



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.

<b>Title V Permit Number</b>	089-0066-TV
<b>Client/ Sequence /Town/Premises Numbers</b>	5246/01/089/0065
<b>Date Issued</b>	August 20, 2012
<b>Expiration Date</b>	August 20, 2017

**Corporation:**

*Frito-Lay, Inc.*

**Premises Location:**

*1886 Upper Maple Street, Killingly, Connecticut 06241*

**Name of Responsible Official and Title:**

*Jeff Wadsworth, NE Region Supply Chain VP*

All the following attached pages, 2 through 44, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for  
Daniel C. Esty  
Commissioner

August 20, 2012  
Date

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## LIST OF ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
%	Percent
°F	Degree Fahrenheit
acfm	Actual cubic feet per minute
API	American Petroleum Institute
AP-42	Compilation of Air Pollutant Emissions Factors
ASC	Actual Stack Concentration
ASTM	American Society for Testing and Materials
cf	Cubic Feet
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CHP	Combined Heat and Power
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Unit
gph	Gallons per hour
gr/acf	Grains per actual cubic foot
HAP	Hazardous Air Pollutant
hr	Hour
ISO	International Organization for Standardization
lb	Pound
MASC	Maximum Allowable Stack Concentration
MMBtu	Million British Thermal Units of Heat Input
MMcf	Million Cubic Feet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NH <sub>3</sub>	Ammonia
No.	Number
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
O <sub>2</sub>	Oxygen
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 microns
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SOS	Standard Operating Scenario
SO <sub>x</sub>	Sulfur Oxides
tpy	Tons per year
TSP	Total Suspended Particulate
µg/m <sup>3</sup>	Micrograms per cubic meter
VOC	Volatile Organic Compound

## **Title V Permit**

**All conditions in Sections III, IV, VI and VII 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, VI and VII of this Title V permit in accordance with the Clean Air Act, as amended.**

## Section I: Premises Information/Description

### A. PREMISES INFORMATION

Nature of Business: Snackfood Products Manufacturer

Primary SIC: 2096

Other SIC: Not Applicable

Facility Mailing Address: 1886 Upper Maple Street, Killingly, CT 06241

Telephone Number: (860) 779-0200

### B. PREMISES DESCRIPTION

Frito-Lay, Inc. manufactures snack food products at their facility in Dayville (Killingly), CT. Raw material is received by the plant and stored onsite. The raw material is processed in various snack food production lines, packaged and distributed to off site locations. Process steam is generated by three on-site boilers, and a Solar Combustion Turbine/Duct Burner cogeneration system, with each boiler vented to a common stack, equipped with an economizer, and the cogeneration system (CHP plant) vented to its own dedicated stack. Furthermore, a portion of hot (pre-treated) exhaust gas from the cogeneration system is diverted to the plant's starch dryers to be used as an alternate source of heat. The boilers are primarily fueled by natural gas and the cogeneration system is fueled exclusively by natural gas. The boilers also have the capability to utilize Number 6 fuel oil and Number 2 fuel oil as back-up fuels, respectively.

Frito-Lay's Cogeneration system (EU-011) is subject to the NSPS for Stationary Combustion Turbines (40 CFR Part 60 Subpart KKKK) since the unit is a stationary combustion turbine with a heat input at peak load greater than 10 MMBtu/hr and it was constructed after February 18, 2005. The three on-site boilers (GEU-003) are subject to the NESHAP for Area Sources: Industrial, Commercial and Institutional Boilers and Process Heaters (40 CFR Part 63 Subpart JJJJJ) since the boilers are industrial boilers located at an area source of HAPs.

In addition to the boilers and cogeneration system, other potential sources of emissions are generated by process cookers, process ovens, a process cooler, a process popper, starch dryers, grain handling operations, emergency engines, a vaporizer and furnaces. The emergency engines (GEU-004) are subject to the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ) since the engines are stationary reciprocating internal combustion engines located at an area source of HAPs.

Operating hours for the facility are 24 hours per day and 365 days per year.

## Section II: Emissions Unit 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 Registrations into this Title V permit.

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>				
<b>Emissions Unit</b>		<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order, Registration, or Regulation Number</b>
GEU-001 Potato Lines	EU-001	Line No. 1 Cooker	Oil Mist Eliminator	NSR Permit No. 089-0012
	EU-002	Line No. 2 Cooker	Oil Mist Eliminator	NSR Permit No. 089-0028
GEU-002 Starch Dryers	EU-004	Starch Dryer No. 1	Baghouse, Cyclone	NSR Permit No. 089-0039
	EU-032	Starch Dryer No. 2	Baghouse, Cyclone	NSR Permit No. 089-0106
GEU-003 Boilers	EU-008	Boiler No. 1	None	NSR Permit No. 089-0025 40 CFR Part 63 Subpart JJJJJ
	EU-009	Boiler No. 2	None	NSR Permit No. 089-0026 40 CFR Part 63 Subpart JJJJJ
	EU-010	Boiler No. 3	None	NSR Permit No. 089-0027 40 CFR Part 63 Subpart JJJJJ
EU-011		Cogeneration System	SoloNOx, SCR	NSR Permit No. 089-0105 40 CFR Part 60 Subpart KKKK
GEU-004 Emergency Engines	EU-017	Fire Pump No. 1	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
	EU-018	Fire Pump No. 2	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
	EU-019	Emergency Engine	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
<i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this Title V permit:</i>				
EU-003		Line No. 3 Cooker	Oil Mist Eliminator	None
EU-005		Grain Handling - Receiving/Storage	Choke Feeding, Enclosed Receiving Area	None
EU-006		Grain Handling - Transfer	Baghouse	None

## Section II: Emissions Unit Information

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order, Registration, or Regulation Number</b>
EU-007	Grain Handling - Cleaning	Cyclone	None
EU-012a	Line No. 4 Cooker	Oil Mist Eliminator	None
EU-012b	Line No. 4 Oven	None	None
EU-013a	Line No. 5 Cooker	Oil Mist Eliminator	None
EU-013b	Line No. 5 Oven A	None	None
EU-013c	Line No. 5 Oven B	None	None
EU-014a	Line No. 6 Cooker	Oil Mist Eliminator	None
EU-014b	Line No. 6 Oven A	None	None
EU-014c	Line No. 6 Oven B	None	None
EU-014d	Line No. 6 Cooler	None	None
EU-015	Pump House No. 1 Propane Heater	None	None
EU-016a	Line No. 8 Toast Oven	None	None
EU-016b	Line No. 8 Fryer	None	None
EU-016c	Line No. 8 Primary Dryer	None	None
EU-016d	Line No. 8 Secondary Dryer	None	None
EU-020	Logistics Furnace No. 1	None	None
EU-021	Logistics Furnace No. 2	None	None
EU-022	Propane Vaporizer	None	None
EU-023a	Line No. 7 Popper	None	None
EU-023b	Line No. 7 Sifter	Dust Collector	None
EU-023c	Line No. 7 Seasoner	None	None
EU-024	(20,000 gallon) No. 2 Fuel Oil Tank	None	None

**Section II: Emissions Unit Information**

<b>TABLE II.A: EMISSIONS UNITS DESCRIPTION</b>			
<b>Emissions Unit</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order, Registration, or Regulation Number</b>
EU-025	(30,000 gallon) No. 6 Fuel Oil Tank No. 1	None	None
EU-026	(30,000 gallon) No. 6 Fuel Oil Tank No. 2	None	None
EU-027	(30,000 gallon) No. 6 Fuel Oil Tank No. 3	None	None
EU-028	Cold Cleaner No. 1	None	None
EU-029	Cold Cleaner No. 2	None	None
EU-030	Cold Cleaner No. 3	None	None
EU-031	Cold Cleaner No. 4	None	None

## Section II: Emissions Unit Information

### B. OPERATING SCENARIO IDENTIFICATION

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

<b>TABLE II.B: OPERATING SCENARIO IDENTIFICATION</b>		
<b>Identification of Operating Scenarios</b>	<b>Emissions Units Associated with the Scenarios</b>	<b>Description of Scenarios</b>
SOS	All Emissions Units	The standard operating scenario covers all operations involved in the manufacture of snack food products. This includes the generation of process steam by three on-site boilers and a cogeneration system, which are fueled by natural gas and fuel oil Nos. 2 and 6, and natural gas only, respectively, and the operation of process lines (comprised of cookers, ovens, a cooler, a popper), starch dryers, grain handling operations, furnaces, emergency engines, cold cleaners and a vaporizer in accordance with applicable permitted or allowed operating conditions.

### **Section III: Applicable Requirements and Compliance Demonstration**

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

#### **A. GEU-001-POTATO LINES [LINE COOKERS NO. 1 (EU-001) AND 2 (EU-002)]**

##### **1. Raw Material Input**

###### **a. Limitations and Restrictions**

- i. The Permittee shall use no more than 768,000 lb/day of raw potatoes and no more than 77,000 lb/day of vegetable oil on each line cooker. [NSR Permit Nos. 089-0012 and 089-0028]

###### **b. Monitoring and Testing Requirements**

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

###### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the daily material input amounts to each line cooker, determined by dividing the monthly totals by the number of days operated during the month. [NSR Permit Nos. 089-0012 and 089-0028]
- ii. The Permittee shall make and keep records as described, for a minimum of five years commencing on the date such records were created. [Section VII.F of this Title V permit]

###### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with Sections VII.E of this Title V permit. [Section VII.E of this Title V permit]

##### **2. TSP**

###### **a. Limitations and Restrictions**

- i. The TSP emissions shall not exceed:
  - (A) 2.1 lb/hr and 9.2 tpy (for EU-001). [NSR Permit No. 089-0012]
  - (B) 2.5 lb/hr and 10.95 tpy (for EU-002). [NSR Permit No. 089-0028]

###### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate particulate emissions using a DEEP approved emissions factor. The Permittee shall determine compliance with the particulate emissions limitation by monitoring the average pounds of finished product per 28-day period (on an hourly basis) and multiplying this by the emissions factor. [RCSA Section 22a-174-33(j)(1)(K)(ii)]

### **Section III: Applicable Requirements and Compliance Demonstration**

- ii. Annual emissions shall be verified by the Permittee, by adding the current 28-day period's emissions (in tons per period) to the previous 12 (28-day) periods' emissions. The Permittee shall account for annual emissions based on a 365-day calendar year by adding a day to the total 364-day (28-day, 13-period) year by either taking the first day from the next year's first 28-day period or taking the last day from the previous year's last 28-day period depending how it falls on the calendar year. [RCSA Section 22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall install and operate three (for EU-001)/two (for EU-002) oil mist eliminators capable of achieving a minimum 70% efficiency in reducing TSP emissions. [NSR Permit Nos. 089-0012 and 089-0028]
- iv. The Permittee shall clean the oil mist eliminator pads on a weekly basis to remove accumulated vegetable oil collected during operation of the system. The oil mist eliminator pads must be replaced prior to deterioration of the wire mesh. Maintenance of the fan shall be performed to assure that it maintains sufficient air flow through the oil mist eliminators. [NSR Permit Nos. 089-0012 and 089-0028]
- v. Line Cooker No. 2's (EU-002) salter hood vent must be operated at all times with a Rotoclone Scrubber. The Rotoclone Scrubber shall have a minimum removal efficiency of 75%. [NSR Permit No. 089-0028]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the hourly TSP emission limits for each unit. [Section VII.F of this Title V permit]
- ii. The Permittee shall maintain records of the 28-day period TSP emissions (in tons per period) and a rolling 13-period TSP (in tons per 13-period) emissions summary. [Section VII.F of this Title V permit]
- iii. The Permittee shall maintain records of the daily, weekly or as required maintenance performed on the oil mist eliminators. [NSR Permit Nos. 089-0012 and 089-0028]
- iv. The Permittee shall make and keep records as described, for a minimum of five years commencing on the date such records were created. [Section VII.F of this Title V permit]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with Sections VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **3. VOC**

#### **a. Limitations and Restrictions**

- i. The VOC emissions shall not exceed 0.08 lb/hr and 0.35 tpy for each line cooker. [NSR Permit Nos. 089-0012 and 089-0028]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate VOC emissions using a DEEP approved emissions factor. The Permittee shall determine compliance with the VOC emissions limitation by monitoring the average pounds of finished product per 28-day period (on an hourly basis) and multiplying this by the emissions factor. [RCSA Section 22a-174-33(j)(1)(K)(ii)]
- ii. Annual emissions shall be verified by the Permittee, by adding the current 28-day period's emissions (in tons per period) to the previous 12 (28-day) periods' emissions. The Permittee shall account for annual emissions based on a 365-day calendar year by adding a day to the total 364-day (28-day, 13-period) year by either taking the first day from the next year's first 28-day period or taking the last day from the previous year's last 28-day period depending how it falls on the calendar year. [RCSA Section 22a-174-33(j)(1)(K)(ii)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the hourly VOC emission limits for each unit. [Section VII.F of this Title V permit]
- ii. The Permittee shall maintain records of the 28-day period VOC emissions (in tons per period) and a rolling 13-period VOC (in tons per 13-period) emissions summary. [Section VII.F of this Title V permit]
- iii. The Permittee shall maintain records as described, for a minimum of five years commencing on the date such records were created. [Section VII.F of this Title V permit]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with Sections VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **B. GEU-002-STARCH DRYERS [DRYERS NO. 1 (EU-004) AND 2 (EU-032)]**

#### **1. Material and Heat Input**

##### **a. Limitations and Restrictions**

- i. The Permittee shall process no more than 3,000 lb/hr of raw material (starch, on a dry basis) on Starch Dryer Nos. 1 and 2 combined. [NSR Permit Nos. 089-0039 and 089-0106]
- ii. Starch Dryer No. 1 (EU-004) shall only use a steam heat exchanger and hot (pre-treated) exhaust gas from Frito-Lay's CHP plant as its sources of heat. [NSR Permit No. 089-0039]
- iii. Starch Dryer No. 2 (EU-032) shall only use a direct-fired natural gas burner and hot (pre-treated) exhaust gas from Frito-Lay's CHP plant as its sources of heat. [NSR Permit No. 089-0106]
- iv. The maximum natural gas fuel consumption over any consecutive 12-month period for Starch Dryer No. 2's direct-fired burner shall not exceed 20.6 MMcf. [NSR Permit No. 089-0106]

### **Section III: Applicable Requirements and Compliance Demonstration**

- v. The inlet air temperature (for each starch dryer) shall be at a minimum 200°F. [NSR Permit Nos. 089-0039 and 089-0106]
- vi. The maximum total exhaust flow rate (for the CHP's (pre-treated) exhaust going into both starch dryers combined) shall not exceed 8,400 acfm. [NSR Permit Nos. 089-0039 and 089-0106]
- vii. The exhaust (going into each starch dryer) shall be as treated by the CHP's emissions control systems. [NSR Permit Nos. 089-0039 and 089-0106]

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall install, calibrate, maintain and operate a temperature measuring device to continuously monitor and periodically record the Inlet Air temperature. [NSR Permit Nos. 089-0039 and 089-0106]
- ii. The Permittee shall install, calibrate, maintain and operate a flow meter to continuously monitor and continuously record the (total) flow rate of the CHP plant's exhaust going into both dryers [NSR Permit Nos. 089-0039 and 089-0106]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records of the daily, 28-day period and consecutive 13 (28-day) periods' quantity of material (starch on a dry basis) processed. The consecutive 13 (28-day) periods' quantity of material processed shall be calculated by adding the current 28-day period's quantity of material processed to that of the previous 12 (28-day) periods. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period.[NSR Permit Nos. 089-0039 and 089-0106]
- ii. The Permittee shall make and keep records of monthly and consecutive 12-month fuel consumption (for Starch Dryer No. 2's burner). 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. [NSR Permit No. 089-0106]
- iii. The Permittee shall keep all records required by NSR Permit Nos. 089-0039 and 089-0106 for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit Nos. 089-0039 and 089-0106]

#### **d. Reporting Requirements**

- i. Reports of any exceedances of material usage, set forth in NSR Permit Nos. 089-0039 and 089-0106, shall be submitted to the Commissioner in writing within 30 days of the date of such exceedance. Such report shall at a minimum, include a description of the nature of the exceedance, the duration and magnitude of the exceedance, the steps taken to reestablish compliance and the success of such steps, and the steps taken to assure that compliance is maintained in the future. [NSR Permit Nos. 089-0039 and 089-0106]
- ii. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

## Section III: Applicable Requirements and Compliance Demonstration

### 2. Criteria Pollutants and Ammonia Emissions

#### a. Limitations and Restrictions

- i. The Permittee shall not cause or allow the two starch dryers to exceed the combined emissions limits stated herein [NSR Permit Nos. 089-0039 and 089-0106]:
  - (A) PM<sub>10</sub>/PM<sub>2.5</sub> - 0.108 lb/hr, 0.0015 gr/acf and 0.48 tpy.
  - (B) SO<sub>x</sub> - 0.009 lb/hr and 0.04 tpy.
  - (C) NO<sub>x</sub> - 0.165 lb/hr and 0.72 tpy.
  - (D) VOC - 0.174 lb/hr and 0.76 tpy.
  - (E) CO - 1.554 lb/hr and 6.80 tpy.
  - (F) NH<sub>3</sub> - 0.252 lb/hr and 1.10 tpy.

#### b. Monitoring and Testing Requirements

- i. The Permittee shall demonstrate compliance with criteria pollutants and ammonia emissions limits (listed in Section III.B.2.a.i of this Title V permit) by calculating emissions rates using emissions factors from the following sources: Scaled from the CHP Plant Permit; NSR Permit No. 089-0105 (for ammonia and all criteria pollutants except PM<sub>10</sub>/PM<sub>2.5</sub>), AP-42, fifth edition, Section 1.4, July 1998 (for SO<sub>x</sub>, VOC and CO), manufacturer's data (for NO<sub>x</sub>), and initial stack test results (for PM<sub>10</sub>/PM<sub>2.5</sub>). This shall not preclude the Commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit Nos. 089-0039 and 089-0106]
- ii. The Permittee shall calculate the 28-day period and consecutive 13 (28-day) periods' PM<sub>10</sub>/PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC, and NH<sub>3</sub> emissions in units of tons. The consecutive 13 (28-day) periods' emissions shall be determined by adding (for each pollutant) the current 28-day period's emissions to that of the previous 12 (28-day) periods. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period. [NSR Permit Nos. 089-0039 and 089-0106]
- iii. The Permittee shall conduct an initial PM<sub>2.5</sub> performance stack test in accordance with the specifications listed in NSR Permit Nos. 089-0039 and 089-0106. [NSR Permit Nos. 089-0039 and 089-0106]
- iv. The Permittee shall install, calibrate, maintain and operate a bag leak detection system with alarm (visual), according to manufacturer's written instructions. [NSR Permit Nos. 089-0039 and 089-0106]
- v. The Permittee shall operate and maintain the starch dryers in accordance with the manufacturer's specifications and written recommendations. [NSR Permit Nos. 089-0039 and 089-0106]

### **Section III: Applicable Requirements and Compliance Demonstration**

- vi. The Permittee shall properly operate the control equipment at all times that the starch dryers are in operation and emitting air pollutants. [NSR Permit Nos. 089-0039 and 089-0106]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the short-term emission limits listed in Section III.B.2.a.i of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall maintain records of the 28-day period and consecutive 13 (28-day) periods' PM<sub>10</sub>/PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC, and NH<sub>3</sub> emissions in units of tons. Such records shall include a sample calculation for each pollutant. [NSR Permit Nos. 089-0039 and 089-0106]
- iii. The Permittee shall make and keep records of the date and time the bag leak detector alarms, the cause, any corrective actions taken in response to the alarm, and the name of the person making the entry. [NSR Permit Nos. 089-0039 and 089-0106]
- iv. The Permittee shall keep records demonstrating that the starch dryers' control equipment was designed in accordance with the specifications listed in NSR Permit Nos. 089-0039 and 089-0106. [NSR Permit Nos. 089-0039 and 089-0106]
- v. The Permittee shall keep all records required by NSR Permit Nos. 089-0039 and 089-0106 for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit Nos. 089-0039 and 089-0106]

#### **d. Reporting Requirements**

- i. Reports of any exceedances of any emissions limitations, set forth in NSR Permit Nos. 089-0039 and 089-0106, shall be submitted to the Commissioner in writing within 30 days of the date of such exceedance. Such report shall at a minimum, include a description of the nature of the exceedance, the duration and magnitude of the exceedance, the steps taken to reestablish compliance and the success of such steps, and the steps taken to assure that compliance is maintained in the future. [NSR Permit Nos. 089-0039 and 089-0106]
- ii. The Permittee shall submit results of the performance stack test required in Section III.B.2.b.iii of this Title V permit within 45 days after testing has been completed. [NSR Permit Nos. 089-0039 and 089-0106]
- iii. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **3. MASC**

#### **a. Limitations and Restrictions**

- i. The dryers shall not cause an exceedance of the Maximum Allowable Stack Concentration for any HAP emitted by the units and listed in RCSA §22a-174-29. [RCSA §22a-174-29]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate the ASC and MASC for any HAP emitted by the dryers and listed in RCSA §22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-33(j)(1)(K)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the calculations specified in condition B.3.b.i (of Section III) of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall retain all such records and supporting documentation for a minimum of five years, commencing on the date such record was created. [RCSA §22a-174-33(o)(2)]

#### **d. Reporting Requirements**

- i. The Permittee shall, upon written notice by the Commissioner, supply the Commissioner with information, for those time periods specified, concerning the usage of any substances listed in RCSA §22a-174-29 or the emissions of such substances into the ambient air. [RCSA §22a-174-29(f)]

### **C. GEU-003-BOILERS [BOILERS NO. 1 (EU-008), 2 (EU-009), AND 3 (EU-010)]**

#### **1. Fuel Consumption**

##### **a. Limitations and Restrictions**

- i. Boiler Nos. 1, 2, and 3 shall only burn Natural Gas and Oils No. 2 and 6. [NSR Permit Nos. 089-0025 through 089-0027]
- ii. The maximum fuel firing rates for Boiler Nos. 1 (EU-008) and 2 (EU-009) shall (each) not exceed the following limits [NSR Permit Nos. 089-0025 and 089-0026]:
  - (A) 371 gph for Oil No. 2.
  - (B) 344 gph for Oil No. 6.
  - (C) 51,000 cf/hr for Natural Gas.
- iii. The maximum gross heat input for Boiler No. 3 (EU-010) shall not exceed 52.9 MMBtu/hr. [NSR Permit No. 089-027]

##### **b. Monitoring and Testing Requirements**

- i. The Permittee shall verify fuel usage for Boiler Nos. 1, 2, and 3 with a fuel flow monitor, daily (when burning Oils No. 2 and 6), and per 28-day period (when burning Natural Gas). [RCSA Section 22a-174-33(j)(1)(K)]

### **Section III: Applicable Requirements and Compliance Demonstration**

- ii. The Permittee shall base annual fuel usage for Boiler Nos. 1, 2, and 3 by adding the current 28-day period's fuel usage to the previous twelve 28-day periods' fuel usage. [RCSA Section 22a-174-33(j)(1)(K)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall keep records of the daily (for Oils No. 2 and 6), 28-day period (for Natural Gas), and annual fuel usage (for each fuel burned) for Boiler Nos. 1, 2, and 3. [Section VII.F of this Title V permit]
- ii. The Permittee shall retain all records and supporting documentation as described, for a minimum of five years, commencing on the date such record was created. [Section VII.F of this Title V permit]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

## **2. TSP, SO<sub>x</sub>, and NO<sub>x</sub> Emissions**

### **a. Limitations and Restrictions**

- i. Boilers No. 1, 2, and 3 shall each emit no more than 0.10 lb TSP/MMBtu. [RCSA §22a-174-18(e)(1)]
- ii. Emissions from Boiler No. 3 shall not exceed the following limits [NSR Permit No. 089-0027]:
  - (A) TSP - 23.2 tpy (when burning Natural Gas), 22.3 tpy (when burning Oil No. 2), and 22.1 tpy (when burning Oil No. 6)
  - (B) SO<sub>x</sub> - 231.7 tpy (when burning Natural Gas), 245.7 tpy (when burning Oil No. 2), and 243.3 tpy (when burning Oil No. 6)
  - (C) NO<sub>x</sub> - 46.3 tpy (when burning Natural Gas only), and less than 50.0 tpy per calendar year (when burning any combination of Oil Nos. 2 and 6, and Natural Gas) as specified in NSR Permit No. 089-0105.

### **b. Monitoring and Testing Requirements**

- i. The Permittee shall demonstrate compliance with the emissions limits listed in Section III.C.2.a of this Title V permit by calculating emissions rates using the latest version of AP-42 emissions factors. [RCSA Section 22a-174-33(j)(1)(K)(ii)]
- ii. If required by the Commissioner, the Permittee shall measure TSP emissions using Method 5 of 40 CFR 60, Appendix A, or other equivalent EPA approved test method. [RCSA §22a-174-5(e)(2)]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the calculations specified in condition C.2.b.i (of Section III) of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall retain all such records and supporting documentation 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 submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **3. Sulfur Content**

#### **a. Limitations and Restrictions**

- i. The Permittee shall operate Boilers No. 1, 2, and 3 (GEU-003) on fuels with a sulfur content no greater than:
  - (A) 1.0 % by weight, dry basis for Oil No. 6. [RCSA §22a-174-19(a)(2)(i)]
  - (B) 0.3 % by weight, dry basis for Oil No. 2. [CGS §16a-21a]

#### **b. Monitoring and Testing Requirements**

- i. The Commissioner may require the Permittee to perform an analysis for the sulfur content of liquid fuels, which shall be done according to 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**

- i. The Permittee shall maintain, with respect to each shipment of liquid fuel to be used in the emissions units authorized hereunder, a shipping receipt and certification from the fuel supplier certifying the name of the fuel supplier, type of fuel delivered, API gravity of such fuel, the percentage of sulfur in such fuel, by weight (dry basis), and the method used by the fuel supplier to determine the sulfur content of such fuel. These records shall be kept for a minimum of five years commencing from the date such records were created. [RCSA Section 22a-174-19(a)(5)]

#### **d. Reporting Requirements**

- i. The Commissioner may require the Permittee to submit a fuel analysis, results of stack sampling, or both, prepared at the expense of the merchant or user, to ensure compliance with the limitations specified in Section III.C.3.a.i of this Title V permit. Such information shall be submitted to the Commissioner within 30 days of request. [RCSA §22a-174-19(a)(5)]
- ii. The Permittee shall report the average analytical or contractual sulfur content of the fuels burned in Boilers No. 1, 2, and 3 in the annual emissions statement. [RCSA §22a-174-4(d)(1)]

## **Section III: Applicable Requirements and Compliance Demonstration**

### **4. Work Practices and Management Standards**

#### **a. Limitations and Restrictions**

- i. The Permittee shall at all times operate and maintain the boilers (GEU-003), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR Part 63.11205(a)]
- ii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart JJJJJJ. [40 CFR Part 63.11235]

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall conduct a tune-up of each boiler (in GEU-003) biennially as specified in 40 CFR Part 63.11223. [40 CFR Part 63 Subpart JJJJJJ Table 2 (No. 3)]
- ii. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment shall meet the requirements specified in 40 CFR Part 63 Subpart JJJJJJ Table 2. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements specified in Subpart JJJJJJ, satisfies the energy assessment requirement. [40 CFR Part 63 Subpart JJJJJJ Table 2 (No. 4)]
- iii. The Permittee shall demonstrate initial compliance with the aforementioned monitoring and testing requirements, no later than the compliance date specified in 40 CFR Part 63.11196 and according to the applicable provisions in 40 CFR Part 63.7(a)(2). [40 CFR Part 63.11210(c)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall maintain onsite and submit, if requested by the Administrator, a report containing the information specified in 40 CFR Part 63.11223(b)(6). [40 CFR Part 63.11223(b)(6)]
- ii. The Permittee shall maintain all applicable records specified in 40 CFR Part 63.11225(c). These records must be in a form suitable and readily available for expeditious review, and in accordance with 40 CFR Part 63.10(b)(1). [40 CFR Part 63.11225(c) and (d)]
- iii. The Permittee shall keep each record for five years following the date of each recorded action. [40 CFR Part 63.11225(d)]

#### **d. Reporting Requirements**

- i. The Permittee shall submit a signed certification in the Notification of Compliance Status report indicating that an energy assessment of each in boiler in GEU-003 and their energy use systems was completed, and submit, upon request, the energy assessment report.[40 CFR Part 63.11214(c)]

### **Section III: Applicable Requirements and Compliance Demonstration**

- ii. The Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that a tune-up of each boiler in GEU-003 has been conducted. [40 CFR Part 63.11214(b)]
- iii. The Permittee shall submit all applicable notifications listed in 40 CFR Part 63.11225(a) by the dates specified in that section. [40 CFR Part 63.11225(a)]
- iv. The Permittee must prepare (as frequently as and by the date specified in 40 CFR Part 63.11225(b)), and submit to the delegated authority upon request, a compliance certification report containing the information listed in 40 CFR Part 63.11225(b). [40 CFR Part 63.11225(b)]

#### **5. MASC**

##### **a. Limitations and Restrictions**

- i. The boilers (GEU-003) shall not cause an exceedance of the Maximum Allowable Stack Concentration for any HAP emitted by the units and listed in RCSA §22a-174-29 Table 29-1. [RCSA §22a-174-29]

##### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate the ASC and MASC for any HAP emitted by the boilers and listed in RCSA §22a-174-29 Table 29-1. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-33(j)(1)(K)]

##### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the calculations specified in condition C.5.b.i (of Section III) of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall retain all such records and supporting documentation for a minimum of five years, commencing on the date such record was created. [RCSA §22a-174-33(o)(2)]

##### **d. Reporting Requirements**

- i. The Permittee shall, upon written notice by the Commissioner, supply the Commissioner with information, for those time periods specified, concerning the usage of any substances listed in RCSA §22a-174-29 or the emissions of such substances into the ambient air. [RCSA §22a-174-29(f)]

#### **D. EU-011-COGENERATION SYSTEM**

##### **1. Fuel Consumption**

##### **a. Limitations and Restrictions**

- i. The turbine and duct burner (EU-011) shall only burn Pipeline Quality Natural Gas. [NSR Permit No. 089-0105]

### **Section III: Applicable Requirements and Compliance Demonstration**

- ii. The maximum turbine fuel firing rate shall not exceed 62,781 cf/hr. [NSR Permit No. 089-0105]
- iii. The maximum duct burner firing rate shall not exceed 43,419 cf/hr. [NSR Permit No. 089-0105]
- iv. The maximum combined fuel consumption over any consecutive 12-month period shall not exceed 930,312,000 standard cubic feet per year. [NSR Permit No. 089-0105]

#### **b. Monitoring and Testing Requirements**

- i. When more than one fuel supply tank or line is to service the Cogeneration System (EU-011) or when multiple sources are supplied by one fuel tank or line, the Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed to the cogeneration system. [NSR Permit No. 089-0105]

#### **c. Record Keeping Requirements**

- i. The Permittee shall keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12-month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 089-0105]
- ii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

## **2. NO<sub>x</sub>**

#### **a. Limitations and Restrictions**

- i. The Permittee shall not exceed the short-term emissions limits stated herein except during periods of start-up, shut-down, and malfunction for a period of time not to exceed three hours for each occurrence. Emissions are representative of steady state, full load operation at ISO standard conditions [NSR Permit No. 089-0105]:
  - (A) 0.99 lb/hr
  - (B) 2.5 ppmvd at 15% O<sub>2</sub>
  - (C) 4.33 tpy

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall demonstrate compliance with the NO<sub>x</sub> emissions limits listed in Section III.D.2.a.i of this Title V permit by calculating emissions rates using manufacturer's emissions factors, or the most recent stack test results. However, this shall not preclude the Commissioner from requiring other means to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit No. 089-0105]
- ii. The Permittee shall conduct NO<sub>x</sub> stack testing for the combined operations of the turbine and duct burner. Stack testing shall be conducted in accordance with 40 CFR Part 60.4400 and the frequency as specified in 40 CFR Part 60.4340(a). [NSR Permit No. 089-0105]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the short-term emission limits listed in Section III.D.2.a.i of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month NO<sub>x</sub> 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. [NSR Permit No. 089-0105]
- iii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. The Permittee shall submit a written report of the results of each NO<sub>x</sub> stack test performed before the close of business of the 60<sup>th</sup> day following the completion of the stack test. [40 CFR Part 60.4375(b)]
- ii. NO<sub>x</sub> stack test results shall be reported in units of ppmvd at 15% O<sub>2</sub>. [NSR Permit No. 089-0105]
- iii. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **3. SO<sub>x</sub>**

#### **a. Limitations and Restrictions**

- i. The Permittee shall not exceed the short-term emissions limits stated herein except during periods of start-up, shut-down, and malfunction for a period of time not to exceed three hours for each occurrence. Emissions are representative of steady state, full load operation at ISO standard conditions [NSR Permit No. 089-0105]:
  - (A) 0.07 lb/hr
  - (B) 0.29 tpy

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall demonstrate compliance with the SO<sub>x</sub> emissions limits listed in Section III.D.3.a.i of this Title V permit by calculating emissions rates using manufacturer's emissions factors. However, this shall not preclude the Commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit No. 089-0105]
- ii. The Permittee shall demonstrate that the total sulfur content of the fuel combusted in the turbine does not exceed the applicable limits specified in 40 CFR Part 60.4330(a), by using one of the sources of information listed in 40 CFR Part 60.4365 to make the required demonstration. [40 CFR Part 60.4365]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the short-term emission limits listed in Section III.D.3.a.i of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall calculate and record the monthly and consecutive 12-month SO<sub>x</sub> 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. [NSR Permit No. 089-0105]
- iii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **4. PM/PM<sub>10</sub>/PM<sub>2.5</sub> and VOC**

#### **a. Limitations and Restrictions**

- i. The Permittee shall not exceed the short-term emissions limits stated herein except during periods of start-up, shut-down, and malfunction for a period of time not to exceed three hours for each occurrence. Emissions are representative of steady state, full load operation at ISO standard conditions [NSR Permit No. 089-0105]:
  - (A) PM/PM<sub>10</sub>/PM<sub>2.5</sub> - 0.89 lb/hr and 3.90 tpy
  - (B) VOC - 1.22 lb/hr and 5.36 tpy
- ii. The cogeneration system shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9. [NSR Permit No. 089-0105]:

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall demonstrate compliance with the PM/PM<sub>10</sub>/PM<sub>2.5</sub> and VOC emissions limits listed in Section III.D.4.a.i of this Title V permit by calculating emissions rates using AP-42, Fifth edition, Sections 3.1 (April 2000) and 1.4 (July 1998) emissions factors, and manufacturer's emissions factors, respectively. However, this shall not preclude the Commissioner from requiring other means (e.g. stack testing) to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit No. 089-0105]
- ii. If opacity testing is required by the Commissioner, EPA Method 9 (or equivalent EPA approved Method) will be used to determine opacity. [RCSA §22a-174-18(b)(1)]
- iii. If required by the Commissioner, the Permittee shall measure particulate matter emissions using Method 5 of 40 CFR 60, Appendix A, or other equivalent EPA approved test method. [RCSA §22a-174-5(e)(2)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the short-term emission limits listed in Section III.D.4.a.i of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall keep records of the monthly and consecutive 12-month PM/PM<sub>10</sub>/PM<sub>2.5</sub> and VOC 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. [NSR Permit No. 089-0105]
- iii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **5. CO, Formaldehyde and Ammonia**

#### **a. Limitations and Restrictions**

- i. The Permittee shall not exceed the short-term emissions limits stated herein except during periods of start-up, shut-down, and malfunction for a period of time not to exceed three hours for each occurrence. Emissions are representative of steady state, full load operation at ISO standard conditions, unless otherwise stated [NSR Permit No. 089-0105]:
  - (A) CO - 10.84 lb/hr, 45.0 ppmvd at 15% O<sub>2</sub>, 47.49 tpy
  - (B) Formaldehyde - 4.88E-02 lb/hr (at >50% load), 4.28E-02 lb/hr (at <50% load), 0.21 tpy
  - (C) Ammonia - 1.76 lb/hr, 12.0 ppmvd at 15% O<sub>2</sub>, 7.70 tpy

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall demonstrate compliance with the CO and Ammonia emissions limits listed in Section III.D.5.a.i of this Title V permit by calculating emissions rates using manufacturer's emissions factors or the most recent stack test results. However, this shall not preclude the Commissioner from requiring other means to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit No. 089-0105]
- ii. The Permittee shall demonstrate compliance with the Formaldehyde emissions limits listed in Section III.D.5.a.i of this Title V permit by calculating emissions rates using manufacturer's emissions factors, AP-42, Fifth edition, Sections 3.1 (April 2000) and 1.4 (July 1998) emissions factors, and a letter (sent to the Department) dated February 18, 2008 from Solar Turbines. However, this shall not preclude the Commissioner from requiring other means to demonstrate compliance with the aforementioned emissions limits, as allowed by state or federal statute, law or regulation. [NSR Permit No. 089-0105]
- iii. The Permittee shall conduct CO and Ammonia stack testing for the combined operations of the turbine and duct burner. Stack testing shall be conducted with a frequency of at least once every five years from the date of the initial performance test and in accordance with the latest Emissions Test Guidelines available on the DEEP website. [NSR Permit No. 089-0105]

#### **c. Record Keeping Requirements**

- i. The Permittee shall make and keep records demonstrating compliance with the short-term emission limits listed in Section III.D.5.a.i of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall keep records of the monthly and consecutive 12-month CO 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. [NSR Permit No. 089-0105]
- iii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. CO stack test results shall be reported in units of ppmvd at 15% O<sub>2</sub>, and Ammonia stack test results shall be reported in units of  $\mu\text{g}/\text{m}^3$  and ppmvd at 15% O<sub>2</sub>. [NSR Permit No. 089-0105]
- ii. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **6. MASC**

##### **a. Limitations and Restrictions**

- i. The cogeneration system shall not cause an exceedance of the Maximum Allowable Stack Concentration for any HAP emitted by the unit and listed in RCSA §22a-174-29. [RCSA §22a-174-29]

##### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate the ASC and MASC for any HAP emitted by the cogeneration system and listed in RCSA §22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-33(j)(1)(K)]

##### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the calculations specified in condition D.6.b.i. (of Section III) of this Title V permit. [Section VII.F of this Title V permit]
- ii. The Permittee shall retain all such records and supporting documentation for a minimum of five years, commencing on the date such record was created. [RCSA §22a-174-33(o)(2)]

##### **d. Reporting Requirements**

- i. The Permittee shall, upon written notice by the Commissioner, supply the Commissioner with information, for those time periods specified, concerning the usage of any substances listed in RCSA §22a-174-29 or the emissions of such substances into the ambient air. [RCSA §22a-174-29(f)]

#### **7. Operation and Maintenance**

##### **a. Limitations and Restrictions**

- i. The Permittee shall operate and maintain the stationary combustion turbine/duct burner, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR Part 60.4333(a)]
- ii. The Permittee shall also operate and maintain the combustion turbine/duct burner in accordance with the manufacturer's specifications and written recommendations. [NSR Permit No. 089-0105]
- iii. The Permittee shall properly operate the control equipment at all times that the stationary combustion turbine/duct burner is in operation and emitting air pollutants. [NSR Permit No. 089-0105]

### **Section III: Applicable Requirements and Compliance Demonstration**

- iv. The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints. Start the ammonia injection as soon as minimum catalyst temperature is reached. The duration of startup shall not exceed 60 minutes for a hot start or a warm start, nor 180 minutes for a cold start. The duration of shutdown shall not exceed 30 minutes. Emissions during these periods shall be counted towards the cogeneration system's annual emissions limits stated herein. [NSR Permit No. 089-0105]

#### **b. Monitoring and Testing Requirements**

- i. The Permittee shall perform inspections of the cogeneration system's air pollution control equipment as recommended by the manufacturer. [NSR Permit No. 089-0105]
- ii. 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/duct burner. [NSR Permit No. 089-0105]

#### **c. Record Keeping Requirements**

- i. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the stationary gas turbine/duct burner and any malfunction of the air pollution control equipment. Such records shall contain the following information: type of event (startup, shutdown, or malfunction), equipment affected, date of event, duration of event (minutes), and total NO<sub>x</sub> and CO emissions emitted (lb) during the event. [40 CFR Part 60.7(b) and NSR Permit No. 089-0105]
- ii. The Permittee shall keep records of the inspection and maintenance of the cogeneration system's SCR. The records shall include the name of the inspector, the date, the results or actions and the date the catalyst is replaced. [NSR Permit No. 089-0105]
- iii. The Permittee shall keep all required records for a period of no less than five years and shall submit such records to the Commissioner upon request. [NSR Permit No. 089-0105]

#### **d. Reporting Requirements**

- i. The Permittee shall notify the Commissioner in writing of any malfunction of the stationary gas turbine/duct burner or the air pollution control equipment. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: a description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction, and a description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures. [NSR Permit No. 089-0105]
- ii. The Permittee shall submit all required reports in accordance with the requirements of Section VII.E of this Title V permit. [Section VII.E of this Title V permit]

### Section III: Applicable Requirements and Compliance Demonstration

#### E. GEU-004 -EMERGENCY ENGINES [FIRE PUMPS NO. 1 (EU-017) AND 2 (EU-018), AND AN EMERGENCY ENGINE (EU-019)]

##### 1. Maximum Hours of Operation

###### a. Limitations and Restrictions

- i. The Permittee shall operate the emergency engines (GEU-004) for a maximum of 300 hours (each) during any 12-month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
- ii. Maintenance checks and readiness testing for the emergency engines are limited to 100 hours per year each. [40 CFR Part 63.6640(f)(1)(ii)]

###### b. Monitoring and Testing Requirements

- i. The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency. [RCSA §22a-174-3b(e)(2)]
- ii. All the emergency engines may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. [40 CFR Part 63.6640(f)(1)(ii)]
- iii. The Permittee shall install non-resettable hour meters, if they are not already installed, for the emergency engines. [40 CFR Part 63.6625(f)]

###### c. Record Keeping Requirements

- i. The Permittee shall maintain records of the information necessary to determine compliance with the limits in conditions E.1.a.i and E.1.a.ii (of Section III) of this Title V permit. Information sufficient to make such determinations may include records of the hours of operation for each month and each 12-month rolling aggregate for each engine. [RCSA §22a-174-3b(e)(3) and (4)]
- ii. The Permittee shall document and keep records of the hours of operation of the emergency engines that is recorded through the non-resettable hour meters. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency. If the emergency engines are used for demand response operation, the Permittee must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR Part 63.6655(f)]
- iii. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR Part 63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR Part 63.6660]

## Section III: Applicable Requirements and Compliance Demonstration

### d. Reporting Requirements

- i. The Permittee shall keep records on the premises indicating continual compliance with all above conditions at all times and shall make them available upon request of the Commissioner for the duration of this Title V permit, or for the previous five years, whichever is less. [RCSA §22a-174-3b(e)(3)]

## 2. Work Practices and Maintenance Requirements

### a. Limitations and Restrictions

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

### **Section III: Applicable Requirements and Compliance Demonstration**

- vii. The Permittee shall also operate and maintain the emergency engines and after-treatment control devices (if any) according to the manufacturer's emissions-related operation and maintenance instructions or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines, in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR Part 63.6625(e)]
- viii. The Permittee shall comply with the applicable General Provisions listed in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6665]

#### **b. Monitoring and Testing Requirements**

- i. Record keeping specified in Section III.E.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

#### **c. Record Keeping Requirements**

- i. The Permittee shall keep records demonstrating compliance with condition E.2.b.ii (of Section III) of this Title V permit. [40 CFR Part 63.6655(d)]
- ii. The Permittee shall keep records of the maintenance conducted on the emergency engines in order to demonstrate that the emergency engines were operated and maintained according to their maintenance plans, and records of all required maintenance performed on the air pollution control and monitoring equipment (if any). [40 CFR Part 63.6655(e) and (a)(4)]
- iii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment (if any), and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Part 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR Part 63.6655(a)(2) and (5)]
- iv. The Permittee shall keep all records in a form suitable and readily available for expeditious review according to 40 CFR Part 63.10(b)(1), and all records must be kept for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report or record. [40 CFR Part 63.6660]

#### **d. Reporting Requirements**

- i. The Permittee shall report each instance in which it did not meet the requirements listed in conditions E.2.a.i through E.2.a.iv (of Section III) of this Title V permit. These must be reported according to the requirements specified in 40 CFR Part 63.6650. [40 CFR Part 63.6640(b)]
- ii. The Permittee shall report any failure to perform any of the work practices and/or maintenance requirements listed in Section III.E.2.a of this Title V permit on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ Table 2d Footnote 2]
- iii. The Permittee shall report each instance it did not meet the applicable requirements in Table 8 of 40 CFR Part 63 Subpart ZZZZ. [40 CFR Part 63.6640(e)]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **3. Maximum Sulfur Content in Fuel**

##### **a. Limitations and Restrictions**

- i. Any nongaseous fuel consumed by the emergency engines shall not exceed the sulfur content of motor vehicle diesel fuel where “motor vehicle diesel fuel” is defined in RCSA Section 22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

##### **b. Monitoring and Testing Requirements**

- i. The Permittee shall ensure that the sulfur content in the fuel is in compliance with the limit in condition E.3.a.i (of Section III) of this Title V permit. [RCSA §22a-174-3b(e)(2)(D)]

##### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the information necessary to determine compliance with the limit in condition E.3.a.i (of Section III) of this Title V permit. [RCSA §22a-174-3b(e)(3)]

##### **d. Reporting Requirements**

- i. The Permittee shall keep records on the premises indicating continual compliance with all above conditions at all times and shall make them available upon request of the Commissioner for the duration of this Title V permit, or for the previous five years, whichever is less. [RCSA §22a-174-3b(e)(3)]

#### **4. MASC**

##### **a. Limitations and Restrictions**

- i. The emergency engines shall not cause an exceedance of the Maximum Allowable Stack Concentration for any HAP emitted by the units and listed in RCSA §22a-174-29. [RCSA §22a-174-29]

##### **b. Monitoring and Testing Requirements**

- i. The Permittee shall calculate the ASC and MASC for any HAP emitted by the emergency engines and listed in RCSA §22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-33(j)(1)(K)]

##### **c. Record Keeping Requirements**

- i. The Permittee shall maintain records of the calculations specified in condition E.4.b.i (of Section III) of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]
- ii. The Permittee shall retain all such records and supporting documentation for a minimum of five years, commencing on the date such record was created. [RCSA §22a-174-33(o)(2)]

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **d. Reporting Requirements**

- i. The Permittee shall, upon written notice by the Commissioner, supply the Commissioner with information, for those time periods specified, concerning the usage of any substances listed in RCSA §22a-174-29 or the emissions of such substances into the ambient air. [RCSA §22a-174-29(f)]

## Section III: Applicable Requirements and Compliance Demonstration

### F. PREMISES-WIDE GENERAL REQUIREMENTS

<b>TABLE III.F: PREMISES-WIDE GENERAL REQUIREMENTS</b>		
<b>Pollutants or Process Parameters</b>	<b>Applicable Regulatory References/Citations</b>	<b>Compliance Demonstration Requirements</b>
Annual Emissions Statements	RCSA §22a-174-4	1. The Permittee shall submit annual emissions statements requested by the Commissioner as set forth in RCSA §22a-174-4(d)(1).
Emissions Testing	RCSA §22a-174-5	2. The Permittee shall comply with the procedures for sampling, emissions testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
Emergency Episode Procedures	RCSA §22a-174-6	3. The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
Reporting of Malfunctioning Control Equipment	RCSA §22a-174-7	4. The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
Prohibition of Air Pollution	RCSA §22a-174-9	5. The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
Public Availability of Information	RCSA §22a-174-10	6. The public availability of information shall apply, as set forth in RCSA §22a-174-10.
Prohibition Against Concealment/Circumvention	RCSA §22a-174-11	7. The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
Violations and Enforcement	RCSA §22a-174-12	8. The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
Variances	RCSA §22a-174-13	9. The Permittee may apply to the Commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
No Defense to Nuisance Claim	RCSA §22a-174-14	10. The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
Severability	RCSA §22a-174-15	11. The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
Responsibility to Comply	RCSA §22a-174-16	12. The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
Particulate Emissions	RCSA §22a-174-18	13. 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.)
Sulfur Compound Emissions	RCSA §22a-174-19	14. The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
Organic Compound Emissions	RCSA §22a-174-20	15. The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
Carbon Monoxide Emissions	RCSA §22a-174-21	16. The Permittee shall comply with the requirements for control of carbon monoxide emissions as set forth in RCSA §22a-174-21.
Nitrogen Oxide Emissions	RCSA §22a-174-22	17. The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.

### Section III: Applicable Requirements and Compliance Demonstration

<b>TABLE III.F: PREMISES-WIDE GENERAL REQUIREMENTS</b>		
<b>Pollutants or Process Parameters</b>	<b>Applicable Regulatory References/Citations</b>	<b>Compliance Demonstration Requirements</b>
Maximum Facility-wide Nitrogen Oxide Emissions	NSR Permit No. 089-0105	<p>18. The Permittee shall limit NO<sub>x</sub> emissions at the premises to under 50 tons per calendar year and under 274 pounds on any day during the ozone season (i.e. May 1 to September 30, inclusive).</p> <p style="margin-left: 20px;">a. Record Keeping Requirements</p> <p style="margin-left: 40px;">i. The Permittee shall keep records of NO<sub>x</sub> emissions from all units on the premises to demonstrate compliance with the abovementioned NO<sub>x</sub> emissions limits pursuant to RCSA §22a-174-22(b)(2).</p> <p style="margin-left: 40px;">ii. The Permittee shall keep all these records for a period of no less than five years and shall submit such records to the Commissioner upon request.</p>
Ambient Air Quality	RCSA §22a-174-24	19. 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).
Emissions Fees	RCSA §22a-174-26	20. The Permittee shall pay an emissions fee as set forth in RCSA §22a-174-26(d).
Chemical Accident Provisions	40 CFR Part 68	21. The Permittee shall comply with all applicable requirements of 40 CFR Part 68.
Protection of Stratospheric Ozone	40 CFR 82 Subpart F	22. The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances pursuant to 40 CFR Part 82 Subpart F.

**Section IV: Compliance Schedule**

<b>Table IV: COMPLIANCE SCHEDULE</b>				
<b>Emissions Unit</b>	<b>Applicable Regulations</b>	<b>Steps Required for Achieving Compliance (Milestones)</b>	<b>Date by which each Step is to be Completed</b>	<b>Dates for Monitoring, Record Keeping, and Reporting</b>
N/A				

## **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.

- 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.** Odors: The Permittee shall not cause or permit the emissions 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.
- D.** 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.
- E.** 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.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use No.2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- H.** Reporting of emissions of greenhouse gases: In accordance with CGS §22a-200b, the Permittee shall report greenhouse gas emissions to the Commissioner in a format specified by the Commissioner.

**Section VI: Permit Shield**

**NO PERMIT SHIELD GRANTED**

In accordance with RCSA §22a-174-33(k), a Permittee complying with the conditions of this Title V permit shall be deemed in compliance with any applicable requirements identified in Table VI below as of the date of issuance. Also, in accordance with RCSA §22a-174-33(k), a Permittee complying with the conditions of this Title V permit shall be deemed exempt from any non-applicable requirements identified below as of the date of issuance.

This Title V permit shall not alter or affect the following:

- A. The provisions of section 303 of the Clean Air Act, including the authority of the Administrator under the Act;
- B. The liability of an owner or operator of a Title V source for any violation of applicable requirements prior to or at the effective date of a Title V permit;
- C. The applicable requirements of the acid rain program under 40 CFR Part 72; and
- D. The ability of the Administrator or Commissioner to obtain information from the owner or operator of a Title V source.

<b>Table VI: PERMIT SHIELD</b>				
<b>Regulated Pollutants</b>	<b>Emissions Units</b>	<b>Applicable Requirement or Non-Applicable Requirement Descriptions</b>	<b>Applicable Regulatory References/Citations</b>	<b>*Permit Shield Indicate</b>
N/A				

**\*For “Permit Shield Indicate”, use AR to indicate Applicable Requirement and NR for Non- Applicable Requirement**

## Section VII: 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 these sections.

### 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:

## **Section VII: 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:
  - a. 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,
  - b. 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
  - c. 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 VII: 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 VII: 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 VII.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 emissions reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and 22a-174-33(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 (B) unless imposition of such limits is required by an applicable requirement.

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

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

### **N. PERMIT AVAILABILITY**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### **V. TRANSFERS** [RCSA §22a-174-2a(g)]

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

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

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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).

### **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.