



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	117-0262-TV
Client/Sequence/Town/Premises Numbers	1392/02/117/519
Revision Issue Date	April 3, 2018
Expiration Date	February 23, 2021

Corporation:

Magellan Terminals Holdings, L.P.

Premises Location:

Waterfront Terminal, 280 Waterfront Street, New Haven, Connecticut 06512

Name of Responsible Official and Title:

Austin McClain, Director of Operations

All the following attached pages, 2 through 49, are hereby incorporated by reference into this Title V permit.

/s/Robert E. Kaliszewski
Robert E. Kaliszewski
Deputy Commissioner

4/3/2018
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>
AST	Aboveground Storage Tanks
ASTM	American Society of Testing and Materials
bbbl	Barrel
CDX	Central Data Exchange
CEDRI	Compliance and Emissions Data Reporting Interface
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CI	Compression Ignition
CMS	Continuous Monitoring System
CO	Carbon Monoxide
EOP	Emergency Preparedness and Operations
EPA	Environmental Protection Agency
EU	Emissions Unit
°F	Degree Fahrenheit
FR	Federal Register
g	gram
gal	Gallons
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
hp	Horse power
hr	Hour
ICE	Internal Combustion Engine
ISO	International Organization for Standardization
KW	Kilowatt
L	Liter
MACT	Maximum Achievable Control Technology
mg	Milligram
mm	Millimeter
MMBtu	Million British Thermal Units
MMgal	Million Gallons
MTBE	Methyl Tertbutyl Ether
NERC	North American Electric Reliability Corporation
NMHC	Non Methane Hydro Carbon
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
O&M	Operation and Maintenance
PM	Particulate Matter
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

Abbreviation/Acronym

Description

TOC	Total Organic Compounds
ULSD	Ultra Low Sulfur Diesel
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid
VRU	Vapor Recovery Units
yr	Year

DEFINITIONS

Bulk gasoline terminal means any gasoline facility that receives gasoline by pipeline, ship or barge, and has a gasoline throughput greater than 75,700 liters per day. [40 CFR §63.421]

Gasoline means any petroleum distillate or petroleum distillate/alcohol blend having a Reid Vapor Pressure (RVP) of 27.6 kilopascals (4.0 psi) or greater which is used as a fuel for internal combustion engines. [40 CFR §60.501]

Gasoline cargo tank means a delivery tank truck or railcar which is loading gasoline or which has loaded gasoline on the immediately previous load. [40 CFR §63.421]

Gasoline throughput shall be the maximum calculated design throughput as may be limited by compliance with an enforceable condition under Federal, State or local law and discoverable by the Administrator and any other person.

Loading rack means the loading arms, pumps, meters, shutoff valves, relief valves, and other piping and valves necessary to fill gasoline cargo tanks. [40 CFR §60.501]

Maximum true vapor pressure means the equilibrium partial pressure exerted by the Volatile Organic Compounds (VOC) in the stored VOL at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature, as determined: [40 CFR §60.111b]

1. In accordance with methods described in American Petroleum Institute Bulletin 2517, Evaporation Loss from External Floating Roof Tanks; or
2. As obtained from standard reference texts; or
3. As determined by ASTM Method D2879-83, 96, 97, Method D5191-07; or
4. Any other method approved by the Administrator.

Reid Vapor Pressure (RVP) means the vapor pressure of a liquid in pounds per square inch absolute (psia) at 100 degrees Fahrenheit as determined by American Society for Testing and Materials Method D5191-07 "Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)". [RCSA §22a-174-20(a)(1)(K)]

Storage vessel means each tank, reservoir, or container used for the storage of volatile organic liquids but does not include: [40 CFR §60.111b]

1. Frames, housing, auxiliary supports, or other components that are not directly involved in the containment of liquids or vapors; or
2. Subsurface caverns or porous rock reservoirs.

Vapor Recovery Unit (VRU) means a device or system of devices with attendant valves, fittings, piping, and other appurtenances incorporating a means for the incineration of vapors or the liquefaction of vapors by absorption, adsorption, condensation or other means. The complete system as a whole and not just the individual components shall have been tested and approved by a nationally recognized testing laboratory.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Special Warehousing and Storage, Not Else Classified

Primary SIC: 4226

Facility Mailing Address: Magellan Terminals Holdings, L.P.
P.O. Box 22186, MD OTC-8
Tulsa, OK 74121-2186

Telephone Number: (918) 574-7916

B. PREMISES DESCRIPTION

Magellan Terminals Holdings, L.P. (Magellan) has a Waterfront Street bulk petroleum terminal located on the Eastern Shore of New Haven Harbor, Long Island Sound. The terminal is bordered to the north by a marine terminal operated by the Getty Terminals Corporation. A second marine terminal facility operated by the Gateway Terminal is located south of the terminal. Waterfront Street forms the eastern boundary of the property.

Waterfront Terminal is a bulk petroleum terminal with principal operations consisting of the receipt, storage and distribution of gasoline and distillate products. Products handled at the facility are typically received by marine vessel at the terminal's vessel dock or by pipeline. Upon receipt, products are transferred via product piping to bulk aboveground storage tanks (AST) located in the terminal's tank farm. Final distribution of product is conducted at the terminal's truck loading rack or at the vessel dock. The tanks are subject to 40 CFR Part 60 Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels). The terminal is subject to 40 CFR Part 63 Subpart R, National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) which incorporates some requirements of 40 CFR Part 60 Subpart Kb.

Magellan is capable of transferring products to other terminals through product pipeline for storage. They are capable to distribute product to interstate and intrastate locations via the Buckeye pipeline (jetline) and receive product via this pipeline. They rarely distribute products through the Buckeye pipeline and the inter-terminal pipeline.

Magellan is capable of operating a marine vessel dock for loading bulk petroleum products (including gasoline) into the marine vessel. Currently, Magellan is loading only distillate into the marine vessels. When and if Magellan decides to start marine vessel loading for gasoline, control equipment shall be installed in accordance with the State (i.e. RCSA §22a-174-20(b)) and Federal regulations (i.e. 40 CFR Part 63 Subpart Y).

The terminal consists of two truck loading racks. The rack located closest to the building is the gasoline loading rack (Registration No. 117-0815), it is dedicated to bottom loading and contains six bays. Three bays load distillate, two bays load gasoline and one bay can load gasoline or ethanol. The gasoline loading rack is subject to 40 CFR Part 60 Subpart XX, Standards of Performance for Bulk Gasoline Terminals. The other loading rack, the distillate loading rack (Registration No. 117-0816) is dedicated to top loading and contains three bays which load distillate. There are two functional Vapor Recovery Units (VRU) that control the Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAP) emissions from the gasoline truck loading rack. The primary VRU was online in 1997 and the secondary

Section I: Premises Information/Description

VRU was online in 1998. There are no controls for the distillate loading bays.

The Fire Pump Engine is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63 Subpart ZZZZ) and complies with the requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60 Subpart III) pursuant to 40 CFR §63.6590(c).

The Weil-McLain boiler is subject to the Maximum Achievable Control Technology (MACT) standard for Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR Part 63 Subpart DDDDD. The boiler is not subject to emission standards because it has a rated capacity of less than 10 MMBtu/hr.

Magellan is a Title V source because potential VOC and aggregate HAP emissions exceed the major source thresholds. Magellan is located in a serious ozone non-attainment area defined in RCSA §22a-174-1(103).

Magellan is subject to the following:

40 CFR Part 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels
40 CFR Part 60 Subpart XX	Standards of Performance for Bulk Gasoline Terminals
40 CFR Part 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
40 CFR Part 63 Subpart R	National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)
40 CFR Part 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters

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 Registrations or Regulations into this Title V permit.

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Registration or Regulation Number
EU-1	Tank 201: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less (AST) Installation Year: 6/1/1936 Maximum Rated Capacity: 2,171,400 gal	Internal floating roof with vapor mounted primary and secondary seals	Registration No. 117-1005 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-2	Tank 202: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less (AST) Installation Year: 6/1/1936 Maximum Rated Capacity: 1,572,900 gal	Internal floating roof with mechanical shoe primary seal	Registration No. 117-0810 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-3	Tank 206: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less (AST) Installation Year: 6/1/1929 Maximum Rated Capacity: 676,200 gal	Internal floating roof with vapor mounted primary and secondary seals	Registration No. 117-0979 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-4	Tank 209: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less (AST) Installation Year: 6/1/1929 Maximum Rated Capacity: 411,600 gal	Internal floating roof with vapor mounted primary and secondary seals	Registration No. 117-0812 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			
Emissions Unit	Emissions Unit Description	Control Unit Description	Registration or Regulation Number
EU-5	Tank 210: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less (AST) Installation Year: 6/1/1936 Maximum Rated Capacity: 394,800 gal	Internal floating roof with vapor mounted or mechanical shoe primary seal and vapor mounted secondary seal	Registration No. 117-0814 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-6	Tank 212: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less and Blending of: Butane and W Grade Gasoline (AST) Installation Year: 6/1/1951 Maximum Rated Capacity: 4,019,400 gal	Internal floating roof with vapor mounted or mechanical shoe primary seal and vapor mounted secondary seal	Registration No. 117-0813 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-7	Tank 214: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less and Blending of: Butane and W Grade Gasoline (AST) Installation Year: 6/1/1951 Maximum Rated Capacity: 3,889,200 gal	Internal floating roof with vapor mounted primary and secondary seals	Registration No. 117-1006 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R
EU-8	Tank 215: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less and Blending of: Butane and W Grade Gasoline (AST) Installation Year: 6/1/1953 Maximum Rated Capacity: 3,998,400 gal	Internal floating roof with vapor mounted primary and secondary seals	Registration No. 117-0811 RCSA §22a-174-20(a) 40 CFR Part 60 Subpart Kb 40 CFR Part 63 Subpart R

Section II: Emissions Units Information

TABLE IIA: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Registration or Regulation Number
EU-9	<p>Tank 218: Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol, Distillate and less volatile products with an annual average RVP of 13 or less and Blending of: Butane and W Grade Gasoline (AST)</p> <p>Installation Year: 3/3/2008</p> <p>Maximum Rated Capacity: 5,565,756 gal</p>	<p>Internal floating roof with vapor mounted or mechanical shoe primary seal and vapor mounted secondary seal</p>	<p>RCSA §22a-174-20(a)</p> <p>40 CFR Part 60 Subpart Kb</p> <p>40 CFR Part 63 Subpart R</p>
EU-10	<p>Distillate, Gasoline and Ethanol Loading Rack (VRU)</p> <p>Installation Year: 1942</p> <p>Maximum Rated Throughput: 905.661 MMgal/yr</p>	<p>John Zink VRU (Primary) (Carbon Adsorption/Absorption) Model No. AAT 1650 Installation Year: 1997 Maximum Rated Capacity: 2,350,000 gal/day</p> <p>John Zink VRU (Secondary) (Carbon Adsorption/Absorption) Model No. AAT 825 Installation Year: 1998 Maximum Rated Capacity: 1,000,000 gal/day</p>	<p>Registration No. 117-0815</p> <p>RCSA §22a-174-20(b)</p> <p>RCSA §22a-174-28</p> <p>40 CFR Part 60 Subpart XX</p> <p>40 CFR Part 63 Subpart R</p>

Section II: Emissions Units Information

TABLE IIA: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Registration or Regulation Number
EU-12	Distillate Loading Rack Installation Year: 1942 Maximum Rated Capacity: 521,000,000 gal/yr	None	Registration No. 117-0815 RCSA §22a-174-20(b) RCSA §22a-174-28 40 CFR Part 60 Subpart XX 40 CFR Part 63 Subpart R
EU-38	Boiler No.1 Make: Weil McLain Installation Year: 2008 Maximum Rated Capacity: 1.7 MMBtu/hr	None	40 CFR Part 63 Subpart DDDDD
EU-40	Fire Pump Engine Make: Perkins 400 Series Installation Year: 2013 Maximum Rated Capacity: 28.2 hp	None	40 CFR Part 60 Subpart IIII

Section II: Emissions Units Information

B. GROUPED EMISSIONS UNITS DESCRIPTION

Grouped emissions units are set forth in Table II.B.

TABLE II.B: GROUPED EMISSIONS UNITS DESCRIPTION		
Grouped Emissions Unit	Emissions Unit	Description
GEU-1	EU-1 through EU-9	Storage and Blending AST
GEU-2	EU-10 and EU-12	Loading Racks

C. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.C: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
GEU-1	Storage of: Gasoline finished and blend stocks (annual average RVP 13), W Grade Gasoline, Ethanol and Distillate and less volatile products with an annual average RVP of 13 or less (AST) For Tank Nos. 212 (EU-6), 214 (EU-7), 215 (EU-8) and 218 (EU-9): Blending of: Butane and W Grade Gasoline
GEU-2	Loading Racks
EU-38	Operates on No. 2 Fuel Oil with less than 0.5 % sulfur on a dry weight basis
EU-40	Operates on ULSD with less than 0.0015% sulfur on a dry weight basis

Section III: Applicable Requirements and Compliance Demonstration

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

A. GEU-1: EU-1 through EU-9 (Storage and Blending AST)

Registration or Regulation Number: Registration Nos. 117-1005, 117-0810, 117-0979, 117-0812, 117-0814, 117-0813, 117-1006, 117-0811, RCSA §22a-174-20(a) and 40 CFR Part 63 Subpart R

1. VOC

a. Limitation or Restriction

- i. The Permittee shall equip each storage vessel with a fixed roof in combination with an internal floating roof meeting the following specifications:
[40 CFR §63.423(a), 40 CFR §60.112b(a)(1) and RCSA §22a-174-20(a)(2)(B)]
 - (A) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. [40 CFR §60.112b(a)(1)(i)]
 - (B) Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
[40 CFR §60.112b(a)(1)(ii)(B and C)]
 - (1) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both shall be continuous.
 - (2) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
 - (C) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
[40 CFR §60.112b(a)(1)(iii)]
- ii. The Permittee shall operate and maintain such a tank to ensure that: [RCSA §22a-174-20(a)(2)(B)]
 - (A) 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)]
 - (B) All openings except stub drains are equipped with covers, lids or seals such that:
[RCSA §§22a-174-20(a)(2)(B)(ii)(I-III)]
 - (1) The cover, lid or seal is in the closed position at all times except when in actual use;

Section III: Applicable Requirements and Compliance Demonstration

- (2) 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
 - (3) Rim vents, if provided, are set to open to the manufacturer's recommended setting when the roof is floated off the roof leg supports or cables.
- (C) All tank gauging and sampling devices are vapor-tight except when tank gauging or sampling is taking place; and [RCSA §22a-174-20(a)(2)(B)(iii)]
- (D) No liquid accumulates on the top of the floating roof. [RCSA §22a-174-20(a)(2)(B)(iv)]
- iii. The external surfaces of any storage tank containing VOCs with a vapor pressure of 0.75 psi or greater under standard conditions that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun shall be either mill finished aluminum or painted and maintained white upon the next painting of the tank, or upon being returned to service after being out of service for the first time after March 7, 2014, whichever is sooner, and no less than 10 years after March 7, 2014, except the requirement to use mill-finished aluminum or white paint shall not apply to words and logograms applied to the external surface of the storage tank 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 (18.6 square meters), whichever is less. [RCSA §22a-174-20(a)(7)]
- iv. When performing a roof landing of a floating roof tank, the Permittee shall: [RCSA §§22a-174-20(a)(8)(A) and (B)]
- (A) When the roof is resting on its leg supports or suspended by cables or hangers, empty and refill the tank as a continuous process; and
 - (B) After the tank is degassed for the first time after March 7, 2014, any in-service roof landing shall be with the landed height of the floating roof at its minimum setting.
- v. The Permittee shall perform degassing and cleaning as follows: [RCSA §§22a-174-20(a)(9)(A-C)]
- (A) After June 1, 2014, the Permittee shall not perform degassing of any aboveground storage tank subject to RCSA §22a-174-20(a)(2) during the period from June 1 through August 31 of any calendar year, except for the purpose of performing a repair that is necessary for safe and proper function of the tank.
 - (B) The Permittee shall clean an aboveground storage tank subject to RCSA 22a-174-20(a)(2) using one or more of the following methods: [RCSA §§22a-174-20(a)(9)(C)(i) and (ii)]
 - (1) Diesel fuel;
 - (2) A solvent with an initial boiling point of greater than 302 °F;
 - (3) A solvent with a vapor pressure less than 0.5 psi;
 - (4) A solvent with 50 grams per liter VOC content or less; or

Section III: Applicable Requirements and Compliance Demonstration

- (5) Another cleaning agent approved by the commissioner and the Administrator; or
 - (6) Steam cleaning.
- vi. The Permittee shall not offer for sale, sell or deliver to any dispensing facility in Connecticut, gasoline with a Reid Vapor Pressure (RVP) in excess of 9.0 psi between May 1 and September 15. [RCSA §22a-174-20(a)(11)]

b. Monitoring Requirements

- i. The Permittee shall comply with the following requirements of 40 CFR §60.113b: [40 CFR §63.425(d)]
 - (A) 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 Volatile Organic Liquid (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 Permittee shall repair the items before filling the storage vessel. [40 CFR §60.113b(a)(1)]
 - (B) For vessels equipped with a double seal system, complete one of the following:
 - (1) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, the Permittee shall visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If 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, the Permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in 40 CFR §60.115b(a)(3). Such a request for an extension shall document that alternate storage capacity is unavailable and specify a schedule of actions the Permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible; or [40 CFR §60.113b(a)(2) and 40 CFR §60.113b(a)(3)(ii)]
 - (2) 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 the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than five years. [40 CFR §§60.113b(a)(3)(i) and (a)(4)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR §63.427(c) and 40 CFR §60.116b(e)(1)]
- iii. The Permittee shall conduct inspections as follows: [RCSA §§22a-174-20(a)(3)(A-C)]
 - (A) Once per month visually inspect 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); and
 - (B) Whenever the tank is emptied and degassed, but no less than once every 10 years, conduct an inspection from within the tank or performed entirely from the top side of the floating roof as long as there is visual access to all deck components by:
 - (1) Visually inspecting the floating roof deck, deck fittings and rim seal system to determine compliance 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
 - (2) 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.
- iv. 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-C)]
 - (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 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.
- v. Samples to be analyzed for RVP shall be collected and handled according to the applicable procedures in American Society for Testing and Materials method D 5842-95(2000), "Standard Practice for Sampling and Handling of Fuels for Volatility Measurement." [RCSA §22a-174-20(a)(13)]
- vi. The Permittee shall determine RVP by using American Society for Testing and Materials method D5191-07 (2007), except that the following correlation equation shall be used: [RCSA §22a-174-20(a)(14)]

$$\text{RVP psi} = (0.956 * X) - 0.347$$

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- vii. The Permittee shall calculate the annual VOC emissions for each storage vessel by using TankESP or equivalent. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The Permittee shall keep these records for the life of the source. [40 CFR §63.427(c) and 40 CFR §§60.116b(a) and (b)]
- ii. The Permittee shall make and keep a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. [40 CFR §60.116b(c)]
- iii. The Permittee shall make and keep records of each inspection performed as required by 40 CFR §§60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). [40 CFR §63.428(d) and 40 CFR §60.115b(a)(2)]
- iv. The Permittee shall make and keep records of the following information: [RCSA §§22a-174-20(a)(10)(B)(i)(I-III) and -20(a)(10)(B) (iv-viii)]
 - (A) Type of VOC stored, vapor pressure and monthly throughput;
 - (B) A Material Safety Data Sheet or Environmental Data Sheet for each VOC stored; and
 - (C) Records of the inspections conducted under RCSA §22a-174-20(a)(3) including, but not limited to, date of the inspection, results and corrective actions taken, if applicable;
 - (D) Documentation of any leak detected pursuant to RCSA §22a-174-20(a)(4), 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 landing and landing emissions calculated using AP-42 Chapter 7 methodology;
 - (F) Dates of all tank degassing activities performed pursuant to RCSA §22a-174-20(a)(9)(A) or (B);
 - (G) Date, cleaning method and cleaning agents used for any cleaning performed pursuant to RCSA §22a-174-20(a)(9)(C); and
 - (H) Any approval by the commissioner or Administrator issued pursuant to RCSA §22a-174-20(a).
- v. The Permittee shall make and keep records of the analysis of gasoline samples to determine compliance with the provisions of RCSA §22a-174-20(a)(11). [RCSA §22a-174-20(a)(12)]

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- vi. The Permittee shall make and keep records of annual VOC emissions for each storage vessel.
[RCSA §22a-174-33(j)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall notify the commissioner and 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 (a)(4) to afford the commissioner and Administrator the opportunity to have an observer present. 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 and 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) and 40 CFR §60.113b(a)(5)]
- ii. The Permittee shall furnish the commissioner and Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR §60.112b(a)(1) and 40 CFR §60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR §60.7(a)(3). [40 CFR §63.428(d) and 40 CFR §60.115b(a)(1)]
- iii. If any of the conditions described in 40 CFR §60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR §60.113b(a)(2), a report shall be furnished to the commissioner and 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 and date the repair was made. [40 CFR §63.428(d) and 40 CFR §60.115b(a)(3)]
- iv. After each inspection required by 40 CFR §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed, a report shall be furnished to the commissioner and Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the control equipment specifications of 40 CFR §60.112b(a)(1) or 40 CFR §60.113b(a)(3) and list each repair made.
[40 CFR §63.428(d) and 40 CFR §60.115b(a)(4)]
- v. The Permittee shall notify the commissioner when a tank is emptied and degassed under RCSA §22a-174-20(a)(9)(B) within 72 hours of completing the degassing and repair. Such notification shall be submitted to the Compliance Assistance and Coordination Unit of the Bureau of Air Management and shall include the following information:
[RCSA §§22a-174-20(a)(9)(B)(i-vi)]
 - (A) Identification of the facility and the tank degassed;
 - (B) Identification of the VOC stored;
 - (C) An explanation of the need to degas the tank during the period from June 1 through August 31;

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- (D) The date the Permittee determined that degassing and repair would be necessary;
- (E) The dates that degassing commenced and was completed; and
- (F) The date that inspection, repair and refilling was or is anticipated to be completed.

B. GEU-2: EU-10 and EU-12 (Loading Racks)

Registration or Regulation Number: Registration No. 117-0815, RCSA §22a-174-20(b), RCSA §22a-174-28, 40 CFR Part 60 Subpart XX and 40 CFR Part 63 Subpart R

1. Total Organic Compounds (TOC) and VOC

a. Limitation or Restriction

- i. The Permittee shall properly install a vapor collection and vapor recovery system or its equivalent, maintain it in good working order and operation, and:
[40 CFR §63.422(b) and RCSA §§22a-174-20(b)(2)(A) and (B)]
 - (A) The vapors discharged from the delivery vehicle during loading are processed by a vapor recovery system; and
 - (B) The amount of VOCs released to the ambient air is less than 10 milligrams per liter of liquid loaded over a six hour period. To determine compliance with this requirement the reference methods and test procedures found in 40 CFR §60.503(a) and 40 CFR §60.503(c), respectively, shall be used.
- ii. The Permittee shall comply with the following requirements:
[40 CFR §§63.422(a) and (c) and 40 CFR §§60.502 (a), (d), (e)(1) and (2)]
 - (A) Each loading rack shall be equipped with a vapor collection system designed to collect the TOC vapors displaced from cargo tank during product loading. [40 CFR §60.502(a)]
 - (B) Each vapor collection system shall be designed to prevent any TOC vapors collected at one loading rack from passing to another loading rack. [40 CFR §60.502(d)]
 - (C) Loading of liquid product into gasoline cargo tanks shall be limited to vapor-tight gasoline cargo tanks using the following procedures: [40 CFR §63.422(c) and 40 CFR §60.502(e)]
 - (1) The Permittee shall obtain the vapor tightness documentation as described in 40 CFR §60.505(b) for each gasoline cargo tank which is to be loaded at the loading rack. [40 CFR §60.502(e)(1)]
 - (2) The Permittee shall require the cargo tank's identification number to be recorded as each gasoline cargo tank is loaded at the loading rack. [40 CFR §60.502(e)(2)]
- iii. The Permittee shall act to assure that loadings of gasoline cargo tanks at the loading racks are made only into cargo tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system. [40 CFR §63.422(a) and 40 CFR §60.502(f)]

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- iv. The Permittee shall act to assure that the terminal's and the cargo tank's vapor collection systems are connected during each loading of a gasoline cargo tank at the loading rack. 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 §63.422(a) and 40 CFR §60.502(g)]
- v. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery cargo 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 §63.422(a) and 40 CFR §60.502(h)]
- vi. 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)]
 - (A) The cargo tank truck meets the test requirements in 40 CFR §63.425(e); [40 CFR §63.422(c)(2)(i)]
 - (B) For each gasoline cargo tank failing the test in 40 CFR §63.425 (f) or (g) at the facility, the cargo tank either: [40 CFR §63.422(c)(2)(ii)]
 - (1) Before repair work is performed on the cargo tank, meets the test requirements in 40 CFR §63.425(g) or (h), or [40 CFR §63.422(c)(2)(ii)(A)]
 - (2) 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). [40 CFR §63.422(c)(2)(ii)(B)]
- vii. No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4,500 pascals (450 mm of water). [40 CFR §63.422(a) and 40 CFR §60.502(i)]
- viii. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to the following: [40 CFR §63.424(g)]
 - (A) Minimize gasoline spills;
 - (B) Clean up spills as expeditiously as practicable;
 - (C) Cover all open gasoline containers with a gasket seal when not in use; and
 - (D) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- ix. The gasoline loading racks shall be equipped with loading arms that have a vapor collection adaptor, 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 compounds drainage from the loading device when it is removed from the hatch of any delivery vehicle, or to accomplish complete drainage

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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)]

- x. The Permittee shall develop a written operation and maintenance (O&M) plan for any equipment used to load or unload gasoline. [RCSA §22a-174-20(b)(16)(A)]
- xi. The Permittee shall develop a formal training program implementing the O&M plan for any person who receives gasoline from a loading facility. [RCSA §22a-174-20(b)(16)(B)]
- xii. 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 Requirements

- i. The Permittee shall cross-check each cargo tank's identification number, with the file of cargo tank vapor tightness documentation within two weeks after the corresponding cargo tank is loaded, unless either of the following conditions is maintained:
[40 CFR §63.422(a) and 40 CFR §§60.502(e)(3)(i) and (ii)]
 - (A) If less than an average of one gasoline cargo tank per month over the last 26 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed each quarter; or [40 CFR §60.502(e)(3)(i)(A)]
 - (B) If less than an average of one gasoline tank truck per month over the last 52 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed semiannually. [40 CFR §60.502(e)(3)(i)(B)]
 - (C) If either the quarterly or semiannual cross-check reveals that these conditions were not maintained, the Permittee shall return to biweekly monitoring until such time as these conditions are again met. [40 CFR §60.502(e)(3)(ii)]
- ii. The Permittee shall perform a monthly leak inspection of all equipment in gasoline service. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. Each piece of equipment shall be inspected during the loading of a gasoline cargo tank.
[40 CFR §63.424(a) and RCSA §22a-174-20(b)(17)]
- iii. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than five calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak, except as provided below:
[40 CFR §63.424(c)]
 - (A) Delay of repair of leaking equipment will be allowed upon a written demonstration, to the commissioner and Administrator's satisfaction that repair within 15 days is not feasible. The Permittee shall provide the reason(s) a delay is needed and the date by which each repair is expected to be completed. [40 CFR §63.424(d) and RCSA §22a-174-20(b)(17)]

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- iv. The Permittee shall conduct a performance test on the vapor processing and collection systems 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)(1)(i)]
- v. For each performance test conducted, 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, continuously record the operating parameter under 40 CFR §63.427(a) (i.e. organic compound concentration in the exhaust air stream);
[40 CFR §63.425(b)(1)]
 - (B) 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 [40 CFR §63.425(b)(2)]
 - (C) Provide for the Administrator's approval 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) (i.e. 10 mg VOC/L). [40 CFR §63.425(b)(3)]
- vi. For each performance tests performed 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)]
- vii. The Permittee shall install, calibrate, certify, operate and maintain, according to the manufacturer's specifications, a continuous monitoring system (CMS). Where a carbon adsorption system/VRU is used, a continuous emission monitoring system (CEMS) capable of measuring organic compound concentration shall be installed in the exhaust air stream.
[40 CFR §63.427(a)(1)]
- viii. The Permittee shall conduct emissions testing of each VRU, to determine its VOC emissions, once every five years from the date of the previous test. Such test shall be conducted in accordance with an Intent-to-Test protocol submitted by the Permittee and approved by the commissioner.
[RCSA §22a-174-5(e)(2)]
- ix. When determining the oxygen content by weight of gasoline, the Permittee shall:
 - (A) Use the values listed in RCSA §22a-174-28, Table 28-1 and the procedures listed in RCSA §22a-174-28(c)(2) through (c)(4). All volume measures shall be adjusted to 60 °F.
[RCSA §22a-174-28(c)(1)]
 - (B) Obtain a representative sample in accordance with EPA's sampling procedures as detailed in 40 CFR Part 80, Appendix D. [RCSA §22a-174-28(c)(2)]
 - (C) Determine the mass concentration of each oxygenate in the sample by one of the following test methods: [RCSA §§22a-174-28(c)(3)(A) and (B)]

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- (1) ASTM Method 4815-89 (ASTM standard test method for determination of C1 to C4 alcohols and MTBE in gasoline by gas chromatography); or
 - (2) 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
- (D) 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 sign a log book 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. Each detection of a liquid or vapor leak shall be recorded in the log book. [40 CFR §§63.424(b) and (c)]
- ii. The Permittee shall make and keep records of the test results for each gasoline cargo tank loading at the facility as follows: [40 CFR §63.428(b)]
 - (A) Annual certification testing performed under 40 CFR §63.425(e); and [40 CFR §63.428(b)(1)]
 - (B) Continuous performance testing performed at any time at the facility under 40 CFR §§63.425(f), (g), and (h). [40 CFR §63.428(b)(2)]
 - (C) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: [40 CFR §63.428(b)(3) and 40 CFR §60.505(b)]
 - (1) Name of test: Annual Certification Test—Method 27 (40 CFR §63.425(e)(1)); Annual Certification Test—Internal Vapor Valve (40 CFR §63.425(e)(2)); Leak Detection Test (40 CFR §63.425(f)); Nitrogen Pressure Decay Field Test (40 CFR §63.425(g)); or Continuous Performance Pressure Decay Test (40 CFR §63.425(h)); [40 CFR §63.428(b)(3)(i) and 40 CFR §60.505(b)(1)]
 - (2) Cargo tank owner's name and address; [40 CFR §63.428(b)(3)(ii) and 40 CFR §60.505(b)(2)]
 - (3) Cargo tank identification number; [40 CFR §63.428(b)(3)(iii) and 40 CFR §60.505(b)(3)]
 - (4) Test location and date; [40 CFR §63.428(b)(3)(iv) and 40 CFR §§60.505(b)(4) and (5)]
 - (5) Tester name and signature; [40 CFR §63.428(b)(3)(v) and 40 CFR §60.505(b)(6)]

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- (6) Witnessing inspector, if any: Name, signature, and affiliation; [40 CFR §63.428(b)(3)(vi) and 40 CFR §60.505(b)(7)]
 - (7) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing; [40 CFR §63.428(b)(3)(vii)]
 - (8) Test results: test pressure; pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument; and leak definition; and [40 CFR §63.428(b)(3)(viii)]
 - (9) Test results, updated once a year: Actual pressure change in five minutes, mm of water (average for two runs). [40 CFR §60.505(b)]
- iii. The Permittee shall make and keep an up-to-date, readily accessible record of the continuous monitoring data required under 40 CFR §63.427(a) (i.e. organic compound concentration in the exhaust air stream). This record shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred or, alternatively, shall record the operating parameter data only during such loadings. The date and time of day shall also be indicated at reasonable intervals on this record. [40 CFR §63.428(c)(1)]
 - iv. The Permittee shall record the following information in the log book for each leak that is detected: [40 CFR §§63.428(e)(1-7)]
 - (A) The equipment type and identification number;
 - (B) The nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell);
 - (C) The date the leak was detected and the date of each attempt to repair the leak;
 - (D) Repair methods applied in each attempt to repair the leak;
 - (E) "Repair delayed" and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak;
 - (F) The expected date of successful repair of the leak if the leak is not repaired within 15 days; and
 - (G) The date of successful repair of the leak.
 - v. The Permittee shall notify the owner or operator of each non-vapor-tight gasoline cargo tank loaded at the loading rack within one week of the documentation cross-check. The Permittee shall keep documentation of all notifications on file at the terminal. [40 CFR §60.502(e)(4) and 40 CFR §60.505(d)]
 - vi. The Permittee shall make and keep records of all replacements or additions of components performed on an existing vapor processing system. [40 CFR §60.505(f)]

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- vii. The Permittee shall make and keep monthly records demonstrating implementation of the O& M plan, including records of persons completing the training program at the facility.
[RCSA §22a-174-20(b)(16)(C)]
- viii. The Permittee shall make and records at such terminal containing the following information regarding oxygenated gasoline: [RCSA §§22a-174-28(d)(1)(A-F)]
 - (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.
- ix. The Permittee shall make and keep 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)]
- x. At the time of delivery the Permittee shall provide a transfer document to any retailer or wholesale purchaser-consumer located in a Control Area accepting such delivery during the Control Period for such Control Area. The transfer document may consist of an invoice, bill of lading, shipping paper or other documentation signed by the Permittee. The transfer document shall contain:
[RCSA §22a-174-28(e)(1-5)]
 - (A) The date of delivery;
 - (B) The name and address of the distributor or carrier;
 - (C) The volume of oxygenated gasoline being delivered;
 - (D) A statement that the product is oxygenated gasoline; and
 - (E) The type of oxygenate used.
- xi. The Permittee shall make and keep the following records: [RCSA §22a-174-33(j)(1)(K)(ii)]
 - (A) Quarterly performance audits performed on each VRU system;
 - (B) Annual VOC emissions based on emission factors from most recent VRU stack test results;
 - (C) All testing, calibration, and maintenance of the monitoring and recording equipment; and

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- (D) All calculations, parameters, assumptions, references, and data, including source test data, relevant to the emission factors used to determine the VOC emission rates from each VRU.
- xii. The Permittee shall make and keep the following records: [RCSA §22a-174-33(j)(1)(K)(ii)]
 - (A) Date of inspection;
 - (B) Findings from the inspection;
 - (C) Leak determination method (i.e. sight, sound, and smell);
 - (D) Corrective action taken (dates each leak repaired, reasons for any repair interval in excess of 15 days); and
 - (E) Inspector name and signature.

d. Reporting Requirements

- i. The Permittee shall report to the Administrator a description of the types, identification numbers, and locations of all equipment in gasoline service. [40 CFR §63.428(f)]
- ii. The Permittee shall include in a semiannual report to the Administrator the following information, as applicable: [40 CFR §63.428(g)]
 - (A) Each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; and [40 CFR §63.428(g)(1)]
 - (B) The number of equipment leaks not repaired within five days after detection. [40 CFR §63.428(g)(3)]
- iii. The Permittee shall submit an excess emissions report to the Administrator 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 40 CFR Part 63 Subpart R, and the following information shall be included in the excess emissions report, as applicable: [40 CFR §63.428(h)]
 - (A) 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. [40 CFR §63.428(h)(2)]
 - (B) 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). [40 CFR §63.428(h)(3)]
 - (C) 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: [40 CFR §63.428(h)(4)]
 - (1) The date on which the leak was detected; [40 CFR §63.428(h)(4)(i)]

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- (2) The date of each attempt to repair the leak; [40 CFR §63.428(h)(4)(ii)]
- (3) The reasons for the delay of repair; and [40 CFR §63.428(h)(4)(iii)]
- (4) The date of successful repair. [40 CFR §63.428(h)(4)(iv)]

C. EU-38 (Boiler No.1)

Registration or Regulation Number: 40 CFR Part 63 Subpart DDDDD

1. Tune-Up

a. Limitation or Restriction

- i. The Permittee shall comply with 40 CFR Part 63 Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR §63.6(i). [40 CFR §63.7495(b)]
- ii. The Permittee shall conduct a tune-up of the boiler or process heater every five years as specified in 40 CFR §63.7540. Each five year tune-up shall be conducted no more than 61 months after the previous tune-up.
[40 CFR §63.7500(d), 40 CFR §63.7515(d), 40 CFR §63.7540(a)(12) and 40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 1]
- iii. The Permittee shall be in compliance with the work practice standards in 40 CFR Part 63 Subpart DDDDD. These limits apply to the Permittee at all times the affected unit is operating except for the periods of startup and shutdown during which time the Permittee shall comply only with 40 CFR Part 63 Subpart DDDDD, Table 3.
[40 CFR §63.7500(f) and 40 CFR §63.7505(a)]
- iv. The Permittee shall complete an initial tune-up by following the procedures described below:
[40 CFR §63.7510(e) and 40 CFR §63.7540(a)(10)]
 - (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown but the Permittee shall inspect each burner at least once every 72 months). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
[40 CFR §63.7540(a)(10)(i) and 40 CFR §63.7540(a)(12)]
 - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available; [40 CFR §63.7540(a)(10)(ii)]
 - (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown); [40 CFR §63.7540(a)(10)(iii)]

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- (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject; and [40 CFR §63.7540(a)(10)(iv)]
 - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR §63.7540(a)(10)(v)]
- v. The Permittee shall comply with the applicable General Provisions requirements according to 40 CFR Part 63 Subpart DDDDD, Table 10. [40 CFR §63.7565 and 40 CFR Part 63 Subpart DDDDD, Table 10]

b. Record Keeping Requirements

- i. The Permittee shall maintain on-site and submit, if requested by the Administrator, a report every five years containing the following information: [40 CFR §63.7540(a)(10)(vi), 40 CFR §63.7540(a)(12) and 40 CFR §63.7550(b)]
 - (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; [40 CFR §63.7540(a)(10)(vi)(A)]
 - (B) A description of any corrective actions taken as a part of the tune-up; and [40 CFR §63.7540(a)(10)(vi)(B)]
 - (C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. [40 CFR §63.7540(a)(10)(vi)(C)]
- ii. The Permittee shall make and keep the following records: [40 CFR §63.7555(a)]
 - (A) A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.7555(a)(1)]
 - (B) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR §63.10(b)(2)(viii). [40 CFR §63.7555(a)(2)]
- iii. The Permittee shall maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. [40 CFR §63.7555(i)]
- iv. The Permittee shall maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. [40 CFR §63.7555(j)]

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- v. The Permittee's records shall be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). [40 CFR §63.7560(a)]
 - vi. The Permittee shall make and keep records sufficient to show compliance with the applicable General Provisions requirements of 40 CFR Part 63 Subpart DDDDD, Table 10. [RCSA §22a-174-33(j)(K)(ii)]
 - vii. As specified in 40 CFR §63.10(b)(1), the Permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.7560(b)]
 - viii. The Permittee shall keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). The Permittee may keep the records off site for the remaining three years. [40 CFR §63.7560(c)]
- c. *Reporting Requirements*
- i. The Permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that they conducted a tune-up of the unit. [40 CFR §63.7530(d)]
 - ii. The Permittee shall submit to the Administrator all of the applicable notifications in 40 CFR §§63.7(b) and (c), 40 CFR §§63.8(e), (f)(4) and (6), and 40 CFR §§63.9(b) through (h) by the dates specified. [40 CFR §63.7545(a)]
 - iii. The Notification of Compliance Status shall include the following certification of compliance, as applicable, and signed by a responsible official: "This facility complies with the required initial tune-up according to the procedures in 40 CFR §§63.7540(a)(10)(i) through (vi)." [40 CFR §63.7545(e)(8)(i)]
 - iv. The Permittee shall submit a compliance report every five years according to the requirements in 40 CFR §63.7550(b). The report shall contain the following:
[40 CFR §§63.7550(a), (b), (c) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item Nos. 1.a-d]
 - (A) Company and Facility name and address;
[40 CFR §63.7550(c)(1)(5)(i) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.a]
 - (B) Process unit information, emissions limitations, and operating parameter limitations;
[40 CFR §63.7550(c)(1)(5)(ii) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.a]
 - (C) Date of report and beginning and ending dates of the reporting period;
[40 CFR §63.7550(c)(1)(5)(iii) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.a]
 - (D) The total operating time during the reporting period;
[40 CFR §63.7550(c)(1)(5)(iv) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.a]
 - (E) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a five year tune-up according to 40 CFR §63.7540(a)(12). Include the date of the most

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recent burner inspection if it was not done on a five year period and was delayed until the next scheduled or unscheduled unit shutdown;

[40 CFR §63.7550(c)(1)(5)(xiv) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.a]

- (F) If there are no deviations from the applicable requirements for work practice standards in 40 CFR Part 63 Subpart DDDDD, Table 3, a statement that there were no deviations from the work practice standards during the reporting period; and
[40 CFR §63.7550(a) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.b]
- (G) If you have a deviation from a work practice standard during the reporting period, the report shall contain the information in 40 CFR §63.7550(d).
[40 CFR §63.7550(a) and 40 CFR Part 63 Subpart DDDDD, Table 9, Item No. 1.c]
- v. The first compliance report shall cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least five years, after the compliance date that is specified for the source in 40 CFR §63.7495.
[40 CFR §63.7550(b)(1)]
- vi. The first compliance report shall be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR §63.7495. The first five year compliance report shall be postmarked or submitted no later than January 31. [40 CFR §63.7550(b)(2)]
- vii. Five year compliance reports shall cover the applicable five year periods from January 1 to December 31. [40 CFR §63.7550(b)(3)]
- viii. Five year compliance reports shall be postmarked or submitted no later than January 31.
[40 CFR §63.7550(b)(4)]
- ix. The Permittee shall submit all reports required by 40 CFR Part 63 Subpart DDDDD, Table 9 electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee shall submit the report to the Administrator at the appropriate address listed in 40 CFR §63.13. At the discretion of the Administrator, the Permittee shall also submit these reports, to the Administrator in the format specified by the Administrator. [40 CFR §63.7550(h)(3)]

2. Energy Assessment

a. Limitation or Restriction

- i. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in 40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4, satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment shall include the following with extent of the evaluation for 40

Section III: Applicable Requirements and Compliance Demonstration

CFR Part 63 Subpart DDDDD, Table 3, Item Nos. 4 a. to e. appropriate for the on-site technical hours listed in 40 CFR §63.7575:

[40 CFR §63.7510(e) and 40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4]

- (A) A visual inspection of the boiler or process heater system;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.a]
- (B) An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.b]
- (C) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.c]
- (D) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.d]
- (E) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.e]
- (F) A list of cost-effective energy conservation measures that are within the facility's control;
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.f]
- (G) A list of the energy savings potential of the energy conservation measures identified; and
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.g]
- (H) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
[40 CFR Part 63 Subpart DDDDD, Table 3, Item No. 4.h]

b. Record Keeping Requirements

- i. The Permittee shall make and keep the following records: [40 CFR §63.7555(a)]
 - (A) A copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.7555(a)(1)]
 - (B) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).
[40 CFR §63.7555(a)(2)]
- ii. The Permittee's records shall be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). [40 CFR §63.7560(a)]

Section III: Applicable Requirements and Compliance Demonstration

- iii. As specified in 40 CFR §63.10(b)(1), the Permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
[40 CFR §63.7560(b)]
- iv. The Permittee shall keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). The Permittee may keep the records off site for the remaining three years.
[40 CFR §63.7560(c)]

c. Reporting Requirements

The Permittee shall include with the Notification of Compliance Status a signed certification that the energy assessment was completed according to 40 CFR Part 63 Subpart DDDDD, Table 3 and is an accurate depiction of the facility at the time of the assessment. The Notification of Compliance Status shall include the following certification of compliance, as applicable, and signed by a responsible official: “This facility has had an energy assessment performed according to 40 CFR §63.7530(e).”
[40 CFR §63.7530(e) and 40 CFR §63.7545(e)(8)(ii)]

D. EU-40 (Fire Pump Engine)

Registration or Regulation Number: 40 CFR Part 60 Subpart IIII

NSPS Designation: 2007 Model Year and Later Emergency Engines with < 30 L/cylinder, Constructed After 7/11/05 and Manufactured After 4/1/06

1. Hours of Operation

a. Limitation or Restriction

- i. The Permittee shall operate the emergency stationary Internal Combustion Engine (ICE) according to the requirements in 40 CFR §§60.4211(f)(1) through (3). In order for the engine to be considered an emergency stationary ICE under this 40 CFR Part 60 Subpart IIII, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs 40 CFR §§60.4211(f)(1) through (3), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR §§60.4211(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR Part 60 Subpart IIII and shall meet all requirements for non-emergency engines.
[40 CFR §60.4211(f)]
- ii. There is no time limit on the use of emergency stationary ICE in emergency situations.
[40 CFR §60.4211(f)(1)]
- iii. The Permittee may operate their emergency stationary ICE for any combination of the purposes specified in 40 CFR §§60.4211(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph 40 CFR §60.4211(f)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR §60.4211(f)(2).
[40 CFR §§60.4211(f)(2)(i-iii)]

Section III: Applicable Requirements and Compliance Demonstration

- (A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - (C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of five percent or greater below standard voltage or frequency.
- iv. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR §60.4211(f)(2). Except as provided in 40 CFR §60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §§60.4211(f)(3)(i)(A-E)]
- (A) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - (1) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
 - (2) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (3) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (4) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee.

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

If the emergency stationary CI ICE does not meet the standards applicable to non-emergency engines, the Permittee shall install a non-resettable hour meter prior to startup of the engine.
[40 CFR §60.4209(a)]

c. Record Keeping Requirements

The Permittee shall make and keep a record of the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR §60.4214(b)]

2. Fuel Sulfur Content

a. Limitation or Restriction

The fuel sulfur content shall not exceed 15 ppm. [40 CFR §60.4207(b) and 40 CFR §80.510(b)]

b. Monitoring Requirements

Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil.
[RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep records of fuel sulfur content for each oil fuel shipment for this equipment. [RCSA §22a-174-33(j)(1)(K)(ii)]

3. NO_x +NMHC

a. Limitation or Restriction

7.5 g/KW-hr (5.6 g/hp-hr)
[40 CFR §60.4205(b), 40 CFR §60.4202(a)(1)(ii), 40 CFR Part 60 Subpart III, Table 2]

b. Record Keeping Requirements

The Permittee shall keep records of the engine certification. [RCSA §22a-174-33(j)(1)(K)(ii)]

4. CO

a. Limitation or Restriction

5.5 g/KW-hr (4.1 g/hp-hr)
[40 CFR §60.4205(b), 40 CFR §60.4202(a)(1)(ii), 40 CFR Part 60 Subpart III, Table 2]

Section III: Applicable Requirements and Compliance Demonstration

b. Record Keeping Requirements

The Permittee shall keep records of the engine certification. [RCSA §22a-174-33(j)(1)(K)(ii)]

5. PM

a. Limitation or Restriction

0.30 g/KW-hr (0.22 g/hp-hr)

[40 CFR §60.4205(b), 40 CFR §60.4202(a)(1)(ii), 40 CFR Part 60 Subpart III, Table 2]

b. Record Keeping Requirements

The Permittee shall keep records of the engine certification. [RCSA §22a-174-33(j)(1)(K)(ii)]

6. Opacity

a. Limitation or Restriction

i. Opacity shall not exceed the following:

[40 CFR §60.4202(a)(1)(ii) and 40 CFR §§1039.105(b)(1-3)]

(A) 20 percent during acceleration mode;

(B) 15 percent during the lugging mode; and

(C) 50 percent during the peaks in either the acceleration or lugging modes.

b. Record Keeping Requirements

The Permittee shall keep records of the engine certification. [RCSA §22a-174-33(j)(1)(K)(ii)]

7. Operation and Maintenance

a. Limitation or Restriction

i. The Permittee shall operate and maintain stationary CI ICE that achieve the emission standards of 40 CFR §60.4205 over the entire life of the engine. [40 CFR §60.4206]

ii. The Permittee shall do all of the following: [40 CFR §§60.4211(a)(1) and (2)]

(A) Operate and maintain the stationary CI ICE according to the manufacturer's emission-related written instructions; and

(B) Change only those emission-related settings that are permitted by the manufacturer.

iii. The Permittee shall purchase an engine certified to the emission standards in 40 CFR §60.4205(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications. [40 CFR §60.4211(c)]

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall comply with the applicable General Provisions listed in 40 CFR Part 60 Subpart III, Table 8. [40 CFR §60.4218 and 40 CFR Part 60 Subpart III, Table 8]

b. Monitoring Requirements

If the Permittee does not install and configure the engine according to the manufacturer's emission-related written instructions, or the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of such action.

[40 CFR §60.4211(g)(1)]

c. Record Keeping Requirements

- i. The Permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 CFR §60.4211(g)(1)]
- ii. The Permittee shall make and keep manufacturer's emission-related written instructions.
[RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall make and keep records sufficient to show compliance with applicable General Provisions requirements of 40 CFR Part 60 Subpart III, Table 8.
[RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

E. PREMISES-WIDE GENERAL REQUIREMENTS

1. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
3. **Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.

Section III: Applicable Requirements and Compliance Demonstration

- 16. 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).
- 17. Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).

Section IV: Compliance Schedule

TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	Applicable Regulations	Steps Required for Achieving Compliance (Milestones)	Date by which Each Step is to be Completed	Dates for Monitoring, Record Keeping, and Reporting
GEU-2 (i.e. 2-VRU)	RCSA §22a-174-5(e)(2)	Schedule Stack Test	3/17/16	5/16/16

Section V: State Enforceable Terms and Conditions

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

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

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

Section V: State Enforceable Terms and Conditions

- F.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- G.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- H.** Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.

Section VI: Title V Requirements

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

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of the Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: U.S. EPA New England, 5 Post Office Square, Suite 100 (OES04-2), Boston, Massachusetts 02109, Attn: Air Clerk.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

Section VI: Title V Requirements

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

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

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

Y. CREDIBLE EVIDENCE

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

Print for Compliance Certification or Enforcement

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

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

Print Enforcement Checklist

Print Compliance Certification