



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	117-0261-TV
Client/Sequence/Town/Premises Numbers	8822/23/117/53
Date Issued	February 16, 2021
Expiration Date	February 16, 2026

Corporation:

Shell Oil Products US

Premises Location:

*Shell Oil Products US New Haven Terminal, 481 East Shore Parkway,
New Haven, Connecticut 06512*

Name of Responsible Official and Title:

Michael J. Sullivan, Facilities Manager

All the following attached pages, 2 through 41, are hereby incorporated by reference into this Title V permit.

for 
Betsey C. Wingfield
Deputy Commissioner

2/16/2021
Date

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Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
°F	Degree Fahrenheit
AOS	Alternative Operating Scenario
AP-42	Air Pollutant Emissions Factors, 5 th Edition
API	American Petroleum Institute
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CMS	Continuous Monitoring System
CO	Carbon Monoxide
EPA	Environmental Protection Agency
EU	Emissions Unit
gals	Gallons
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
Hg	Mercury
HP	Horsepower
hr	Hour
kPa	Kilopascal
kW	Kilowatts
lb	Pound
mm	Millimeter
MMBtu	Million British Thermal Unit
MTBE	Methyl <i>tert</i> -Butyl Ether
NO _x	Nitrogen Oxides
NSR	New Source Review
ppm	Parts Per Million
psi	Pounds per Square Inch
psia	Pounds per Square Inch Absolute
RCSA	Regulations of Connecticut State Agencies
RVP	Reid Vapor Pressure
SIC	Standard Industrial Classification Code
SO _x	Sulfur Oxides
SOS	Standard Operating Scenario
TOC	Total Organic Compounds
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid
VRU	Vapor Recovery Unit
yr	Year

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Bulk Petroleum and Chemical Distribution Terminal
Primary SIC: 5171 Petroleum Bulk Stations and Terminals

Facility Mailing Address: Shell Oil Products US
481 East Shore Parkway
New Haven, Connecticut 06512

Telephone Number: (203) 468-4000

B. PREMISES DESCRIPTION

Shell Oil Products US New Haven Terminal (Shell Oil) receives, stores, blends and distributes petroleum products. Products are transported to and from the facility by truck, ship/barge and pipeline. Pollutant emitting operations at the facility include a tank farm, dock for loading and unloading of marine vessels, truck loading and unloading areas, pipeline manifolds, diesel pumps, hot water heaters and small warm air furnaces.

Shell Oil is a major stationary source, as defined in 40 CFR Part 70, with the potential emissions of VOC in excess of 100 tons per year, located in a serious ozone non-attainment area as defined in RCRA Section 22a-174-1(103).

Shell Oil is exempt from 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Specifically, existing emergency engines at residential, commercial, and institutional area sources are not regulated by 40 CFR 63 Subpart ZZZZ. Emergency generator (EU-52) is classified as an existing emergency compression ignition engine of less than 500 HP located at commercial area source of HAP, constructed before June 12, 2006.

Shell Oil is subject to the following federal requirements:

- 40 CFR 60 Subpart Kb for Volatile Organic Liquid Storage Vessels (Construction, Reconstruction or Modification Commenced After July 23, 1984)
- 40 CFR 60 Subpart XX for Bulk Gasoline Terminals (Loading Rack)
- 40 CFR 63 Subpart R for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)

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, Registrations, or Regulations into this Title V permit.

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Grouped Emissions Unit/ Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Registration, or Regulation Number
EU-1	Loading Rack Gasoline and High Vapor Pressure (>1.5 psi) Organic Liquid Truck Loading Rack: 5 Lanes Distillate and Low Vapor Pressure (<1.5 psi) Organic Liquid Truck Loading Rack: 8 Lanes and one Marine Loader Construction Date: 1950s Modified Dates: 1989 and 2014	John Zink Carbon Adsorption/Vapor Recovery Unit (VRU) Back Up: Jordan Technologies Thermal Oxidizing Unit	Permit No. 117-0139 RCSA §22a-174-20(b) RCSA §22a-174-28 40 CFR Part 60 Subpart XX 40 CFR Part 63 Subpart R
GEU-1	EU-9 Tank 24 – 8,899,609 Gallon Aboveground Gasoline Storage Tank Construction Date: 1989	Internal Floating Roof; Primary and Secondary Seals, Controlled Fittings; White Paint	Permit No. 117-0135 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
	EU-10 Tank 25 – 3,829,155 Gallon Aboveground Gasoline Storage Tank Construction Date: 1989	Internal Floating Roof; Primary and Secondary Seals, Controlled Fittings; White Paint	Permit No. 117-0136 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
	EU-11 Tank 26 – 3,823,653 Gallon Aboveground Gasoline Storage Tank Construction Date: 1989	Internal Floating Roof; Mechanical Shoe Seal; White Paint	Permit No. 117-0137 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
	EU-12 Tank 28 – 2,022,314 Gallon Aboveground Gasoline Storage Tank Construction Date: 1989	Internal Floating Roof; Primary and Secondary Seals, Controlled Fittings; White Paint	Permit No. 117-0138 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Grouped Emissions Unit/ Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
GEU-1	EU-22	Tank 21 – 8,800,000 Gallon Aboveground Gasoline Storage Tank Construction Date: 1952 Modified Date: 2014	Internal Floating Roof; Primary and Secondary Seals, White Paint RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
	EU-23	Tank 22 – 9,250,000 Gallon Aboveground Gasoline and High Vapor Pressure (>1.5 psi and <11 psi) Organic Liquid Storage Tank Construction Date: 1952 Modified Date: 2019	Internal Floating Roof; Primary and Secondary Seals, White Paint RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
GEU-2	EU-13	Tank 29 – 2,021,907 Gallon Aboveground Gasoline Storage Tank Construction Date: 1952	Internal Floating Roof; Primary and Secondary Seals, Controlled Fittings; White Paint Registration No. 117-0198-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-14	Tank 30 – 2,935,434 Gallon Aboveground Gasoline Storage Tank Construction Date: 1952	Covered Floating Roof; Primary and Secondary Seals; White Paint Registration No. 117-0199-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-15	Tank 31 – 1,640,611 Gallon Aboveground Gasoline and High Vapor Pressure (>1.5 psi and <11 psi) Organic Liquid Storage Tank Construction Date: 1952 Modification of Registration Date: 1/7/2019	Internal Floating Roof; Mechanical Shoe Seal; White Paint Registration No. 117-0200-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-16	Tank 32 – 1,671,308 Gallon Aboveground Gasoline and High Vapor Pressure (>1.5 psi and <11 psi) Organic Liquid Storage Tank Construction Date: 1952 Modification of Registration Date: 1/7/2019	Covered Floating Roof; Mechanical Shoe Seal; White Paint Registration No. 117-0201-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION				
Grouped Emissions Unit/ Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
GEU-2	EU-17	Tank 33 – 1,166,904 Gallon Aboveground Gasoline and High Vapor Pressure (>1.5 psi and <11 psi) Organic Liquid Storage Tank Construction Date: 1952 Modified Date: 2019	Covered Floating Roof; Primary and Secondary Seals; White Paint	Registration No. 117-0202-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-19	Tank 1 – 4,087,554 Gallon Aboveground Diesel/Gasoline Storage Tank Construction Date: 1963	Covered Exterior Floating Roof; Primary and Secondary Seals; White Paint	Registration No. 117-0204-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-20	Tank 2 – 4,084,106 Gallon Aboveground Gasoline Storage Tank Construction Date: 1963	Covered Exterior Floating Roof; Primary and Secondary Seals; White Paint	Registration No. 117-0205-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-21	Tank 3 – 3,917,793 Gallon Aboveground Gasoline Storage Tank Construction Date: 1963	Covered Exterior Floating Roof; Primary and Secondary Seals; White Paint	Registration No. 117-0206-R RCSA §22a-174-20(a) 40 CFR Part 63 Subpart R
	EU-18	Tank 38 – 3,987,076 Gallon Aboveground Distillate Oil Storage Tank Construction Date: 1952 Modified Date: 2010	Fixed Roof; White Paint	Registration No. 117-0203-R No Other Specific Applicable Requirements
	EU-52	Emergency Generator 1 Maximum Throughput: 1.03 MMBtu/hr; 100 kW Construction Date: 1999	None	RCSA §22a-174-3b(e)

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION		
Identification of Operating Scenario	Emissions Units Associated with the Scenario	Description of Scenario
SOS	EU-1, EU-9 through EU-17, and EU-19 through EU-23	Operations related to storage/transfer of organic liquids having an actual vapor pressure which may exceed 1.5 psi
SOS	EU-52	Operations related to emergency use
AOS	EU-1	Operations related to storage/transfer of organic liquids having an actual vapor pressure not exceeding 1.5 psi

Section III: Applicable Requirements and Compliance Demonstration

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

A. EMISSIONS UNIT 1 (EU-1): LOADING RACK WITH VRU/THERMAL OXIDIZING UNIT

Subject to: Permit No. 117-0139; RCSA §22a-174-20(b); RCSA §22a-174-28; 40 CFR Part 60 Subpart XX & 40 CFR Part 63 Subpart R

1. Throughput (SOS & AOS)

a. Limitation or Restriction

- i. The maximum gasoline loading throughput shall not exceed 900,000,000 gals/yr. [Permit No. 117-0139]
- ii. The maximum overall loading throughput shall not exceed 1,501,080,000 gals/yr. [Permit No. 117-0139]

b. Monitoring Requirements

The Permittee shall monitor the quantity of each material transferred through the loading rack on a daily basis. [Permit No. 117-0139]

c. Record Keeping Requirements

- i. The Permittee shall record the gallons of material transferred through the loading rack on a daily basis for each material transferred. The Permittee shall use the daily records to create logs of monthly throughput for each material. The Permittee shall total the monthly throughputs for each material over every consecutive 12 months and record this value to determine compliance with the throughput limits in Section III.A.1.a of this Title V permit. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 117-0139]
- ii. The Permittee shall maintain documentation of all calculations of the gallons of material transferred through the loading rack for each month and for each consecutive twelve-month period. Documentation of all calculations and assumptions made in converting recorded data to the units necessary for comparison with the throughput limits in Section III.A.1.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

The Permittee shall provide the records specified in Section III.A.1.c of this Title V permit to the commissioner within 30 days of receipt of a written request from the commissioner or such sooner time as the commissioner may require. [RCSA §22a-174-33(j)(1)(X)]

2. VOC (SOS & AOS)

a. Limitation or Restriction

- i. The VOC emissions from the Vapor Recovery Unit (VRU) or the Thermal Oxidizing Unit from the loading of gasoline shall not exceed 10.0 milligrams per liter of gasoline loaded. [Permit No. 117-0139]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The emissions to the atmosphere from the vapor collection and processing systems due to the loading of gasoline cargo tanks shall not exceed 10 milligrams of total organic compounds per liter of gasoline loaded. [Permit No. 117-0139; 40 CFR §63.422(b)]
- iii. The VOC emissions from the VRU and Thermal Oxidizing Unit combined from the loading of gasoline shall not exceed 37.52 tons per year. [Permit No. 117-0139]
- iv. The VOC emissions from the loading rack during distillate loading shall not exceed 3.97 tons per year. [Permit No. 117-0139]
- v. The fugitive emissions from the loading of gasoline shall not exceed 8.0 milligrams of VOC per liter of gasoline loaded. [Permit No. 117-0139]
- vi. The fugitive VOC emissions from the loading of gasoline shall not exceed 30.01 tons per year. [Permit No. 117-0139]
- vii. The total VOC emissions from the loading of gasoline shall not exceed 67.53 tons per year. [Permit No. 117-0139]
- viii. The total VOC emissions from gasoline and distillate loading plus fugitive emissions shall not exceed 71.50 tons per year. [Permit No. 117-0139]
- ix. The minimum hourly average combustion temperature for the Thermal Oxidizing Unit shall not be below 200 °F. [Permit No. 117-0139]

b. Monitoring and Testing Requirements

- i. At least once over any consecutive five year period, the Permittee shall conduct emissions testing of the VRU and Thermal Oxidizing Unit to determine compliance with the VOC control limitations in this Title V permit. [Permit No. 117-0139; RCSA §22a-174-20(b)(2)(B); RCSA §22a-174-5(e)]
- ii. The Permittee shall install, calibrate, certify, operate and maintain a continuous emission monitoring system capable of measuring and recording the organic compound concentration in the exhaust air stream of the VRU when in operation. [Permit No. 117-0139; 40 CFR §63.427(a)(1)]
- iii. The Permittee shall install, calibrate, certify, operate and maintain a continuous monitoring system (CMS) on the Thermal Oxidizing Unit with a flare. The CMS shall be a flame-sensing device, such as an ultraviolet beam sensor or a thermocouple in proximity to the pilot light to indicate the presence of a flame. [Permit No. 117-0139; 40 CFR §63.427(a)(4)]
- iv. If the flame goes out or if there is no flame present in the Thermal Oxidizing Unit, the flame-sensing device shall transmit a signal to shut down the gasoline loading operations. When the Thermal Oxidizing Unit is shutdown, the loading rack shall be automatically shut down unless switched over to the VRU. [Permit No. 117-0139]
- v. The Permittee shall continuously monitor the combustion temperature of the Thermal Oxidizing Unit whenever the loading rack is vented to the thermal oxidizing unit. [Permit No. 117-0139]
- vi. The Permittee shall review all recorded data daily. [Permit No. 117-0139]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of all recorded organic compound concentrations in the exhaust air stream of the VRU. [Permit No. 117-0139]
- ii. The Permittee shall make and keep records of the combustion temperature of the Thermal Oxidizing Unit whenever the loading rack is vented to the thermal oxidizing unit. [Permit No. 117-0139]
- iii. The Permittee shall make and keep records of all recorded temperature data. [Permit No. 117-0139; RCSA §22a-174-33(j)(1)(K)(ii)]
- iv. The Permittee shall make and keep records of all testing, calibration and maintenance of the monitoring and recording equipment. [RCSA §22a-174-33(j)(1)(K)(ii)]
- v. The Permittee shall make and keep records of all calculations, parameters, assumptions, references, and data, including source test data, relevant to the emission factors used to determine the emission rates for such pollutant from these units. [RCSA §22a-174-33(j)(1)(K)(ii)]
- vi. The Permittee shall make and keep records of compliance with the emission limits in Section III.A.2.a of this Title V permit. Compliance shall be met through monitoring data required by this Title V permit and by calculating the emissions factors from the most recent source test data approved by the Department. Where source test data is unavailable, the Permittee shall use data from the equipment vendor. Where source test data and equipment vendor data are unavailable, the Permittee shall use data from EPA's AP-42 emissions factor document. [Permit No. 117-0139]
- vii. The Permittee shall calculate and record monthly and consecutive 12 month emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each scenario) the current month's emissions to that of the previous 11 months. Such records shall include a sample of the calculation for each scenario. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]
- viii. The Permittee shall keep records documenting the results of all tests conducted to determine compliance with the VOC control limitations. [Permit No. 117-0139]
- ix. The Permittee shall make and keep all records to include the date and time of each recorded event. [Permit No. 117-0139]

d. Reporting Requirements

The Permittee shall report to the commissioner within three working days the details of any exceedance of an emission limit and any apparent deviations from the conditions in Section III.A of this Title V permit. [Permit No. 117-0139]

3. Federal HAPs (SOS & AOS)

a. Limitation or Restriction

- i. This source shall not be a major federal hazardous air pollutant (HAP) source. [Permit No. 117-0139]
- ii. No individual federal HAP emitted shall exceed 10 tpy. [Permit No. 117-0139]

Section III: Applicable Requirements and Compliance Demonstration

iii. Total federal HAPs emitted shall not exceed 25 tpy. [Permit No. 117-0139]

b. Monitoring Requirements

The Permittee shall monitor the tons of individual as well as total federal HAPs emitted on a monthly and consecutive 12 month basis. [RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of compliance with the emission limits in Section III.A.3.a of this Title V permit. Compliance shall be met through monitoring data required by this Title V permit and by calculating the emissions factors from the most recent source test data approved by the Department. Where source test data is unavailable, the Permittee shall use data from the equipment vendor. Where source test data and equipment vendor data are unavailable, the Permittee shall use data from EPA's AP-42 emissions factor document. [Permit No. 117-0139]
- ii. For each federal HAP emitted, the Permittee shall make and keep records of monthly and consecutive 12 month emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each federal HAP) the current month's emissions to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. For all federal HAPs emitted combined, the Permittee shall make and keep records of monthly and consecutive 12 month total federal HAP emissions in units of tons. The consecutive 12 month emissions shall be determined by adding the current month's total federal HAPs emissions to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

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

4. Collection of Organic Compounds (SOS)

a. Limitation or Restriction

- i. The Permittee shall vent all gasoline loading rack emissions to either the VRU or the Thermal Oxidizing Unit at all times. [Permit No. 117-0139; RCSA §22a-174-20(b)(2)(A)]
- ii. The Permittee shall operate the equipment to which the loading rack emissions are vented at all times that the loading rack is in operation or emitting air pollutants. This equipment includes all instruments which measure those source operating parameters which affect air pollutant emissions, air pollution control equipment, or any other instrument which measure data required by permit, order or regulation. [Permit No. 117-0139]
- iii. The gasoline loading racks shall be equipped with a vapor collection system designed to collect the TOC vapors displaced from tank trucks during product loading. [RCSA §22a-174-20(b)(3); 40 CFR §63.422(a); 40 CFR §60.502(a)]

Section III: Applicable Requirements and Compliance Demonstration

- iv. The collection system shall be designed to prevent any total organic compounds vapors collected at one loading rack from passing to another loading rack. [40 CFR §63.422(a); 40 CFR §60.502(d)]
- v. No pressure-vacuum vent in the vapor collection system shall begin to open at a system pressure of less than 4,500 pascals (450 mm of water). [40 CFR §63.422(a); 40 CFR §60.502(i)]

b. Monitoring and Testing Requirements

- i. Each calendar month, the vapor collection system, vapor processing system, and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for total organic compounds liquid or vapor leaks. [40 CFR §60.502(j)]
- ii. The Permittee shall conduct a performance test on the vapor processing system according to the test methods and procedures in 40 CFR §60.503, except a reading of 500 ppm shall be used to determine the level of leaks to be repaired under 40 CFR §60.503(b). [40 CFR §63.425(a)]
- iii. For each performance test conducted on the vapor processing and collection systems, the Permittee shall determine a monitored operating parameter value for the vapor processing system using the following procedure: [40 CFR §63.425(b)]
 - (A) During the performance test, the Permittee shall continuously record the operating parameter under 40 CFR §63.427(a);
 - (B) The Permittee shall determine an operating parameter value based on the parameter data monitored during the performance test, supplemented by engineering assessments and the manufacturer's recommendations; and
 - (C) The Permittee shall provide for the commissioner/Administrator's approval of the rationale for the selected operating parameter value, and monitoring frequency and averaging time, including data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the emission standard in 40 CFR §63.422(b).
- iv. The Permittee shall operate and maintain the VRU and Thermal Oxidizing Unit in accordance with the manufacturer's specifications and written recommendations. [Permit No. 117-0139]

c. Record Keeping Requirements

- i. The Permittee shall make and keep a record of each monthly leak inspection required under 40 CFR §60.502(j). Inspection records include the date of inspection, findings (may indicate no leaks discovered; or location, nature, and severity of each leak), leak determination method, corrective action (date leak repaired, reason for any repair interval in excess of 15 days) and inspector name and signature. [40 CFR §60.505(c)]
- ii. The Permittee shall keep an up to date, readily accessible record of the continuous monitoring system data. This record shall indicate the time intervals during which loading of gasoline cargo tanks have occurred or, alternatively, shall record the operating parameter data for each loading. The date and time of day shall also be indicated at reasonable intervals on this record. [40 CFR §63.428(c)(1)]
- iii. The Permittee shall keep records of all replacements or additions of components or parts on an existing vapor processing systems and records of all repairs and maintenance done on the vapor

Section III: Applicable Requirements and Compliance Demonstration

processing systems for at least three years. [40 CFR §60.505(f)]

- iv. For each performance tests performed on the vapor processing systems by the Permittee after the initial test, the Permittee shall document the reasons for any change in the operating parameter value since the previous performance test. [40 CFR §63.425(c)]
- v. Documentation of all design specifications as necessary to demonstrate compliance with the requirements. [RCSA §22a-174-33(j)(1)(K)]
- vi. Written copies of all vendor recommendations with respect to equipment operation and maintenance. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit an excess emissions report to the commissioner/Administrator semiannually in accordance with 40 CFR §63.428(h) and 40 CFR §63.10(e)(3). [40 CFR §63.428(h)]

5. Vapor-Tight Gasoline Cargo Tanks (SOS & AOS)

a. Limitation or Restriction

- i. The Permittee shall act to assure that loadings of gasoline tank trucks at the premises are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system. [40 CFR §63.422(a); 40 CFR §60.502(f)]
- ii. The gasoline loading racks shall be equipped with loading arms that have a vapor collection adapter, pneumatic, hydraulic, or other mechanical means to force a vapor-tight seal between the adapter and the hatch. A means shall be provided to prevent liquid organic compound drainage from the loading device when it is removed from the hatch of any cargo tank or to accomplish complete drainage before such removal. When loading is effected through means other than hatches, all loading and vapor lines shall be equipped with fittings which make vapor-tight connections and which close automatically when disconnected. [RCSA §22a-174-20(b)(3)]
- iii. Loading of liquid product into gasoline cargo tanks shall be limited to vapor-tight gasoline cargo tanks using the following procedures: [40 CFR §60.502(e); 40 CFR §63.422(c)(2)]
 - (A) The Permittee shall obtain the vapor tightness documentation as described in Section III.5.c.1 of this Title V permit for each gasoline cargo tank which is to be loaded at the premises. [40 CFR §60.502(e)(1)]
 - (B) The Permittee shall require the gasoline cargo tank's identification number to be recorded as each gasoline cargo tank is loaded at the premises. [40 CFR §60.502(e)(2)]
 - (C) The Permittee shall cross-check each gasoline cargo tank's identification number, with the file of gasoline cargo tank vapor tightness documentation within two weeks after the corresponding gasoline cargo tank is loaded unless either of the conditions of 40 CFR §60.502(e)(3)(i)(A) or (B) is maintained. [40 CFR §60.502(e)(3)]
 - (D) The Permittee shall notify the owner or operator of each non-vapor-tight gasoline cargo tank loaded at the affected facility within one week of the documentation cross-check. [40 CFR §60.502(e)(4)]

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- (E) The Permittee shall take steps assuring that the nonvapor-tight gasoline cargo tank will not be reloaded at the facility until vapor tightness documentation for that gasoline cargo tank is obtained which documents that: [40 CFR §63.422(c)(2)]
- (1) the gasoline cargo tank meets the applicable test requirements in 40 CFR §63.425(e); and
 - (2) for each gasoline cargo tank failing the leak detection test in 40 CFR §63.425(f) or (g) at the facility, the cargo tank either:
 - (a) Before repair work is performed on the cargo tank, meets the test requirements in 40 CFR §63.425(g) or (h), or
 - (b) After repair work is performed on the cargo tank before or during the tests in 40 CFR §63.425 (g) or (h), subsequently passes the annual certification test described in 40 CFR §63.425(e).
- iv. Alternate procedures to those described in Section III.A.5.a.iii of this Title V permit, for limiting gasoline cargo tank loadings may be used upon application to, and approval by, the Administrator. [40 CFR §60.502(e)(6)]
- v. The Permittee shall act to assure that the terminal and the tank truck's vapor collection systems are connected during each loading of a gasoline tank truck at the affected facility. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks. [40 CFR §60.502(g)]
- vi. The Permittee shall operate the vapor collection and liquid loading equipment to prevent gauge pressure in the delivery tank from exceeding 4,500 pascals (450 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR §60.503(d). [40 CFR §60.502(h)]

b. Monitoring Requirements

The maintenance of the records required in Section III.A.5.c of this Title V permit shall fulfill the monitoring requirements. [RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

- i. The tank truck vapor tightness documentation required under 40 CFR §60.502(e)(1) shall be kept on file in a permanent form available for inspection. [40 CFR §60.505(a)]
- ii. The documentation file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by Method 27. This documentation shall include the requirements of 40 CFR §§60.505(b)(1)–(8), inclusive and 40 CFR §63.428(b)(1)–(3), inclusive. [40 CFR §60.505(b); 40 CFR §63.428(b)]
- iii. The tank identification number of each gasoline cargo tank as it is loaded at the facility. [40 CFR §60.502(e)(2)]
- iv. Documentation certifying that the Permittee has cross-checked the identification number of each gasoline tank loaded with corresponding vapor tightness test results within two weeks after the tank is loaded. Cross-checking may be conducted on a quarterly basis if less than an average of one gasoline

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cargo tank per month over the last 26 weeks is loaded without vapor tightness documentation. Cross-checking may be conducted semiannually if less than an average of one gasoline cargo tank per month over the last 52 weeks is loaded without the vapor tightness documentation. If quarterly or semiannual cross-checking reveals that the required conditions are not maintained the Permittee shall immediately return to biweekly monitoring until such time as the required conditions are again met. [40 CFR §60.502(e)(3)]

- v. Documentation certifying that the Permittee has notified the owner or operator of each non-vapor-tight gasoline cargo tank loaded within one week of the cross-check which revealed the incident. [40 CFR §60.502(e)(4)]
- vi. The Permittee shall keep documentation of all notifications required in 40 CFR §60.502(e)(4) on file at the terminal for at least two years. [40 CFR §60.505(d)]
- vii. Documentation certifying that the Permittee has taken steps to assure that a nonvapor-tight cargo tank is not reloaded at the facility until proper vapor tightness documentation is obtained. [40 CFR §63.422(c); 40 CFR §60.502(e)(5)]

d. Reporting Requirements

- i. The Permittee shall submit an excess emissions report to the Administrator/commissioner in accordance with 40 CFR §63.10(e)(3), whether or not a CMS is installed at the facility. The following occurrences are excess emissions events under this subpart, and the following information shall be included in the excess emissions report, as applicable: [40 CFR §63.428(h)]
 - (A) Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under 40 CFR §63.425(b). The report shall include the monitoring data for the days on which exceedances or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing systems or the CMS.
 - (B) Each instance of a non vapor-tight gasoline cargo tank loading at the facility in which the Permittee failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.
 - (C) Each reloading of a non vapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with 40 CFR §63.422(c)(2).
 - (D) For each occurrence of an equipment leak for which no repair attempt was made within five days or for which repair was not completed within 15 days after detection:
 - (1) The date on which the leak was detected;
 - (2) The date of each attempt to repair the leak;
 - (3) The reasons for the delay of repair; and
 - (4) The date of successful repair.

6. TSP, NO_x, SO_x, CO (SOS & AOS)

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a. Limitation or Restriction

- i. TSP emissions shall not exceed 0.23 tpy. [Permit No. 117-0139]
- ii. NO_x emissions shall not exceed 5.40 tpy. [Permit No. 117-0139]
- iii. SO_x emissions shall not exceed 0.20 tpy. [Permit No. 117-0139]
- iv. CO emissions shall not exceed 29.8 tpy. [Permit No. 117-0139]

b. Monitoring Requirements

The Permittee shall ensure an accurate fuel metering device is installed to continuously monitor the fuel feed to the Thermal Oxidizing Unit. [Permit No. 117-0139]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of monthly and consecutive 12 month emissions of TSP, NO_x, SO_x and CO 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. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. Demonstration of compliance with emission limits shall be met through monitoring data required by this Title V permit and by calculating the emissions factors from the most recent source test data approved by the Department. Where source test data is unavailable, the Permittee shall use data from the equipment vendor. Where source test data and equipment vendor data are unavailable, the Permittee shall use data from EPA's AP-42 emissions factor document. [Permit No. 117-0139]
- iii. The Permittee shall make and keep records of the daily fuel usage by the Thermal Oxidizing Unit. [Permit No. 117-0139]

d. Reporting Requirements

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

7. Oxygenated Gasoline

a. Limitation or Restriction

The Permittee shall not provide, deliver, offer for sale, sell, or exchange in trade to any retailer or wholesale purchaser-consumer for use in a Control Area any gasoline which is not oxygenated gasoline during the Control Period for such Control Area except where an emergency exemption has been issued by the commissioner pursuant to RCSA §22a-174-28(g). [RCSA §22a-174-28(b)(1)]

b. Monitoring and Testing Requirements

- i. The Permittee when determining the oxygen content by weight of gasoline, shall use the values listed in RCSA §22a-174-28, Table 28-1 and the procedures listed in RCSA §22a-174-28(c)(2) through

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- (c)(4). All volume measures shall be adjusted to 60 °F. [RCSA §22a-174-28(c)(1)]
- ii. The Permittee, when determining the oxygen content by weight of gasoline, shall obtain a representative sample in accordance with EPA's sampling procedures as detailed in Title 40 CFR Part 80, Appendix D. [RCSA §22a-174-28(c)(2)]
 - iii. The Permittee, when determining the oxygen content by weight of gasoline, shall determine the mass concentration of each oxygenate in the sample by one of the following test method:
[RCSA §§22a-174-28(c)(3)(A) and (B)]
 - (A) ASTM Method 4815-89 (ASTM standard test method for determination of C₁ TO C₄ alcohols and MTBE in gasoline by gas chromatography); or
 - (B) Appendix C to EPA's Supplemental Notice of Proposed Guidelines for Oxygenated Gasoline Credit Programs under Section 211(m) of the Clean Air Act as amended, printed in the February 5, 1992 Federal Register (57 FR 4444); and
 - iv. The Permittee, when determining the oxygen content by weight of gasoline, shall calculate the oxygen content by weight by using the oxygen content conversion procedures from EPA's Supplemental Notice of Proposed Guidelines for Oxygenated Gasoline Credit Programs under Section 211(m) of the Clean Air Act as amended, printed in the February 5, 1992 Federal Register (57 FR 4425). [RCSA §22a-174-28(c)(4)]
- c. *Record Keeping Requirements*
- i. The Permittee shall maintain records at such terminal containing the following information regarding oxygenated gasoline: [RCSA §22a-174-28(d)(1)(A) through (D)]
 - (A) The owner(s) of the gasoline;
 - (B) Volume of each delivery going into or out of the terminal;
 - (C) Type and percentage by volume of oxygenate in the gasoline being delivered if available;
 - (D) Oxygen content by weight of each delivery received at the terminal;
 - (E) The date of such sale or transfer; and
 - (F) Results of tests for oxygenate, including the test method and sampling procedure and the name of the person or company who performed such tests.
 - ii. The Permittee shall maintain copies of transfer documents specified in RCSA §22a-174-28(e) for each delivery of gasoline during the Control Period for such Control Area.
[RCSA §22a-174-28(d)(3)]
- d. *Reporting Requirements*

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

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B. GROUPED EMISSIONS UNIT 1 (GEU-1): TANKS (EU-9 through EU-12, EU-22, and EU-23)

Subject to: Permit Nos. 117-0135, 117-0136, 117-0137, and 117-0138 (EU-9 through EU-12); RCSA §22a-174-20(a); 40 CFR Part 60 Subpart Kb & 40 CFR Part 63 Subpart R

1. Throughput (SOS)

a. Limitation or Restriction

i. The Permittee shall not exceed the following gasoline throughputs:

(A) EU-9: 2 Billion gallons per year [Permit No. 117-0135]

(B) EU-10: 750 Million gallons per year [Permit No. 117-0136]

(C) EU-11: 750 Million gallons per year [Permit No. 117-0137]

(D) EU-12: 360 Million gallons per year [Permit No. 117-0138]

b. Monitoring Requirements

The Permittee shall monitor the throughput of gasoline for EU-9 through EU-12, individually, for each month and consecutive 12 month period. [RCSA §22a-174-33(j)(1)(K)]

c. Record Keeping Requirements

The Permittee shall make and keep records of the throughput of gasoline for each storage tank in GEU-1 for each month and consecutive 12 month period. The consecutive 12 month throughput shall be determined by adding the current month's consumption for each tank to that of the previous 11 months for such tank. The Permittee shall make such records within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

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

2. VOC (SOS)

a. Limitation or Restriction

i. The VOC emissions shall not exceed:

(A) EU-9: 4.27 lb/hr and 18.71 tpy [Permit No. 117-0135]

(B) EU-10: 1.88 lb/hr and 8.20 tpy [Permit No. 117-0136]

(C) EU-11: 1.88 lb/hr and 8.20 tpy [Permit No. 117-0137]

(D) EU-12: 1.03 lb/hr and 4.51 tpy [Permit No. 117-0138]

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- ii. The Permittee shall store volatile organic liquid with a vapor pressure less than 11 psia (568 mm Hg) under actual storage conditions. [RCSA §22a-174-20(a)(2)(B)]
- iii. The Permittee shall install on all storage vessels a fixed roof in combination with an internal floating roof to control VOC in accordance with 40 CFR §60.112b and as specified in 40 CFR §63.423. [40 CFR §60.112b(a); 40 CFR §63.423; Permit Nos. 117-0135, 117-0136, 117-0137, 117-0138]
- iv. Between May 1 and September 15 of every year, the Permittee shall not offer for sale, sell or deliver to any dispensing facility in Connecticut, gasoline with a Reid Vapor Pressure in excess of 9.0 psi. [RCSA §22a-174-20(a)(11)]
- v. The Permittee shall install on each tank, a fixed roof and floating roof which will rest on the surface of the liquid contents and be equipped with a closure seal or seals to close the space between the roof edge and the tank wall. [RCSA §22a-174-20(a)(2)(B)]
- vi. The Permittee shall equip each internal floating roof with a closure device between the wall of the storage vessel and the edge of the internal floating roof in accordance with 40 CFR §60.112b(a)(1)(ii). [40 CFR §60.112b]
- vii. For each tank, if any piping, valves, vents, seals, gaskets or covers of roof openings are found to have defects or visible gaps or the VOC control requirements of RCSA §22a-174-20(a) are not met, the Permittee shall:
 - (A) If the tank is not storing liquid, complete repairs or replacements prior to filling the tank;
 - (B) If the tank is storing liquid, complete the repairs or replacements or remove the tank from service within 45 days after discovery of the defect or visible gap. If the Permittee anticipates that a repair or replacement cannot be completed or the tank cannot be emptied within such 45 day period, the Permittee shall notify the commissioner prior to the end of such 45 day period. The Permittee shall make repairs or completely empty the tank as soon as possible; and
 - (C) Any evidence of leakage as described in RCSA §22a-174-20(a) shall also be treated as a malfunction of control equipment as described in RCSA §22a-174-7. [RCSA §22a-174-20(a)(4)]
- viii. The external surface of each tank shall be either mill-finished aluminum or painted and maintained white. The mill aluminum or white paint shall not apply to words or logograms applied to the external surface for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet, whichever is less. [RCSA §22a-174-20(a)(7)]

b. Monitoring Requirements

- i. For storage vessels operated above or below ambient temperatures, the maximum true vapor pressure shall be calculated by the Permittee based upon the highest expected calendar-month average of the storage temperature. For storage vessels operated at ambient temperatures, the maximum true vapor pressure shall be calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR §60.116b(e)(1)]
- ii. Samples to be analyzed for RVP shall be collected and handled according to the applicable procedures in ASTM Method D 5842-95 (2000), "Standard Practice for Sampling and Handling of Fuels for Volatility Measurement". [RCSA §22a-174-20(a)(13)]

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- iii. The Permittee shall determine vapor pressure for the storage vessels storing crude oil or refined petroleum product in one of the following ways: [40 CFR §60.116b(e)(2)]
- (A) By the available data on the Reid Vapor Pressure (RVP) and the maximum expected storage temperature. The maximum expected storage temperature shall be based on the highest expected calendar month average temperature of the stored product. This temperature shall be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference herein (See 40 CFR §60.17). Notwithstanding the above, the liquid shall be sampled, the actual storage temperature determined, and the RVP determined from the sample(s) upon written request by the commissioner and Administrator; or
- (B) By the true vapor pressure of each type of crude oil with a RVP less than 13.8 kPa (2.00 psia). When physical properties preclude determination of the vapor pressure by this method, the vapor pressure shall be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa (0.508 psia).
- iv. For other liquids, the Permittee shall determine the vapor pressure from standard reference texts, or [40 CFR §60.116b(e)(3)]
- v. The Permittee shall determine compliance with the RVP of gasoline to be sold or delivered by the Permittee to any dispensing facility in Connecticut, by using the following ASTM test method D5191-07 (2007), except the following correlation equation shall be used: [RCSA §22a-174-20(a)(14)]
- RVP psi = (0.956 * X) – 0.347; where X is the total measured vapor pressure.
- vi. The Permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears or other openings in the primary seal, the secondary seal or the seal fabric or defects in the internal floating roof, or both, the items shall be repaired prior to filling the storage vessel. [40 CFR §60.113b(a)(1); 40 CFR §63.425(d)]
- vii. The Permittee shall conduct annual visual inspection of the closure devices between the wall of the storage device and the edge of the internal floating roof through roof hatches in accordance with 40 CFR §§60.113b(a)(2) and (3). [40 CFR §63.425(d)]
- viii. For storage tanks equipped with a liquid-mounted or mechanical shoe primary seal, the Permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the Permittee shall repair, before refilling the storage vessel with VOL, the items as necessary so that none of the conditions specified in this paragraph exist. The timing of these inspections shall be carried out in accordance 40 CFR §60.113b(a)(4). [40 CFR §60.113b(a)(4)]
- ix. The Permittee shall conduct a monthly inspection of the floating roof deck, deck fittings and rim seal system through the roof hatches of the fixed roof to determine compliance with the requirements of RCSA §22a-174-20(a)(2)(B). [RCSA §22a-174-20(a)(3)(A)]

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- x. Whenever the tank is emptied and degassed, but no less than once every ten years, the Permittee shall conduct an inspection from within the tank, or from top side of the floating roof as long as there is visual access to all deck components, by: [RCSA §§22a-174-20(a)(3)(B); -20(a)(3)(C)]
 - (A) Visually inspecting the floating roof deck, deck fittings and rim seal system to determine with the requirements of RCSA §22a-174-20(a)(2)(B) and ensure that the seal between the floating roof and the tank wall is uniform; and
 - (B) Physically measuring gaps between any deck fitting gasket, seal or wiper and any surface that such gasket, seal or wiper is intended to seal. Gaps shall not exceed 0.125 inches.
 - xi. The Permittee shall operate and maintain each tank to ensure that there are no visible holes, tears or other openings in the seal or any seal fabric or materials. [RCSA §22a-174-20(a)(2)(B)(i)]
 - xii. The Permittee shall operate and maintain each tank to ensure that all openings except stub drains are equipped with covers, lids or seals such that: [RCSA §22a-174-20(a)(2)(B)(ii)]
 - (A) the cover, lid or seal is in the closed position at all times except in actual use;
 - (B) automatic bleeder vents are closed at all times except when the roof is being floated off or being landed on the roof leg supports; and
 - (C) rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.
 - xiii. The Permittee shall operate and maintain each tank to ensure all tank gauging or sampling devices are gas-tight except when gauging or sampling is taking place. [RCSA §22a-174-20(a)(2)(B)(iii)]
 - xiv. The Permittee shall operate and maintain each tank to ensure that no liquid accumulates on the top of the floating roof. [RCSA §22a-174-20(a)(2)(B)(iv)]
 - xv. The Permittee shall not perform degassing of an aboveground storage tank during the period from June 1 through August 31 of any calendar year except for the purposes of performing a repair that is necessary for safe and proper function of the tank. [RCSA §22a-174-20(a)(9)(A)]
 - xvi. The Permittee shall clean an aboveground storage tank using one or more of the cleaning agents listed in RCSA §22a-174-20(a)(9)(C)(i) or steam cleaning. [RCSA §22a-174-20(a)(9)(C)]
- c. *Record Keeping Requirements*
- i. The Permittee shall make and keep records of monthly and consecutive 12 month emissions of VOC for each storage tank in GEU-1 in units of tons. The consecutive 12 month emissions shall be determined by adding (for each tank) the current month's emissions to that of the previous 11 months. The VOC emissions from each storage vessel shall be calculated by the Permittee using EPA Tanks Program, Version 4.09d or equivalent. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]
 - ii. Records of the results of all the inspections performed shall be maintained by the Permittee and kept for a minimum of five years after such record is made. Each record shall include, at a minimum, the identification of the storage vessel on which the inspection was performed, whether the storage vessel was filled or emptied and degassed, the date the vessel was inspected, the name of the inspector, a

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check off list to show what was inspected, and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
[40 CFR §60.115b(a)(2); 40 CFR §63.428(d)]

- iii. For the life of each storage vessel, the Permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
[40 CFR §60.116b(b)]
- iv. The Permittee shall maintain a record of the VOL stored, the period of storage, monthly throughput, the average monthly storage temperature, and the maximum true vapor pressure of that VOL during the respective storage period. [40 CFR §60.116b(c)]
- v. The Permittee shall maintain records of the following information [RCSA §22a-174-20(a)(10)(B)]:
 - (A) Type of VOC stored, vapor pressure, monthly throughput, a Material Safety Data Sheet or Environmental Data Sheet for each VOC stored and records of inspections conducted, including but not limited to, date of inspection, results and corrective actions taken, if applicable;
 - (B) Documentation of control device efficiency and capture efficiency, using an applicable EPA reference method or alternate method as approved by the commissioner and the Administrator;
 - (C) Date and type of maintenance performed on air pollution control equipment;
 - (D) Documentation of any leak detected, including, but not limited to, the date the leak was detected, location of the leak, type of repair made and the date of repair and explanation of the reason for delaying repair, if applicable;
 - (E) For each floating roof landing event, the tank contents before landing and after refilling, landed height of the floating roof, height of any liquid remaining in the bottom of the tank after landing, duration of the landing and landing emissions calculated using AP-42 Chapter 7 methodology;
 - (F) Dates of all tank degassing activities performed;
 - (G) Date, cleaning method and cleaning agents used for any cleaning performed on a tank; and
 - (H) Any approval by the commissioner or Administrator issued pursuant to RCSA §22a-174-20(a).
- vi. The Permittee shall maintain and keep copies of all records (including the inspections conducted) for at least five years, unless specified otherwise. [40 CFR §63.428(d)]
- vii. The Permittee shall maintain records of fuel shipments to each tank, and upon the completion of each shipment, make a record of the total quantity of all fuel shipped to the tank during the past 30 days. On a monthly basis, document the total gallons of fuel delivered to the tank over the past month and over the past twelve months. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall furnish the commissioner/Administrator with a report that describes the control equipment and certifies that the control equipment meets the specification of 40 CFR §60.112b and 40 CFR §60.113b(a)(1). This report shall be an attachment to the notification of the actual date of initial startup as required by 40 CFR §60.7(a)(3). [40 CFR §60.115b(1)]

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- ii. The Permittee shall notify the commissioner/Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR §§ 60.113b(a)(1) and (4) to afford the commissioner/Administrator the opportunity to have an observer present. [40 CFR §63.425(d); 40 CFR §60.113b(a)(5)]
- iii. If the inspection required by 40 CFR §60.113b(a)(4) is not planned and the Permittee could not have known about the inspection 30 days in advance or refilling the tank, the Permittee shall notify the commissioner/Administrator at least seven days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that the Administrator receives it at least seven days prior to the refilling. [40 CFR §63.425(d); 40 CFR §60.113b(a)(5)]
- iv. If any of the following defects; the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, are observed by the Permittee during the annual visual inspection of the internal floating roof and the installed closure device, a report shall be furnished by the Permittee to the commissioner/Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of the repair and the date the repair was made. [40 CFR §63.428(d); 40 CFR §60.115b(a)(3)]
- v. The Permittee shall notify the commissioner in writing of any planned changes to a storage vessel not less than 30 days before the changes are performed. [RCSA §22a-174-33(j)(1)(K)(ii)]
- vi. The Permittee shall notify the commissioner prior to the end of the 45 day period if it is anticipated that a repair or replacement being made in accordance with RCSA §22a-174-20(a)(4) cannot be completed or the tank cannot be emptied within such 45 day period. [RCSA §22a-174-20(a)(4)]
- vii. The Permittee shall notify the commissioner within 72 hours of completing the degassing and repair in accordance with RCSA §22a-174-20(a)(9)(B) when a tank is emptied and degassed for the purpose of performing a repair that is necessary for the safe and proper function of the tank. [RCSA §22a-174-20(a)(9)(B)]

C. GROUPED EMISSIONS UNIT 2 (GEU-2): TANKS (EU-13 through EU-17 & EU-19 through EU-21)

Subject to: RCSA §22a-174-2 Registration; RCSA §22a-174-20(a) & 40 CFR Part 63 Subpart R

1. VOC (SOS)

a. Limitation or Restriction

- i. The Permittee shall store volatile organic liquid with a vapor pressure less than 11 psia (568 mm Hg) under actual storage conditions. [RCSA §22a-174-20(a)(2)(B)]
- ii. The Permittee shall install on all storage vessels a fixed roof in combination with an internal floating roof to control VOC as specified in 40 CFR §63.423. [40 CFR §63.423]
- iii. Between May 1 and September 15 of every year, the Permittee shall not offer for sale, sell or deliver to any dispensing facility in Connecticut, gasoline with a Reid Vapor Pressure in excess of 9.0 psi.

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[RCSA §22a-174-20(a)(11)]

- iv. The Permittee shall install on each tank, a fixed roof and floating roof which will rest on the surface of the liquid contents and be equipped with a closure seal or seals to close the space between the roof edge and the tank wall. [RCSA §22a-174-20(a)(2)(B)]
- v. For each tank, if any piping, valves, vents, seals, gaskets or covers of roof openings are found to have defects or visible gaps or the VOC control requirements of RCSA §22a-174-20(a) are not met, the Permittee shall: [RCSA §22a-174-20(a)(4)]
 - (A) If the tank is not storing liquid, complete repairs or replacements prior to filling the tank;
 - (B) If the tank is storing liquid, complete the repairs or replacements or remove the tank from service within 45 days after discovery of the defect or visible gap. If the Permittee anticipates that a repair or replacement cannot be completed or the tank cannot be emptied within such 45 day period, the Permittee shall notify the commissioner prior to the end of such 45 day period. The Permittee shall make repairs or completely empty the tank as soon as possible; and
 - (C) Any evidence of leakage as described in RCSA §22a-174-20(a) shall also be treated as a malfunction of control equipment as described in RCSA §22a-174-7.
- vi. The external surface of each tank shall be either mill-finished aluminum or painted and maintained white. The mill aluminum or white paint shall not apply to words or logograms applied to the external surface for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet, whichever is less. [RCSA §22a-174-20(a)(7)]

b. Monitoring Requirements

- i. Samples to be analyzed for RVP shall be collected and handled according to the applicable procedures in ASTM Method D 5842-95 (2000), "Standard Practice for Sampling and Handling of Fuels for Volatility Measurement." [RCSA §22a-174-20(a)(13)]
- ii. The Permittee shall determine compliance with the RVP of gasoline to be sold or delivered by the Permittee to any dispensing facility in Connecticut, by using the following ASTM test method D5191-07 (2007), except the following correlation equation shall be used: [RCSA §22a-174-20(a)(14)]
$$\text{RVP psi} = (0.956 * X) - 0.347; \text{ where X is the total measured vapor pressure}$$
- iii. The Permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears or other openings in the primary seal, the secondary seal or the seal fabric or defects in the internal floating roof, or both, the items shall be repaired prior to filling the storage vessel. [40 CFR §63.425(d)]
- iv. The Permittee shall conduct annual visual inspection of the closure devices between the wall of the storage device and the edge of the internal floating roof through roof hatches in accordance with 40 CFR §§60.113b(a)(2) and (3). [40 CFR §63.425(d)]
- v. The Permittee shall conduct a monthly inspection of the floating roof deck, deck fittings and rim seal system through the roof hatches of the fixed roof to determine compliance with the requirements of

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RCSA §22a-174-20(a)(2)(B). [RCSA §22a-174-20(a)(3)(A)]

- vi. Whenever the tank is emptied and degassed, but not less than once every ten years, the Permittee shall conduct an inspection from within the tank by: [RCSA §22a-174-20(a)(3)(B)]
 - (A) Visually inspecting the floating roof deck, deck fittings and rim seal system to determine with the requirements of RCSA §22a-174-20(a)(2)(B) and ensure that the seal between the floating roof and the tank wall is uniform; and
 - (B) Physically measuring gaps between any deck fitting gasket, seal or wiper and any surface that such gasket, seal or wiper is intended to seal. Gaps shall not exceed 0.125 inches.
 - vii. The Permittee shall operate and maintain each tank to ensure that there are no visible holes, tears or other openings in the seal or any seal fabric or materials. [RCSA §22a-174-20(a)(2)(B)(i)]
 - viii. The Permittee shall operate and maintain each tank to ensure that all openings except stub drains are equipped with covers, lids or seals such that: [RCSA §22a-174-20(a)(2)(B)(ii)]
 - (A) the cover, lid or seal is in the closed position at all times except in actual use;
 - (B) automatic bleeder vents are closed at all times except when the roof is being floated off or being landed on the roof leg supports; and
 - (C) rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.
 - ix. The Permittee shall operate and maintain each tank to ensure all tank gauging or sampling devices are gas-tight except when gauging or sampling is taking place. [RCSA §22a-174-20(a)(2)(B)(iii)]
 - x. The Permittee shall operate and maintain each tank to ensure that no liquid accumulates on the top of the floating roof. [RCSA §22a-174-20(a)(2)(B)(iv)]
 - xi. The Permittee shall not perform degassing of an aboveground storage tank during the period from June 1 through August 31 of any calendar year except for the purposes of performing a repair that is necessary for safe and proper function of the tank. [RCSA §22a-174-20(a)(9)(A)]
 - xii. The Permittee shall clean an aboveground storage tank using one or more of the cleaning agents listed in RCSA §22a-174-20(a)(9)(C)(i) or steam cleaning. [RCSA §22a-174-20(a)(9)(C)]
- c. *Record Keeping Requirements*
- i. The Permittee shall make and keep records of monthly and consecutive 12 month emissions of VOC for each storage tank in GEU-2 in units of tons. The consecutive 12 month emissions shall be determined by adding (for each tank) the current month's emissions to that of the previous 11 months. The VOC emissions from each storage vessel shall be calculated by the Permittee using EPA Tanks Program, Version 4.09d or equivalent. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-33(j)(1)(K)(ii)]
 - ii. Records of the results of all the inspections performed shall be maintained by the Permittee and kept for a minimum of five years after such record is made. Each record shall include, at a minimum, the identification of the storage vessel on which the inspection was performed, whether the storage vessel was filled or emptied and degassed, the date the vessel was inspected, the name of the inspector, a

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check off list to show what was inspected, and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). [40 CFR §63.428(d)]

- iii. For the life of each storage vessel, the Permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iv. The Permittee shall maintain a record of the VOL stored, the period of storage, monthly throughput, the average monthly storage temperature, and the maximum true vapor pressure of that VOL during the respective storage period. [RCSA §22a-174-33(j)(1)(K)(ii)]
- v. The Permittee shall maintain records of the following information: [RCSA §22a-174-20(a)(10)(B)]
 - (A) Type of VOC stored, vapor pressure, monthly throughput, a Material Safety Data Sheet or Environmental Data Sheet for each VOC stored and records of inspections conducted, including but not limited to, date of inspection, results and corrective actions taken, if applicable;
 - (B) Documentation of control device efficiency and capture efficiency, using an applicable EPA reference method or alternate method as approved by the commissioner and the Administrator;
 - (C) Date and type of maintenance performed on air pollution control equipment;
 - (D) Documentation of any leak detected, including, but not limited to, the date the leak was detected, location of the leak, type of repair made and the date of repair and explanation of the reason for delaying repair, if applicable;
 - (E) For each floating roof landing event, the tank contents before landing and after refilling, landed height of the floating roof, height of any liquid remaining in the bottom of the tank after landing, duration of the landing and landing emissions calculated using AP-42 Chapter 7 methodology;
 - (F) Dates of all tank degassing activities performed;
 - (G) Date, cleaning method and cleaning agents used for any cleaning performed on a tank; and
 - (H) Any approval by the commissioner or Administrator issued pursuant to RCSA §22a-174-20(a).
- vi. The Permittee shall maintain and keep copies of all records (including the inspections conducted) for at least five years, unless specified otherwise. [40 CFR §63.428(d)]
- vii. The Permittee shall keep records of the design of each tank showing that it is designed and constructed with its fill discharge located within 18 inches from the bottom of the tank. [RCSA §22a-174-33(j)(1)(K)(ii)]
- viii. The Permittee shall maintain records of fuel shipments to each tank, and upon the completion of each shipment, make a record of the total quantity of all fuel shipped to the tank during the past 30 days. On a monthly basis, document the total gallons of fuel delivered to the tank over the past month and over the past twelve months. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall notify the commissioner/Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR §§

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60.113b(a)(1) and (4) to afford the commissioner/Administrator the opportunity to have an observer present. [40 CFR §63.425(d)]

- ii. If the inspection required by 40 CFR §60.113b(a)(4) is not planned and the Permittee could not have known about the inspection 30 days in advance or refilling the tank, the Permittee shall notify the commissioner/Administrator at least seven days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that the Administrator receives it at least seven days prior to the refilling. [40 CFR §63.425(d)]
- iii. If any of the following defects; the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, are observed by the Permittee during the annual visual inspection of the internal floating roof and the installed closure device, a report shall be furnished by the Permittee to the commissioner/Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of the repair and the date the repair was made. [40 CFR §63.428(d)]
- iv. The Permittee shall notify the commissioner in writing of any planned changes to a storage vessel not less than 30 days before the changes are performed. [RCSA §22a-174-33(j)(1)(K)(ii)]
- v. The Permittee shall notify the commissioner prior to the end of the 45 day period if it is anticipated that a repair or replacement being made in accordance with RCSA §22a-174-20(a)(4) cannot be completed or the tank cannot be emptied within such 45 day period. [RCSA §22a-174-20(a)(4)]
- vi. The Permittee shall notify the commissioner within 72 hours of completing the degassing and repair in accordance with RCSA §22a-174-20(a)(9)(B) when a tank is emptied and degassed for the purpose of performing a repair that is necessary for the safe and proper function of the tank. [RCSA §22a-174-20(a)(9)(B)]

D. EMISSIONS UNIT 52 (EU-52): EMERGENCY GENERATOR 1

Subject to: RCSA §22a-174-3b

Note: This unit is not subject to 40 CFR Part 63 Subpart ZZZZ pursuant to 40 CFR §63.6585(f)(2) whereby excluding existing emergency engines at residential, commercial, and institutional area sources of HAP.

1. Maximum Operating Hours

a. *Limitation or Restriction*

Maximum operating hours for the engine shall not be greater than 300 hours during any 12 month rolling aggregate and the engine shall be operated only during periods of testing and scheduled maintenance or during an emergency as defined in RCSA §22a-174-22e. [RCSA §22a-174-3b(e)(2)(C)]

b. *Monitoring Requirements*

The Permittee shall monitor hours of operation on a monthly basis. [RCSA §22a-174-3b(e)(4)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

The Permittee shall maintain records of hours of operation for the engine on a monthly basis and a 12 month rolling aggregate. Maximum annual operating hours shall be based on any consecutive 12 month time period and shall be determined by adding each month's operating hours to that of the previous 11 months. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

The Permittee shall provide records, or copies thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [RCSA §22a-174-3b(i)]

2. Maximum Fuel Sulfur Content

a. Limitation or Restriction

The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by EU-52. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring Requirements

The Permittee shall monitor the sulfur content for the fuel burned in EU-52. [RCSA §22a-174-3b(e)(3)]

c. Record Keeping Requirements

The Permittee shall keep any of the following records to demonstrate compliance with Section III.D.2.a of this Title V permit:

- i. A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
- ii. A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
- iii. A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

d. Reporting Requirements

The Permittee shall provide records, or copies thereof, to the commissioner upon request and shall make such records available to the commissioner to inspect at the location maintained. [RCSA §22a-174-3b(i)]

E. 112(r) ACCIDENTAL RELEASE REQUIREMENTS

Should this stationary source, as defined in 40 CFR §68.3, become subject to the accidental release prevention regulations in 40 CFR Part 68, the Permittee shall submit a risk management plan to the Administrator by the date specified in 40 CFR §68.10.

Section III: Applicable Requirements and Compliance Demonstration

F. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(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.
14. **Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B).
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §§22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
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. **Seasonal Gasoline Vapor Pressure:** Between May 1 and September 15 of every year, the Permittee shall

Section III: Applicable Requirements and Compliance Demonstration

not offer for sale, sell or deliver to any dispensing facility in Connecticut, gasoline with a Reid Vapor Pressure in excess of 9.0 psi as set forth in RCSA §22a-174-20(a)(11).

- 18. Operation and Maintenance:** The Permittee shall have a prepared Operation and Maintenance (O&M) plan for any equipment used to load or unload gasoline, implement a training program for all persons who receive or deliver gasoline to or from the facility, maintain a copy of the O&M plan and training program materials at the facility, and maintain monthly records set forth in RCSA §22a-174-20(b)(16).
- 19. Gasoline Equipment Leaks:** The Permittee shall, as set forth in 40 CFR §63.424:
 - a. perform a monthly leak inspection of all equipment in gasoline service. Detection methods incorporating sight, sound, and smell are acceptable. Each piece of equipment shall be inspected during the loading of a gasoline cargo tank.
 - b. use a log book signed by the owner or operator at the completion of each inspection. A section of the log shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility.
 - c. record each detection of a liquid or vapor leak in the log book. The Permittee shall initiate repair of each equipment leak as soon as practicable, but not later than five calendar days after the leak is detected. The Permittee shall complete repair of each leak within 15 days of detection, except as provided in Section III.F.19.d of this Title V permit.
 - d. provide the reason(s) a delay is needed and the date by which each repair is expected to be completed upon a demonstration to the Administrator that repair within 15 days is not feasible.
 - e. achieve initial compliance with the requirements in Section III.F.19.a through d of this Title V permit as expeditiously as practicable, but no later than December 15, 1997, for existing sources. For new sources, initial compliance shall be achieved upon startup.
 - f. as an alternative to compliance with the requirements in Section III.F.19.a through d of this Title V permit, implement an instrument leak monitoring program that has been demonstrated to the Administrator as at least equivalent.
 - g. not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time.
- 20. Pumps and Compressors:** All pumps and compressors handling materials with a vapor pressure of 1.5 psi or greater shall have mechanical seals or other equipment of equal efficiency for the purposes of controlling emissions as set forth in RCSA §22a-174-20(d).
- 21. Waste Gas Disposal:** The Permittee shall not cause or permit the emission of organic gases from a vapor blowdown system or emergency relief unless these gases are burned by smokeless flare or an equally effective control device approved by the commissioner as set forth in RCSA §22a-174-20(e).
- 22. Waste VOC Evaporation:** The Permittee shall not, during any one day, dispose of more than 1.5 gallons (5.7 liters) of VOC by means which allows the VOC to evaporate into the atmosphere as set forth in RCSA §22a-174-20(j).
- 23. Operation and Maintenance Requirements:** The Permittee shall implement a written startup, shutdown and malfunction plan satisfying the requirements of 40 CFR §63.10 as set forth in 40 CFR Part 63 Subpart

Section III: Applicable Requirements and Compliance Demonstration

A.

24. **Additional Reporting Requirements:** In addition to those reports not otherwise expressly required by this Title V permit, the Permittee shall make reports as may be required by 40 CFR §63.10 as set forth in 40 CFR Part 63 Subpart A.
25. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e and §22a-174-22f.
26. **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).
27. **Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
28. **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.
29. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

Section IV: COMPLIANCE SCHEDULE

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 (Mailcode: 04-2), 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.

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

Section VI: Title V Requirements

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.

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

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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.

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.

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N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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).

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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.

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.