



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

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

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

Title V Permit Number	089-0066-TV
Client/Sequence/Town/Premises Numbers	5246/01/089/0065
Date Issued	October 10, 2019
Expiration Date	October 10, 2024

Corporation:

Frito-Lay, Inc.

Premises Location:

1886 Upper Maple Street, Dayville, CT 06241

Name of Responsible Official and Title:

Kerry A. Shields, Supply Chain Vice President

All the following attached pages, 2 through 34, are hereby incorporated by reference into this Title V permit.

/s/ Tracy Babbidge for _____
Betsey C. Wingfield
Deputy Commissioner

10/10/2019
Date

TABLE OF CONTENTS

	PAGE
List of Abbreviations/Acronyms	4
Section I. Premises Information/Description	
A. Premises Information.....	5
B. Premises Description.....	5
Section II. Emissions Units Information	
A. Emissions Units Description - Table II.A.....	6
B. Operating Scenario Identification - Table II.B	7
Section III. Applicable Requirements and Compliance Demonstration	
A. Grouped Emissions Unit 1	8
B. Grouped Emissions Unit 3.....	10
C. Emissions Unit 11.....	13
D. Grouped Emissions Unit 2.....	20
E. Grouped Emissions Unit 4.....	21
F. Emissions Unit 28.....	23
G. Premises-Wide General Requirements	24
Section IV. Compliance Schedule - Table IV	26
Section V. State Enforceable Terms and Conditions	27
Section VI. Title V Requirements	
A. Submittals to the Commissioner & Administrator.....	28
B. Certifications [RCSA §22a-174-33(b)].....	28
C. Signatory Responsibility [RCSA §22a-174-2a(a)]	28
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)].....	29
E. Monitoring Reports [RCSA §22a-174-33(o)(1)]	29
F. Premises Records [RCSA §22a-174-33(o)(2)]	30
G. Progress Reports [RCSA §22a-174-33(q)(1)].....	30
H. Compliance Certifications [RCSA §22a-174-33(q)(2)].....	31
I. Permit Deviation Notifications [RCSA §22a-174-33(p)]	31
J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....	31
K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)]	31
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)]	31
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....	32
N. Permit Availability.....	32
O. Severability Clause [RCSA §22a-174-33(j)(1)(R)]	32
P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....	32
Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)]	32
R. Property Rights [RCSA §22a-174-33(j)(1)(W)]	32
S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)]	32
T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)]	33
U. Information for Notification [RCSA §22a-174-33(r)(2)(A)]	33
V. Transfers [RCSA §22a-174-2a(g)]	33
W. Revocation [RCSA §22a-174-2a(h)]	33
X. Reopening for Cause [RCSA §22a-174-33(s)].....	34
Y. Credible Evidence.....	34

Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
%	Percent
°F	Degree Fahrenheit
acfm	Actual cubic feet per minute
AP-42	Compilation of Air Pollutant Emissions Factors
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
HAP	Hazardous Air Pollutant
HC	Hydrocarbon
hr	Hour
ISO	International Organization for Standardization
lb	Pound
MASC	Maximum Allowable Stack Concentration
MCF	Thousand Cubic Feet
MMBtu	Million British Thermal Units of Heat Input
MMcf	Million Cubic Feet
mmHg	Millimeters of Mercury
MRC	Maximum Rated Capacity
No.	Number
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
PM _{2.5}	Particulate Matter less than 2.5 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
scf	Standard Cubic Feet
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SOS	Standard Operating Scenario
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
yr	Year

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Snack food Products Manufacturer
Primary SIC: 2096
Other SIC: Not Applicable

Facility Mailing Address: 1886 Upper Maple Street, Dayville, CT 06241
Telephone Number: 860-412-1000

B. PREMISES DESCRIPTION

Frito-Lay, Inc. manufactures snack food products at their facility in Dayville, 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 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 natural gas fired and the cogeneration system is also fueled exclusively by natural gas.

Frito-Lay's Cogeneration system (EU-11) consists of a Centaur 50-6200S Gas Turbine with a 44.4 MMBtu/hr duct burner is subject to 40 CFR Part 60 Subpart KKKK, New Source Performance Standards for Stationary Combustion Turbines 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. A portion of the SCR-treated exhaust gas is used as the primary source of heat and conveying gas for the two starch dryers (GEU-2) that comprise the facility's Starch Recovery System. Alternatively, when EU-11 is not operating, Starch Dryer No. 1 uses a steam heat exchanger to heat air used as the drying and conveying medium, while Starch Dryer No. 2 uses a direct fired natural gas heater burner.

The three on-site boilers (GEU-3) produce process steam for manufacturing and are vented to a common stack. The boilers were constructed in 1980 and 1981 and therefore are not subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units since the applicability date is for units constructed, modified, or reconstructed after June 9, 1989. Additionally, the boilers are not subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers for Area Sources since they are considered a *gas-fired boiler* pursuant to 40 CFR §63.11195(e).

The two emergency fire pump engines (GEU-4) are subject to 40 CFR Part 60 Subpart IIII, New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines since the engines are stationary reciprocating internal combustion engines located at an area source of HAPs.

The single Cold Cleaner No. 1 (EU-28) is subject to RCRA §22a-174-20(l).

In addition to the boilers, fire pumps 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 and furnaces.

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

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Emissions Unit		Emissions Unit Description	Control Unit Description	Permit or Regulation Number
GEU-1 Potato Lines	EU-1	Line No. 1 Cooker	Oil Mist Eliminator	NSR Permit No. 089-0012
	EU-2	Line No. 2 Cooker	Oil Mist Eliminator	NSR Permit No. 089-0028
GEU-2 Starch Dryers	EU-4	Starch Dryer No. 1	None	Collateral Conditions in Permit No. 089-0105
	EU-32	Starch Dryer No. 2	None	
GEU-3 Boilers	EU-8	Boiler No. 1 – Cleaver Brooks Delta 60 Watertube Boiler	None	NSR Permit No. 089-0025
	EU-9	Boiler No. 2 – Cleaver Brooks Delta 60 Watertube Boiler	None	NSR Permit No. 089-0026
	EU-10	Boiler No. 3 - Cleaver Brooks Delta 60 Watertube Boiler	None	NSR Permit No. 089-0027
EU-11		Cogeneration System - Centaur 50-6200S Gas Turbine with a 44.4 MMBtu/hr duct burner	SoLoNO _x , SCR	NSR Permit No. 089-0105 RCSA §§22a-174-22f 40 CFR Part 60 Subpart K K K K
GEU-4 Emergency Engines	EU-33	Fire Pump No. 1 – John Deere Model No. JW6H-UFADJO	None	RCSA §§22a-174-3b(e) and 22a-174-22f 40 CFR Part 60 Subpart III
	EU-34	Fire Pump No. 2 – John Deere Model No. JW6H-UFADJO	None	RCSA §§22a-174-3b(e) and 22a-174-22f 40 CFR Part 60 Subpart III
EU-28		Cold Cleaner No. 1	None	RCSA §22a-174-20(l)

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following Standard Operating Scenario (SOS) 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.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
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 the operation of process lines (comprised of cookers, ovens, a cooler, a popper), starch dryers, grain handling operations, furnaces, emergency engines, and a cold cleaner in accordance with applicable permitted or allowed operating conditions.

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSIONS UNIT 1 (GEU-1): Potato Lines [Line No. 1 Cooker (EU-1) and Line No. 2 Cooker (EU-2)]; Permit Nos. 089-0012 and 089-0028

1. Raw Material Input

a. Limitation or Restriction

i. Maximum Daily Raw Material Inputs: (Each Unit) [P089-0012 and P089-0028]

(A) Raw Potatoes: 768,000 lb/day

(B) Vegetable Oil: 77,000 lb/day

b. Monitoring Requirements

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

c. Record Keeping Requirements

The Permittee shall make and keep records of the daily material input amounts, for each unit in GEU-1, determined by dividing monthly total by number of days operated during the month. [P089-0012 and P089-0028]

d. Reporting Requirements

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

2. Air Pollution Control Equipment

a. Limitation or Restriction

i. The Permittee shall operate three oil mist eliminators capable of achieving a minimum 70% efficiency in reducing TSP emissions from EU-1. [P089-0012]

ii. The Permittee shall operate two oil mist eliminators capable of achieving a minimum 70% efficiency in reducing TSP emissions from EU-2. [P089-0028]

iii. The Permittee shall operate a Rotoclone Scrubber on the salter hood vent at all times, capable of achieving a minimum removal efficiency of 75%. [P089-0028]

iv. Maintenance of the oil mist eliminators shall consist of the following: [P089-0012 and P089-0028]

(A) Weekly cleaning of the pads to remove accumulated vegetable oil collected during operation of the system.

(B) Maintenance of the fan shall be performed to assure that it maintains sufficient air flow through the oil mist eliminators.

(C) Pads must be replaced prior to deterioration of the wire mesh.

b. Monitoring Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all required maintenance on the oil mist eliminators. [P089-0012 and P089-0028]
- ii. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.A.2.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

3. Allowable Emissions

a. Limitation or Restriction

- i. EU-1 [P089-0012]
 - (A) TSP
 - (1) 2.1 lb/hr
 - (2) 9.2 tpy
 - (B) HC/VOC
 - (1) 0.08 lb/hr
 - (2) 0.35 tpy
- ii. EU-2 [P089-0028]
 - (A) TSP
 - (1) 2.5 lb/hr
 - (2) 10.95 tpy
 - (B) HC/VOC
 - (1) 0.08 lb/hr
 - (2) 0.35 tpy

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

B. GROUPED EMISSIONS UNIT 3 (GEU-3): Three CB Delta 60 Watertube Boilers Permit Nos. 089-0025 (EU-8), 089-0026 (EU-9), and 089-0027 (EU-10)

1. Allowable Fuel Use and Hours of Operation

a. *Limitation or Restriction* [P089-0025, 089-0026, and 089-0027]

- i. Allowable Fuel: Natural Gas
- ii. Maximum Fuel Firing Rate (MCF/hr):
 - (A) 51.39 (EU-8 and EU-9)
 - (B) 51.72 (EU-10)
- iii. Maximum Gross Heat Input (MMBtu/hr):
 - (A) 52.55 (EU-8 and EU-9)
 - (B) 52.89 (EU-10)
- iv. Maximum Fuel Consumption over any Consecutive 13 (28-day) Periods (MMcf):
 - (A) 450.19 (EU-8 and EU-9)
 - (B) 453.09 (EU-10)

b. *Monitoring Requirements* [P089-0025, 089-0026, and 089-0027]

The Permittee shall use a non-resettable totalizing fuel metering device or a billing meter to continuously monitor the combined total fuel feed to GEU-3.

c. *Record Keeping Requirements* [P089-0025, 089-0026, and 089-0027]

- i. For each unit in GEU-3, the Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) periods fuel consumption. The consecutive 13 (28-day) periods fuel consumption shall be determined by adding the current 28-day period's fuel consumption 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.
- ii. For each unit in GEU-3, the Permittee shall make and keep daily, 28-day period, and consecutive 13 (28-day) periods records of hours of operation. The consecutive 13 (28-day) periods hours of operation shall be determined by adding the current 28-day period's hours of operation 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.

d. *Reporting Requirements*

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

2. Allowable Emissions

a. *Limitation or Restriction* [P089-0025, 089-0026, and 089-0027]

- i. The Permittee shall not exceed the following emissions (lb/hr):
 - (A) PM/PM₁₀/PM_{2.5}: 0.39
 - (B) SO₂: 0.03

Section III: Applicable Requirements and Compliance Demonstration

- (C) NO_x:
 - (1) 5.76 (EU-8)
 - (2) 5.91 (EU-9)
 - (3) 4.71 (EU-10)
 - (D) VOC: 0.28
 - (E) CO:
 - (1) 5.45 (EU-8)
 - (2) 5.70 (EU-9)
 - (3) 15.05 (EU-10)
- ii. The Permittee shall not exceed the following emissions for each unit (tpy):
- (A) PM/PM₁₀/PM_{2.5}:
 - (1) 1.71 (EU-8 and EU-9)
 - (2) 1.72 (EU-10)
 - (B) SO₂: 0.14
 - (C) NO_x:
 - (1) 25.21 (EU-8)
 - (2) 25.89 (EU-9)
 - (3) 20.62 (EU-10)
 - (D) VOC:
 - (1) 1.24 (EU-8 and EU-9)
 - (2) 1.25 (EU-10)
 - (E) CO:
 - (1) 23.86 (EU-8)
 - (2) 24.99 (EU-9)
 - (3) 65.93 (EU-10)
- iii. Premises-Wide NO_x Emissions
- (A) The Permittee shall not exceed the following Premises-Wide NO_x emissions:
 - (1) Less than 274 lb/day (From May 1 to September 30)
 - (2) Less than 50 tpy
- iv. Demonstration of compliance with the emission limits in Section III.B.2 of this Title V permit shall be met by calculating the emissions rates using emission factors from the following sources:
- (A) PM/PM₁₀/PM_{2.5}, SO₂, and VOC: Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition, Volume 1, Section 1.4, July 1998
 - (B) NO_x and CO: 1995 Stack Test Results

Section III: Applicable Requirements and Compliance Demonstration

- (C) The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the emission limits in Section III.B.2 of this Title V permit, as allowed by state or federal statute, law or regulation.
 - v. The Permittee shall operate and maintain each unit in GEU-3 and associated monitoring equipment in accordance with the manufacturer's specifications and written recommendations.
- b. Monitoring Requirements*
- i. The Permittee shall perform inspections of each unit in GEU-3 and associated monitoring equipment as recommended by the manufacturer. [P089-0025, 089-0026, and 089-0027]
 - ii. Record keeping specified in Section III.B.2.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]
- c. Record Keeping Requirements* [P089-0025, 089-0026, and 089-0027]
- i. For each unit in GEU-3, the Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) periods PM, PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, and CO 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. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period.
 - ii. During the period from May 1 to September 30, inclusive, the Permittee shall calculate and record the daily premises-wide NO_x emissions in units of pounds. Such records shall include a sample calculation for each unit. The Permittee shall make these calculations no later than the last day of each 28-day period for every day of operation in the preceding 28-day period.
 - iii. The Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) periods premises-wide NO_x emissions in units of tons. The consecutive 13 (28-day) periods premises-wide NO_x emissions shall be determined by adding the current 28-day period's emissions to that of the previous 12 (28-day) periods. Such records shall include a sample calculation for each unit. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period.
 - iv. The Permittee shall keep records of manufacturer's specifications and written recommendations for the operation, inspection, and maintenance of each unit in GEU-3 and associated monitoring equipment.
 - v. The Permittee shall make and keep records of maintenance and inspections conducted on each unit in GEU-3 and associated monitoring equipment. Such records shall include the date and nature of all services performed.
- d. Reporting Requirements*
- i. The Permittee shall notify the commissioner in writing of any malfunction of any unit in GEU-3 and associated monitoring equipment. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P089-0025, 089-0026, and 089-0027]
 - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) A description of all corrective actions and preventative measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.

Section III: Applicable Requirements and Compliance Demonstration

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

3. Hazardous Air Pollutants

- a. *Limitation or Restriction* [P089-0025, 089-0026, and 089-0027]

Each unit in GEU-3 shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29.

[STATE ONLY REQUIREMENT]

- b. *Monitoring Requirements*

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

- c. *Record Keeping Requirements*

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

- d. *Reporting Requirements*

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

4. Opacity

- a. *Limitation or Restriction*

Each unit in GEU-3 shall not exceed 20% opacity during any six minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P089-0025, 089-0026, and 089-0027]

- b. *Monitoring Requirements*

Record keeping specified in Section III.B.4.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. *Record Keeping Requirements*

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.B.4.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

- d. *Reporting Requirements*

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

C. EMISSIONS UNIT 11 (EU- 11): Centaur 50-6200S Gas Turbine with a 44.4 MMBtu/hr duct burner; Permit No. 089-0105; 40 CFR Part 60 Subpart KKKK

1. Allowable Fuel Use

- a. *Limitation or Restriction* [P089-0105]

- i. Allowable Fuel: Pipeline Quality Natural Gas

- ii. Maximum Fuel Firing Rate (cf/hr):

- (A) Turbine: 62,781

Section III: Applicable Requirements and Compliance Demonstration

- (B) Duct Burner: 43,419
- iii. Maximum Gross Heat Input (MMBtu/hr):
 - (A) Turbine: 64.2
 - (B) Duct Burner: 44.4
- iv. Maximum Natural Gas Consumption over any 13 Consecutive (28-day) Periods (cf/yr): 930,312,000
- v. Maximum combined turbine/duct burner fuel firing rate may be determined by equation in Section III.C.5.a.iii. of this Title V Permit.
- b. *Monitoring Requirements* [P089-0105]

The Permittee shall use individual non-resettable totalizing fuel metering devices or billing meters to continuously monitor the fuel feed to the turbine and duct burner.
- c. *Record Keeping Requirements* [P089-0105]

The Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) period fuel consumption. The consecutive 13 (28-day) period fuel consumption shall be determined by adding the current 28-day period's fuel consumption 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.
- d. *Reporting Requirements*

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

2. Allowable Emissions and Operating Limits

- a. *Limitation or Restriction* [P089-0105]
 - i. The Permittee shall not exceed the following emissions at 100% Load and ISO Standard Conditions:
 - (A) PM: 0.89 lb/hr
 - (B) PM₁₀: 0.89 lb/hr
 - (C) PM_{2.5}: 0.89 lb/hr
 - (D) SO₂:
 - (1) 0.07 lb/hr
 - (2) 0.060 lb/MMBtu [40 CFR §60.4330(a)(2)]
 - (E) NO_x:
 - (1) 0.99 lb/hr
 - (2) 2.5 ppmvd @ 15% O₂
 - (3) 25 ppmvd @ 15% O₂ [40 CFR §60.4320, Table 1]
 - (F) VOC: 0.15 lb/hr
 - (G) CO:
 - (1) 10.84 lb/hr
 - (2) 45.0 ppmvd @ 15% O₂

Section III: Applicable Requirements and Compliance Demonstration

- (H) Ammonia:
 - (1) 1.76 lb/hr
 - (2) 12.0 ppmvd @ 15% O₂
- (I) Formaldehyde:
 - (1) > 50% Load: 4.88E-02 lb/hr
 - (2) < 50% Load: 4.28E-02 lb/hr
- ii. Allowable Startup and Shutdown Emission Limits
 - (A) NO_x (lb/event):
 - (1) Startup: 1
 - (2) Shutdown: 1
 - (B) CO (lb/event):
 - (1) Startup: 67
 - (2) Shutdown: 65
 - (C) VOC (lb/event):
 - (1) Startup: 17
 - (2) Shutdown: 15
 - (D) The Permittee shall minimize emissions during periods of startup and shutdown by the following work practices and time constraints:
 - (1) Start the ammonia injection as soon as minimum catalyst temperature is reached;
 - (2) The duration of startup shall not exceed 60 minutes for a hot start;
 - (3) The duration of startup shall not exceed 60 minutes for a warm start;
 - (4) The duration of startup shall not exceed 180 minutes for a cold start;
 - (5) A warm start shall be defined as startup when the turbine has been down for more than 8 hours;
 - (6) A cold start shall be defined as startup when the turbine has been down for more than 48 hours; and
 - (7) The duration of shutdown shall not exceed 30 minutes.
- iii. Annual Emission Limits (tons per 13 consecutive (28-day) periods)
 - (A) PM₁₀: 3.90
 - (B) PM_{2.5}: 3.90
 - (C) SO₂: 0.74
 - (D) NO_x: 4.33
 - (E) VOC: 0.66
 - (F) CO: 47.49
 - (G) Ammonia: 7.70

Section III: Applicable Requirements and Compliance Demonstration

- (H) Formaldehyde: 0.21
 - iv. Demonstration of compliance with the emission limits in Section III.C.2.a. of this Title V permit may be met by calculating the emission rates using emission factors from the following sources:
 - (A) PM/PM₁₀/PM_{2.5}, SO₂: AP-42, 5th Edition Section 1.4 (Duct Burner), July 1998 and 3.1 (Turbine), April 2000
 - (B) Formaldehyde: Manufacturer's Data
 - (C) NO_x, CO, VOC, and Ammonia: Latest Stack test data
 - (D) The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the emission limits in Section III.C.2.a. of this Title V permit, as allowed by state or federal statute, law or regulation.
 - v. The Permittee shall operate and maintain EU-11 in accordance with the manufacturer's specifications and written recommendations.
 - vi. The Permittee shall operate and maintain EU-11, 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.
 - vii. The Permittee shall properly operate the control equipment at all times that EU-11 is in operation and emitting air pollutants.
 - viii. In the event that a malfunction causing either an emission exceedance or a parameter monitored out of recommended range is not corrected within three hours, the Permittee shall immediately institute shutdown of EU-11.
- b. Monitoring Requirements*
- i. The Permittee shall monitor all startup/shutdown, and malfunction events. [P089-0105]
 - ii. The Permittee shall perform inspections of the SCR as recommended by the manufacturer. [P089-0105]
 - iii. Record keeping specified in Section III.C.2.c. of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]
- c. Record Keeping Requirements* [P089-0105]
- i. The Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) period PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, CO, Ammonia, and Formaldehyde emissions in units of tons. The consecutive 13 (28-day) period 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. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period.
 - ii. Emissions during startup and shutdown shall be counted towards the annual emission limitation in Section III.C.2.a.iii. of this Title V Permit.
 - iii. The Permittee shall keep records of all exceedances of any operating parameter. Such records shall include:
 - (A) The date and time of the exceedance;
 - (B) a detailed description of the exceedance; and
 - (C) the duration of the exceedance.

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall keep records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of EU-11 or any malfunction of the air pollution control equipment. Such records shall contain the following information:
 - [40 CFR §60.7(b)]
 - (A) Type of event (startup, shutdown, or malfunction);
 - (B) equipment affected;
 - (C) date of the event;
 - (D) duration of the event (minutes); and
 - (E) total NO_x, CO and VOC emissions emitted (lb) during the event.
 - [RCSA §22a-174-33(j)(1)(K)]
- v. The Permittee shall keep records of each delivery of anhydrous ammonia. The records shall include:
 - (A) The date of the delivery;
 - (B) the name of the supplier;
 - (C) the quantity of anhydrous ammonia delivered; and
 - (D) Certificate of analysis for material delivered.
- vi. The Permittee shall keep records of the inspection and maintenance of the SCR. The records shall include:
 - (A) The name of the person;
 - (B) the date;
 - (C) the results or actions; and
 - (D) the date the catalyst is replaced.
- vii. The Permittee shall maintain records of the maintenance/repairs/parts replacement of EU-11. The maintenance records shall include, at a minimum:
 - (A) A description of the maintenance activity; and
 - (B) The date the maintenance was performed.

d. Reporting Requirements

- i. The Permittee shall notify the commissioner in writing of any exceedance of an emission limitation, and shall identify the cause or likely cause of such exceedance, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:
 - [P089-0105]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other regulated air pollutant, no later than ten days after such exceedance commenced.
- ii. The Permittee shall notify the commissioner in writing of any malfunction of the stationary gas turbine or duct burner, the air pollution control equipment. The Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following:
 - [P089-0105]

Section III: Applicable Requirements and Compliance Demonstration

- (A) a description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) a description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

3. Hazardous Air Pollutants

a. Limitation or Restriction [P089-0105]

EU-11 shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA §22a-174-29.

[STATE ONLY REQUIREMENT]

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

d. Reporting Requirements

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

4. Opacity

a. Limitation or Restriction [P089-0105]

EU-11 shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9.

b. Monitoring Requirements

Record keeping specified in Section III.C.4.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.C.4.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

5. Stack Test Requirements

a. Limitation or Restriction [P089-0105]

- i. Stack testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website.
- ii. Recurring stack testing shall be required for the following pollutants: NO_x, CO, VOC, Ammonia
 - (A) Recurrent stack testing for CO, VOC and ammonia shall be conducted within five years from the date of the previous stack test to demonstrate compliance with their respective limits. VOC testing shall be conducted at the next DEEP required testing for any pollutant after the issuance of modified NSR Permit 089-0105, Application No. 201812797.
 - (B) Annual/biennial stack testing for NO_x shall be performed to demonstrate compliance with the NO_x emission limits in accordance with 40 CFR §60.4400.
- iii. For the purposes of stack emission testing, the combined turbine and duct burner fuel firing rate (scf/hr) Maximum Rated Capacity (MRC) may be determined by the following:
 - (A) For Air Inlet Temperatures < 19.9 °F, MRC shall be 106,200 scf/hr, and
 - (B) For Air Inlet Temperatures ≥ 19.9 °F, the following equation may be used:
$$\text{MRC} = 109,295 - 155.63 * T$$

Where: T = Air Inlet Temperature (°F)
- iv. Stack testing shall be conducted for the following operating modes: Turbine and duct burner on natural gas.
- v. Stack test results shall be reported as follows:
 - (A) All pollutants in units of lb/hr
 - (B) NO_x, CO, and ammonia in units of ppmvd @ 15% O₂

b. Monitoring Requirements

Record keeping specified in Section III.C.5.c of this Title V permit shall be sufficient to meet other Monitoring Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.C.5.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

6. 40 CFR Part 60 Subpart KKKK – New Source Performance Standard for Stationary Gas Turbines

a. Limitation or Restriction

- i. The Permittee must operate and maintain EU-11, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including startup, shutdown, and malfunction. [40 CFR §60.4333]
- ii. The Permittee shall comply with the NO_x emissions limits found in Sections III.C.2.a.i.(E)(3) of this Title V permit. [40 CFR §60.4320]

Section III: Applicable Requirements and Compliance Demonstration

- iii. The Permittee shall comply with the SO₂ emissions limits found in Section III.C.2.a.i.(D)(2) of this Title V permit. [40 CFR §60.4330(a)(2)]

b. Monitoring and Testing Requirements

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

c. Record Keeping Requirements

- i. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.C.6.a of this Title V permit.

[RCSA §22a-174-33(j)(1)(K)]

- ii. The Permittee shall keep records of the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel specifying that the maximum total sulfur content is 20 grains of sulfur or less per 100 standard cubic feet.

[40 CFR §60.4365(a)]

- iii. The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operating of EU-11; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

[40 CFR §60.7(b)]

d. Reporting Requirements

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

D. GROUPED EMISSIONS UNIT 2 (GEU-2):

Starch Dryer No. 1 (EU-4) and Starch Dryer No. 2 (EU-32)

a. Limitation or Restriction [P089-0105]

The Permittee shall comply with the following Operational Conditions for GEU-2:

- i. Combined Design Maximum Rated Dry Starch Capacity (tons/yr): 3,700
- ii. Maximum Hourly Wet Starch Input, combined (lb/hr): 1,417
- iii. Maximum Hourly Dry Starch Throughput, combined (lb/hr): 850
- iv. Maximum Total Exhaust Flow Rate from EU-11 (acfm): 8,400
- v. The exhaust gas from EU-11 shall not bypass the EU-11 emission control system.

b. Monitoring Requirements [P089-0105]

The Permittee shall install, calibrate, maintain and operate a flow meter to continuously monitor the total exhaust flow rate from EU-11 to GEU-2.

c. Record Keeping Requirements [P089-0105]

- i. The Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) period fuel consumption for EU-32. The consecutive 13 (28-day) period fuel consumption shall be determined by adding the current 28-day period's fuel consumption that of the previous 12 (28-day) periods. The

Section III: Applicable Requirements and Compliance Demonstration

Permittee shall make these calculations within 28 days of the end of the previous 28-day period.

- ii. The Permittee shall calculate and record the 28-day period and consecutive 13 (28-day) period starch production records. The consecutive 13 (28-day) period starch production shall be determined by adding the current 28-day period's starch production 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.
- iii. The Permittee shall calculate and record the 28 day period and consecutive 13 (28 day) period PM₁₀/PM_{2.5}, SO_x, NO_x, CO, and VOC emissions from GEU-2 in units of tons. The consecutive 13 (28-day) period 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. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 28 days of the end of the previous 28-day period.

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier.

[RCSA §22a-174-33(j)(1)(X)]

E. GROUPED EMISSIONS UNIT 4 (GEU-4): Two John Deere Emergency Fire Pumps (EU-33 and EU-34); RCSA §22a-174-3b(e); 40 CFR Part 60 Subpart III

1. RCSA §§22a-174-3b(e) and 22a-174-22f Requirements

a. Limitation or Restriction

- i. The Permittee shall not cause or allow any unit in GEU-4 to operate except during periods of testing and scheduled maintenance or during an emergency. Operation of GEU-4 shall not exceed 300 hours, for each unit in GEU-4, during any 12 month rolling aggregate.

[RCSA §22a-174-3b(e)(2)(C)]

- ii. The Permittee shall comply with the fuel sulfur content requirements in accordance with RCSA §22a-174-19b(d).
- iii. The Permittee shall not operate any unit in GEU-4 for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups" or greater. If, subsequent to the initial forecast of "moderate to unhealthy for sensitive groups" or greater, the forecast is revised to "moderate" or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the Permittee to refrain from the operation of any unit in GEU-4 at the facility on the following day.

[RCSA §22a-174-22f(d)(2)]

b. Monitoring Requirements

The Permittee shall monitor hours of operation, for each unit of GEU-4, using an hour meter.

[RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

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

(A) The hours of operation, for each unit of GEU-4, for each month and 12 month rolling aggregate.

[RCSA §22a-174-3b(e)(4)]

(B) The date and work performed for repairs, replacement of parts and other maintenance; and

[RCSA §22a-174-22f(g)(3)(B)]

(C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22f.

[RCSA §22a-174-22f(g)(3)(C)]

ii. The Permittee shall maintain records of the sulfur content of the fuel and quantity purchased for combustion in accordance with RCSA §22a-174-3b(h).

iii. The Permittee shall make and keep daily records of the operating hours for each unit in GEU-4.

[RCSA §22a-174-22f(g)(3)(A)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier.

[RCSA §22a-174-33(j)(1)(X)]

2. 40 CFR Part 60 Subpart III Requirements

a. Limitation or Restriction

i. The Permittee shall comply with the emission standards specified in 40 CFR §60.4205(c). The Permittee must comply by purchasing an engine certified to the emission standards in 40 CFR §60.4205(c), for the same model year and maximum engine power. The engine must be installed and configured according to manufacturer's emission-related specifications. [40 CFR §60.4211(c)]

ii. The Permittee shall comply with the applicable compliance requirements in accordance with 40 CFR §60.4211(a).

iii. The Permittee shall comply with the fuel requirements found in 40 CFR §80.510(b).

[40 CFR §60.4207(b)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.E.2.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

F. EMISSIONS UNIT 28 (EU-28): Cold Cleaner No. 1; Safety Kleen Model MDL 44.1; RCSA §22a174-20(l)

1. Operating Conditions

a. Limitation or Restriction

- i. The Permittee shall comply with the following requirements:

[RCSA §22a-174-20(l)(3)]

- (A) Equip EU-28 with a cover that is easily operated with one hand.
- (B) Equip EU-28 with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining.
- (C) Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container.
- (D) Close the cover if parts are not being handled in the cleaner for two minutes or more, or if EU-28 is not in use.
- (E) Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer.
- (F) If a degreasing solvent spray is used:
 - (1) Supply a degreasing solvent spray that is a solid fluid film (not a fine, atomized or shower type spray),
 - (2) Maintain a solvent spray pressure that does not exceed ten pounds per square inch as measured at the pump outlet, and
 - (3) Perform spraying within the confines of EU-28.
- (G) Minimize the drafts across the top of EU-28 such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip.
- (H) Do not operate EU-28 upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling.
- (I) Provide a permanent, conspicuous label on or posed near EU-28 summarizing the applicable operating requirements.
- (J) Use a solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celcius.
- (K) Do not clean sponges, fabric, wood, leather, paper or other absorbent material in EU-28.

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

[RCSA §22a-174-20(l)(3)(J)]

- (A) The type and solvent used, including a description of the solvent and the solvent name,

Section III: Applicable Requirements and Compliance Demonstration

- (B) The vapor pressure of the solvent in mmHg measured at 20 degrees Celsius,
- (C) The percent VOC content by weight, and
- (D) The amount of solvent added to EU-28 on a monthly basis.

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier.

[RCSA §22a-174-33(j)(1)(X)]

G. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
3. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
4. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.

Section III: Applicable Requirements and Compliance Demonstration

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

Section IV: Compliance Schedule

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

Section V: State Enforceable Terms and Conditions

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

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; 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 submitted per the procedure required by the applicable requirement or otherwise in a computer-readable format and addressed to: U.S. EPA New England, 5 Post Office Square, Suite 100 (OES04-2), Boston, Massachusetts 02109, Attn: Air Clerk.

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

Section VI: Title V Requirements

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

Section VI: Title V Requirements

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

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

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

Y. CREDIBLE EVIDENCE

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