating in accordance with the manufacturer's specification or current good engineering practice prior to and after any adjustment are made during maintenance, tune-up, or inspection.
- ii. No more than 30 days after the completion of each Non-Ozone Season, the Permittee shall record the Non-Ozone Season average NO_x emission rate for EU1, the quantity of DERCs and/or allowances possessed on the first day of the Non-Ozone Season, and the quantity of DERCs deducted and/or Allowances transferred. [TA&O 8319 (B)(12)(a)]

Section III: Applicable Requirements and Compliance Demonstration

- iii. On each day, during the Ozone Season, that the Permittee operates the General Electric turbine as described in Section III.6.a.iv of this Title V permit, the Permittee shall make and keep records of all written correspondence demonstrating that operations are due to one or more of the factors described in such section. [TA&O 8319 (B)(12)(b)]
- iv. The Permittee shall keep records and supporting documentation required by TA&O 8319 and this Title V permit for a minimum of five years, commencing on the date such records were created. [TA&O 8319 (B)(13)]

d. Reporting Requirements

Not later than July 30th of each calendar year, the Permittee shall submit a written report containing copies of all records required by TA&O 8319. The commissioner may prescribe the forms to be used for the submission of these reports. The Permittee shall submit these reports on such forms, if prescribed by the commissioner. [TA&O 8319 (B)(14)]

7. SOx

EU1: General Electric Turbine [Permit No. 213-0029]

a. Limitation or Restriction

i. Natural gas:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>TPY</u>	
SOx	0.32	0.00058	1.21	

ii. No. 2 fuel oil:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
SOx	148.26	0.28	52	553.841

EU2 and EU3: Two Nebraska Boilers [Permit Nos. 213-0031 and 213-0032]

Note: The allowable emissions are for each boiler.

iii. Natural gas:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
SOx	0.10	0.00058	0.11	0.44

iv. No. 2 fuel oil:

Criteria				
<u>Pollutant</u>	<u>lb/hr</u>	<u>lb/MMBtu</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
SOx	47.63	0.28	53	208.611

Section III: Applicable Requirements and Compliance Demonstration

EU1, EU2 and EU3: General Electric Turbine and Two Nebraska Boilers
[Permit Nos. 213-0029, 213-0031 and 213-0032]

Note: Total allowable emissions are for a combination of the combustion turbine (Permit No. 213-0029) and the equivalent of one boiler (Permit Nos. 213-0031 and 213-0032) on either fuel.

- v. Total Allowable Emissions

Criteria	
<u>Pollutant</u>	<u>TPY</u>
SOx	762.45

- b. *Monitoring and Testing Requirements*

The Permittee shall use CEM data based on 1 hour block averages for demonstrating compliance while firing No. 2 fuel oil. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. *Record Keeping Requirements*

- i. The Permittee shall calculate and record the monthly and consecutive 12 month SOx 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. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall use the following emission factors to show compliance with the limits of Section III.7.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

Emission Factors for EU1, EU2 and EU3			
Emissions Unit	Fuel	Emission Factor Unit	SOx
EU1	Natural gas	lb/MMscf	0.59
EU2 and EU3	Natural gas	lb/MMscf	0.58

- iii. The Permittee shall make and keep records as described, for a minimum of five years commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]

- d. *Reporting Requirements*

- i. Provide reports specified in the Department’s CEM Guideline dated 8/19/96 on a quarterly basis. The report shall be submitted by the 30th day following the end of the calendar quarter. [Permit Nos. 213-0029, 213-0031 and 213-0032]
- ii. The Permittee shall submit to the Department a quarterly summary and excess emissions report as specified in 40 CFR §60.49b. [Permit Nos. 213-0031 and 213-0032]

Section III: Applicable Requirements and Compliance Demonstration

8 O₂

a. *Limitations or Restrictions*

EU1, EU2 and EU3: No limit. [Permit Nos. 213-0029, 213-0031 and 213-0032]

b. *Monitoring and Testing Requirements*

The Permittee shall monitor the O₂ concentration of the exhaust gas using CEM based on a 1 hour block average. [Permit Nos. 213-0029, 213-0031 and 213-0032]

c. *Record Keeping Requirements*

In accordance with Section VI.F of this Title V permit, the Permittee shall make and maintain records of the O₂ content CEM data for a minimum of five years, commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]

d. *Reporting Requirements*

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

B. EMISSIONS UNIT 7 (EU7): Solar Gas Turbine Model Titan 130 operating under Permit No. 213-0116 and subject to 40 CFR Part 60 Subpart KKKK

1. Fuel Type, Sulfur Content and Limitation

a. *Limitation or Restriction*

- i. Fuel Type: Natural gas [Permit No. 213-0116]
- ii. Fuel Sulfur Content: shall not exceed 20 gr/100 scf [40 CFR §60.4365(a)]
- iii. Maximum Fuel Consumption over any Consecutive 12 Month Period: 1,516 MMcf [Permit No. 213-0116]

b. *Monitoring and Testing Requirements*

- i. The Permittee shall use an individual non-resettable totalizing fuel metering device or billing meter to continuously monitor fuel feed to the turbine. [Permit No. 213-0116]
- ii. The Permittee shall comply with the monitoring requirements of 40 CFR Part 60 Subpart KKKK by contractually limiting the maximum sulfur content of natural gas. [40 CFR §60.4365(a)]

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. [Permit No. 213-0116]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall maintain a valid natural gas purchase contract that specifies the maximum sulfur content for natural gas. [40 CFR §60.4365(a)]
- iii. The Permittee shall keep records of all exceedances of any operating parameter. Such records shall include: [Permit No. 213-0116]
 - (A) the date and time of the exceedance,
 - (B) a detailed description of the exceedance, and
 - (C) the duration of the exceedance.
- iv. The Permittee shall keep all records required by Section III.B.1.c of this Title V permit for a period of no less than five years and shall submit them upon request. [Permit No. 213-0116]

d. Reporting Requirements

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 preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [Permit No. 213-0116]

For an operating parameter, no later than ten days after such exceedance commenced.

2. PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, CO, GHG and Ammonia

a. Limitation or Restriction

- i. In the event that a malfunction causing either an emissions exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of the turbine. [Permit No. 213-0116]

ii. Criteria

<u>Pollutant</u>	<u>lb/hr</u>	<u>ppmvd@15% O₂</u>	<u>TPY</u>
PM ₁₀ /PM _{2.5}	2.66		11.9
SO ₂	1.59		7.0
NO _x	3.22	5.0	14.2
VOC	2.39		10.9
CO	2.37	6.0	17.3
GHG			91,323

Non-Criteria

<u>Pollutants</u>	<u>ppmvd@15% O₂</u>
Ammonia	5.0

- iii. Injection rate of ammonia (lb/hr) shall be within the ranges recommended by the manufacturer. [Permit No. 213-0116]
- iv. NO_x:
Startup limit: 13.8 lb/event
Shutdown limit: 6.0 lb/event.
CO:
Startup limit: 740 lb/event
Shutdown limit: 405 lb/event.

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring and Testing Requirements

- i. The Permittee shall continuously monitor the SCR ammonia injection rate (lb/hr).
[Permit No. 213-0116]
- ii. Recurrent performance stack testing for NO_x shall be performed to demonstrate compliance with the NO_x emission limits in accordance with 40 CFR §§60.4340 and 60.4400.
[Permit No. 213-0116 and 40 CFR Part 60 Subpart KKKK]
- iii. Recurrent stack testing for VOC, CO and ammonia shall be conducted within five years from the date of the previous stack test to demonstrate compliance with their respective limits.
[Permit No. 213-0116]

c. Record Keeping Requirements

- i. The Permittee shall use emission factors to show compliance with the limits of Section III.B.2.a of this Title V permit as follows: [Permit No. 213-0116]
 - (A) PM₁₀/PM_{2.5}: Manufacturer's data
 - (B) SO₂: Compilation of Air Pollutant Emission Factors, AP42, 5th Edition, Section 3.1, April 2000
 - (C) GHG: 40 CFR Part 98, Tables A-1, C-1 and C-2. [40 CFR §98.33]
 - (D) NO_x, VOC, CO and ammonia: stack testing data
- ii. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀, PM_{2.5}, GHG, SO₂, VOC, CO, NO_x and ammonia 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. Emissions during startup and shutdown shall be counted towards the annual emission limitations in Section III.B.2.a of this Title V permit.
[Permit No. 213-0116 and RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall keep records of all exceedances of any operating parameter. Such records shall include: [Permit No. 213-0116]
 - (A) the date and time of the exceedance,
 - (B) a detailed description of the exceedance, and
 - (C) the duration of the exceedance.
- iv. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbine and any malfunction of the air pollution control equipment [40 CFR §60.7(b)]. Such records shall contain the following information:
[Permit No. 213-0116]
 - (A) type of event (startup, shutdown, or malfunction),

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- (B) equipment affected,
 - (C) date of event,
 - (D) duration of event (minutes),
 - (E) fuel being used during event, and
 - (F) total NOx and CO emissions emitted (lb) during the event.
- v. The Permittee shall keep records of each delivery of anhydrous ammonia. The records shall include the date of delivery, the name of the supplier and the quantity of anhydrous ammonia delivered. [Permit No. 213-0116]
 - vi. The Permittee shall continuously record the SCR ammonia injection rate (lb/hr). [Permit No. 213-0116]
 - vii. The Permittee shall keep all records required by Section III.B.2.c this Title V permit for a period of no less than five years and shall submit them upon request. [Permit No. 213-0116]

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 preventive measures taken with respect thereto, and the dates of such actions and measures as follows: [Permit No. 213-0116]
 - (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.

3. Opacity

a. Limitation or Restriction

Opacity shall be no greater than 10% over any six minute block average. [Permit No. 213-0116]

b. Monitoring and Testing Requirements

If required by the commissioner, the Permittee shall measure opacity using 40 CFR, Appendix A, Reference Method 9. [Permit No. 213-0116]

c. Record Keeping Requirements

The Permittee shall maintain records of the opacity tests required in Section III.B.3b of this Title V permit. Such records shall include the dates, times, and places of all visible observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA §22a-174-33(j)(1)(K)]

Section III: Applicable Requirements and Compliance Demonstration

C. Clean Air Interstate Rule (CAIR)

The General Electric Turbine (EU1) is a CAIR NO_x Ozone season unit and therefore is 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.

D. PREMISES-WIDE GENERAL REQUIREMENTS

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. **Variations:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
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.

Section III: Applicable Requirements and Compliance Demonstration

- 14. Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
- 15. 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).
- 16. 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.

State Enforceable Terms and Conditions

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

Section V: State Enforceable Terms and Conditions

State Enforceable Terms and Conditions

- 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: The Permittee shall not use No. 2 heating oil that exceeds the sulfur content percentages by weight as set forth in CGS §16a-21a.
- I.** The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

Section VI: Title V Requirements

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

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: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA-New England, Region 1; 5 Post Office Square, Suite 100; Boston, Massachusetts 02109-3912.

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:

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

Section VI: Title V Requirements

Title V Requirements

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.

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;

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

This Title V permit shall not be deemed to:

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

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

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

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.

Section VI: Title V Requirements

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

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

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

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

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

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.

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).

Section VI: Title V Requirements

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.