



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

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

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

Title V Permit Number	<i>070-0194-TV</i>
Client/Sequence/Town/Premises Numbers	800/001/070/0028
Date Issued	March 20, 2014
Expiration Date	March 20, 2019

Corporation:

United States Navy, Submarine Base New London

Premises Location:

Route 12, Groton, Connecticut 06349-5039

Name of Responsible Official and Title:

Carl Lahti, Captain USN, Commanding Officer

All the following attached pages, 2 through 75, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for
Robert J. Klee
Commissioner

March 20, 2014
Date

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Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

<i>Abbreviation/Acronym</i>	<i>Description</i>
°C	Degree Celsius
°F	Degree Fahrenheit
bhp	brake horse power
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO	Consent Order
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
ft ³	Cubic Feet
g	Gram
gal	Gallon
GEU	Grouped Emissions Unit
H ₂ O	Water
HAP	Hazardous Air Pollutant
HCl	Hydrochloric Acid
HEPA	High Efficiency Particulate Air
hr	Hour
in	Inch
kW	Kilowatt
L	Liter
lb	Pound
MMBTU	Million British Thermal Units
mmHg	Millimeters Mercury
MRC	Maximum Rated Capacity
MSDS	Material Safety Data Sheet
MW	Megawatt
NERC	North American Electric Reliability Corporation
NESHAP	National Emission Standards for Hazardous Air Pollutants
No.	Number
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O ₂	Oxygen
Pb	Lead
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns
PM _{2.5}	Particulate Matter less than 2.5 microns
ppm	Parts Per Million
ppmvd	Parts per million, volumetric basis dry
PTE	Potential to Emit

LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
R	Registration
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
SO _x	Sulfur Oxides
SOS	Standard Operating Scenario
SUBASENLON	US Navy Submarine Base New London
tpy	Tons per year
TSM	Total Suspended Matter
TSP	Total Suspended Particulate
TV	Title V Permit
USN	United States Navy
VOC	Volatile Organic Compound
VOHAP	Volatile Organic Hazardous Air Pollutant
wt%	Weight Percent

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: National Defense
Primary SIC: 9711

Facility Mailing Address: Naval Submarine Base New London
Environmental Department, Code N8S
Box 39
Groton, CT 06349-5039

Telephone Number: (860) 694-5159

B. PREMISES DESCRIPTION

The United States Navy owns and operates the Naval Submarine Base New London (SUBASENLON) located in the towns of Groton and Ledyard, Connecticut. The facility is a major source of SO₂, CO, VOC, NO_x, and HAPs and is located in an ozone non-attainment area defined in RCSA §22a-174-1(103). Emission sources in operation at the facility include boilers, a cogeneration system, emergency engines, non-emergency engines, cold-cleaning parts cleaners, paint spray booths, solvent dip tanks, drydock, and pierside coating operations, metal and woodworking shops, grit blast stations, fuel dispensing systems, and underground storage tanks.

Powerhouse

Four large boilers located in Building 29 produce superheated, high pressure steam that is used to heat buildings throughout the Base. Two Babcock & Wilcox boilers (EU-1 & 3) are registered (R 070-0196 & 198) and have been grouped into GEU-1. A request for an alternative maximum capacity, in accordance with Section 22a-174-22(k)(2)(A) of the Regulations of Connecticut State Agencies, for the two Babcock & Wilcox boilers was made in a letter dated February 28, 2012. Due to reductions in base steam load requirements since installing the boilers, SUBASENLON believes that NO_x emission testing at or above 90% of maximum boiler rated capacity is no longer feasible. Therefore SUBASENLON has placed collateral conditions limiting the operating capacity of Boilers 1 and 3 to 79 MMBTU/hr by modifying the Solar Taurus 60 turbine permit and revised the registrations for Boilers 1 and 3 to reflect this change.

Two new large Cleaver Brooks boilers (EU-386 and EU-416) were issued permits to operate on 12/14/2010 (070-0279) and 5/5/2011 (070-0283), respectively. The Cleaver Brooks Boilers are subject to the New Source Performance Standard (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60 Subpart Dc). All four boilers are subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63 Subpart DDDDD). The two Babcock & Wilcox boilers are equipped with low-NO_x burners, but do not employ flue gas recirculation systems or any add-on control devices. The two Babcock & Wilcox boilers are designated to burn light liquid fuel under 40 CFR 63 Subpart DDDDD and the two Cleaver Brooks boilers are designated to burn Gas 1 fuels under 40 CFR 63 Subpart DDDDD.

A Solar Taurus 60 turbine and duct burner with unfired heat recovery steam generator, 5MW combined cycle cogeneration system (EU-7), located in Building 29, supplies electrical power and steam for the facility. The unit burns natural gas. The capability to burn No. 2 fuel oil as a back-up fuel was removed in 2006. The unit was issued the permit to construct 070-0096 on 4/3/1996, the permit to operate on 4/3/1997, a revised permit on 5/7/2002, and a minor modification issued on 11/18/2013. NO_x emissions of the turbine are controlled by water injection. CO emissions of the turbine are controlled by an

Section I: Premises Information/Description

oxidation catalyst. The turbine is subject to the NSPS for Stationary Gas Turbines (40 CFR Part 60 Subpart GG) and the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines (40 CFR Part 63 Subpart YYYYY). However, per 40 CFR §63.6090(b)(4), existing turbines do not have to meet the requirements of 40 CFR Part 63 Subparts YYYYY and A. The duct burner is subject to the NSPS for Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Db).

A Waukesha generator (EU-8), located in Building 29, provides electrical power for black start purposes only. The generator was issued the permit to construct 070-0061 on 8/7/1987 and the permit to operate on 7/8/1988. The generator is an existing affected source subject to the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63 Subpart ZZZZ). The Waukesha generator is considered an emergency generator under 40 CFR 60 Subpart ZZZZ.

Other Boilers

All boilers/burners that do not require registration or permit have been grouped into GEU-2.

Engines

All stationary emergency engines that are subject to RCSA §22a-174-3b(e) have been grouped into GEU-3.

All stationary emergency engines that are subject to RCSA §22a-174-3b(e) and §22a-174-22 have been grouped into GEU-4.

All stationary emergency engines that do not require registration or permit have been grouped into GEU-5.

All stationary non-emergency engines that do not require registration or permit have been grouped into GEU-6.

The engines are subject to the NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63 Subpart ZZZZ). Based on the construction and model year of the engines, the NSPS for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII) and Stationary Spark Ignition Internal Combustion Engines (40 CFR 60 Subpart JJJJ) are applicable.

Cold Cleaning

All cold cleaning units that do not require registration or permit have been grouped into GEU-7.

Coating Operations

A JBI paint booth (EU-86), located in Building 38, coats wood products using air atomized spray guns. Particulate matter emissions are controlled with a HEPA filter. It does not require registration or permit.

A Plasma Arc Thermal Spray Unit (EU-295), located in Building 478, coats aluminum deck plates for submarines. Particulate matter emissions are controlled with a HEPA filter. It does not require registration or permit and is an insignificant source.

All miscellaneous metal parts coating operations that are subject to RCSA §§22a-174-3b(g) and 20(s) have been grouped into GEU-8. Included in this group are a Nordson electrostatic powder paint system (EU-126) and associated curing oven (EU-134), located in Building 174, and an Atlantic Spray Booth electrostatic powder paint system (EU-377) and associated curing oven (EU-138), located on the Spruce Barge. Particulate matter emissions from these units are controlled with HEPA filters.

Section I: Premises Information/Description

All non-metal coating operations that are subject to RCSA §22a-174-3b(g) and the NESHAP for Shipbuilding and Ship Repair (40 CFR Part 63 Subpart II) have been grouped into GEU-9. Included in this group are a Binks airless air-assisted spray booth for fiberglass masts (EU-162), located in Building 456 and a fiberglass paint booth (EU-398) located in Building 1. Particulate matter emissions from these units are controlled with HEPA filters. Also included in this group is Electric Boat submarine maintenance coating operations performed at Barge 21 (EU-242) and Portsmouth NSY submarine maintenance coating operations performed at Pier 13 (EU-243).

All coating operations that are subject to RCSA §22a-174-20(s) and Consent Order 8049 have been grouped into GEU-10. Included in this group are the Plasti-Sol tanks (EU-238) and associated bake oven (EU-240), located in Building 174, and the bake oven (EU-239), located in Building 40. Also included in this group are two ACRASTRIP Plastisol Removers (EU-296 and EU-391) and an exhaust hood (EU-256). These sources do not require registration or permit.

All coating operations that are subject to the NESHAP for Shipbuilding and Ship Repair only have been grouped into GEU-11. These operations include Shippingport Drydock submarine maintenance at ARDM-4 (EU-241), basewide NESHAP coating operations (EU-285), and SPRUCE barge NESHAP coating operations (EU-380). These operations do not require registration or permit.

Abrasive Blast Booth

A walk-in abrasive blast booth (EU-131) is located in Building 174. Particulate matter emissions are controlled with a HEPA filter. The abrasive blast booth was issued the permit to construct and operate 070-0231 on 12/15/1999 and a modified permit on 9/10/2001.

Gasoline Dispensing Facility

A gasoline dispensing facility (EU-81), including the associated underground storage tanks, is operated at Building 428. The Stage II vapor recovery system was removed on 9/18/2013.

Premises-wide General Requirements

The facility is subject to the NESHAP for Radionuclide Emissions (40 CFR Part 61 Subpart I). The primary source of radionuclide emissions is the radioactive materials associated with the maintenance and overhaul of nuclear powered ships.

The facility is subject to the NESHAP for Asbestos (40 CFR Part 61 Subpart M). The source of asbestos emissions is building demolition and renovation.

The facility contains a number of refrigerant containing devices that have a capacity of 50 pounds or greater, which makes them subject to the leak detection, repair and recycling provisions (40 CFR Part 82 Subpart F). These devices include refrigerators, chillers, condensers, air conditioners, dehumidifiers and fire suppression systems.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
GEU-1	79 MMBTU/hr Babcock & Wilcox Boiler 1 – const. 1961 79 MMBTU/hr Babcock & Wilcox Boiler 3 – const. 1965	Low NOx burner Low NOx burner	R 070-0196 R 070-0198, Collateral Conditions in NSR Permit No. 070-0096 Part X.1-6 40 CFR 63 Subpart DDDDD
EU-386 EU-416	49 MMBTU/hr Cleaver Brooks Boiler 1S –const. 2011 49 MMBTU/hr Cleaver Brooks Boiler 4 – const. 2011	Ultra-Low NOx burner Ultra-Low NOx Burner	NSR Permit No. 070-0279 NSR Permit No. 070-0283 40 CFR 60 Subpart Dc 40 CFR 63 Subpart DDDDD
EU-7	Solar Taurus 60 Turbine and Duct Burner with Heat Recovery Steam Generator, 5MW Combined Cycle Cogeneration System – const. 1996	Water Injection Oxidation catalyst Low NOx Duct Burner	NSR Permit No. 070-0096 40 CFR 60 Subpart GG 40 CFR 60 Subpart Db
EU-8	1500 kW Waukesha Generator – const. 1987	None	NSR Permit No. 070-0061 40 CFR 63 Subpart ZZZZ
GEU-3	Miscellaneous Emergency Engines subject to RCSA §22a-174-3b(e) (PTE ≥ 15tpy)	None	RCSA §22a-174-3b(e) 40 CFR 60 Subpart IIII 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart ZZZZ
GEU-4	Miscellaneous Emergency Engines subject to RCSA §22a-174-3b(e) (PTE ≥ 15tpy) and RCSA §22a-174-22 (MRC ≥ 3 MMBTU/hr)	None	RCSA §22a-174-3b(e) RCSA §22a-174-22 40 CFR 60 Subpart IIII 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart ZZZZ

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
GEU-5	Miscellaneous Emergency Engines (PTE < 15tpy)	None	Collateral Conditions in NSR Permit No. 070-0279 Part VII.C-F and NSR Permit No. 070-0283 Part VII.C-F 40 CFR 60 Subpart IIII 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart ZZZZ
GEU-7	Miscellaneous Solvent Cleaners	None	RCSA §22a-174-20(l)
EU-86	JB I Paint Booth for wood products	HEPA filter	None
GEU-8	Coating Systems for miscellaneous metal parts subject to Sections 3b(g) & 20(s)	HEPA filters	RCSA §22a-174-3b(g) RCSA §22a-174-20(s)
GEU-9	Coating Systems for non-metal parts subject to Section 3b(g) & Ship Building & Repair NESHAP	HEPA filters	RCSA §22a-174-3b(g) 40 CFR 63 Subpart II
GEU-10	Coating operations subject to Section 20(s) & Consent Order 8049	HEPA filters	Consent Order 8049 RCSA §22a-174-20(s)
GEU-11	Miscellaneous Coating subject to Ship Building & Repair NESHAP	None	40 CFR 63 Subpart II
EU-131	Abrasive Blast Booth	HEPA Filter	NSR Permit No. 070-0231
EU-81	Gasoline Dispensing and 2 Underground Gasoline Storage Tanks	Stage I Vapor Recovery System	None
<i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this permit:</i>			
GEU-2	Miscellaneous Boilers/Burners	None	None

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

Table II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
GEU-1, EU-386, EU-416, GEU-2	Boilers combust natural gas and No. 2 fuel oil and employ low NOx burners (GEU-1) or ultra-low NOx burners (EU-386 and EU-416) to limit NOx emissions.
EU-7	Turbine combusts No. 2 fuel oil or natural gas to produce electricity. Turbine employs water injection, an oxidation catalyst, and Low NOx burners to control NOx emissions.
EU-8	Generator combusts No. 2 fuel oil to produce electricity for black start purposes.
GEU-3, GEU-4, GEU-5	Emergency engines combust diesel or alternate fuel to provide power for emergency purposes only.
GEU-7	Cold cleaners use miscellaneous solvent cleaners to clean metal parts in accordance with RCSA §22a-174-20(l).
EU-86	Spray booth uses paints to coat wood products and employs the use of a HEPA filter to control particulate emissions.
GEU-8, GEU-10	Spray booths use paints to coat miscellaneous metal parts in accordance with RCSA §22a-174-20(s) and use HEPA filters to control particulate emissions.
GEU-9	Spray booths coat non-metal (including fiberglass) parts in accordance with the Shipbuilding & Repair NESHAP and use HEPA filters to control particulate emissions.
GEU-11	Miscellaneous coating operations coat ships in accordance with the Shipbuilding & Repair NESHAP.
EU-131	Abrasive blast booth uses steel grit and aluminum oxide to remove paint from ships and uses HEPA filters to control PM emissions.
EU-81	Gasoline dispensing operations and two underground gasoline storage tanks dispense and store gasoline at the facility. The gasoline dispensing operations utilize a Stage 1 Vapor Recovery system.

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSIONS UNIT 1 (GEU-1) – Two Babcock & Wilcox Boilers

1. Fuel Usage

a. Limitation or Restriction

- i. Each boiler shall combust only natural gas and No. 2 fuel oil. [NSR Permit No. 070-0096 Part VIII.B]
- ii. These two boilers combined shall be limited to a maximum heat input over any consecutive 12 month period of 725,750 MMBTU. [NSR Permit No. 070-0096 Part VIII.C]
- iii. The Permittee shall limit the maximum operating capacity of each Babcock Wilcox Boiler 1 & 3 to 79 MMBTU/hr. [NSR Permit No. 070-0096 Part VII.A]
- iv. The Permittee shall comply with the heat input capacity limitation in Part III.A.1.a.iii. of this Title V permit by restricting the fuel firing rate to 9.4 gallons per minute when firing No. 2 fuel oil and 1,290 cubic feet per minute when firing natural gas. [NSR Permit No. 070-0096 Part VII.C]

b. Monitoring Requirements

- i. The Permittee shall monitor the fuel usage of each of the two powerhouse boilers, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The firing rate limitations in Part III.A.1.a.iv. of this Title V permit shall be programmed into the electronic boiler control system to prevent firing above those rates. [NSR Permit No. 070-0096 Part VII.C]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the monthly and consecutive 12 month natural gas and No. 2 fuel oil usage of the two powerhouse boilers. The consecutive 12 month fuel usage shall be calculated by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall record these figures monthly. [RCSA §22a-174-4(d)(1)]
- ii. Determination of the heat input capacity limit in Part III.A.1.a.iii. of this Title V permit shall be calculated using the higher heating value of 1,020 BTU/scf of natural gas and 140,000 BTU/gal of No. 2 fuel oil. [NSR Permit No. 070-0096 Part VII.B]
- iii. The Permittee shall make and keep records of the hourly fuel firing rates achieved for the Babcock Wilcox Boilers 1 and 3. [NSR Permit No. 070-0096 Part VII.D]

d. Reporting Requirements

- i. The Permittee shall report the fuel usage of each of the two powerhouse boilers in the annual emission statement. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall keep records required by Part III.A.1.c.iii. for a period of no less than 5 years and shall submit such records to the commissioner upon request. [NSR Permit No. 070-0096 Part VII.E]

2. Sulfur Content

a. Limitation or Restriction

- i. Each boiler shall combust No. 2 fuel oil with a sulfur content less than 0.3%, dry weight. [NSR Permit No. 070-0096 Part VIII.B]

b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the No. 2 fuel oil using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of the No. 2 fuel oil burned in the two powerhouse boilers. Records for a fuel certification or contract shall include the following information, as appropriate: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report the sulfur content of the No. 2 fuel oil burned in the two powerhouse boilers in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Emission Rates

a. Limitation or Restriction

- i. Each of the two powerhouse boilers shall not exceed the following emission rates [NSR Permit No. 070-0096 Part VIII.D]:

<u>Pollutant</u>	<u>Natural Gas lb/MMBTU</u>	<u>No. 2 Oil lb/MMBTU</u>
TSP	0.010	0.010
PM-10	0.010	0.010
SOx	0.002	0.312
NOx	0.150	0.150
VOC	0.016	0.020
CO	0.073	0.033

b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with the emission rates in Part A.4.a.i of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the emission calculations for all pollutants for the two powerhouse boilers using the maximum hourly fuel rating and emission factors AP-42 or the most recent stack test data, when available. [RCSA §22a-174-4(d)(1)]:

d. Reporting Requirements

- i. The Permittee shall submit records demonstrating compliance with the lb/MMBTU limitations for the two powerhouse boilers to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

4. NO_x

a. Limitation or Restriction

- i. Each boiler shall be equipped with a state of the art low NO_x burner technology. [NSR Permit No. 070-0096 Part VIII.A]
- ii. Each of the two powerhouse boilers shall not exceed a NO_x emission rate of 0.150 lb/MMBTU. [NSR Permit No. 070-0096 Part VIII.D]
- iii. Should either of these boilers exceed the NO_x limit of 0.15 lb/MMBTU, the U.S. Navy Submarine Base shall still prove offset compliance by meeting the two boiler aggregate hourly limit of 58.8 lb/hr and the consecutive 12 month limit of 62 tons per year. [NSR Permit No. 070-0096 Part VIII.E]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of the two powerhouse boilers to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. Compliance with the emission limitations of RCSA §22a-174-22 shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period. Any analysis of nitrogen content conducted as part of such emission testing shall be in accordance with Method D-3228 of the American Society for the Testing of Materials. If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]
- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60, Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity for a fuel-burning source. [RCSA §22a-174-22(k)(2)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep the following records [RCSA §22a-174-22(l)(1)(D), (E), (H) & (J)]:
 - (A) Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
 - (C) Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(l)(5)]

d. Reporting Requirements

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(l)(2)]
- ii. On or before April 15 of each year, the Permittee shall submit a report on NO_x emissions from such source, on a form provided by the commissioner. The Permittee shall comply with this requirement by reporting NO_x emissions for this emission unit in the annual emissions statement. [RCSA §22a-174-22(l)(6)]

5. HCL, Mercury, CO, and Filterable PM

a. Limitation or Restriction

- i. The Permittee shall comply with the following emission limitations by no later than January 31, 2016. The emission limitations shall apply at all times except during periods of start-up and shutdown [40 CFR §63.7500(a)]:
 - (A) HCl – 1.1E-03 lb/MMBTU;
 - (B) Mercury – 2.0E-06 lb/MMBTU;
 - (C) CO – 130 ppmvd @ 3% O₂ as measured using an O₂ analyzer system. The Permittee shall maintain a 30-day rolling average oxygen content at or above the lowest hourly average oxygen content measured during the most recent CO performance test; and
 - (D) Filterable PM – 7.9E-03 lb/MMBTU.

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b. Monitoring Requirements

- i. The Permittee shall conduct an initial performance test for HCl, Mercury, CO, and Filterable PM in accordance with 40 CFR §63.7520 and Table 5 of 40 CFR 63 Subpart DDDDD. These tests shall be conducted no later than January 31, 2016. [40 CFR §63.7510(a)(1)&(e)]
- ii. The Permittee shall conduct a fuel analysis of the No. 2 fuel oil burned in the boiler in accordance with 40 CFR §63.7521 and Table 6 of 40 CFR 63 Subpart DDDDD. This test shall be conducted no later than January 31, 2016. [40 CFR §63.7510(a)(2)&(e)]
- iii. The Permittee shall demonstrate compliance with the emissions limits using annual performance stack testing or fuel analysis as applicable. Annual performance tests must be completed no more than 13 months after the previous performance test, unless performance tests for a given pollutant for at least 2 consecutive years show that the emissions are at or below 75% of the emissions limit for the pollutant and there are no changes in operation of the boiler that could increase emissions. In this case, a performance test for the given pollutants may be conducted no more than 37 months after the previous performance test. If the performance test indicates the pollutant emissions are above 75% of the emissions limitation, the Permittee shall conduct annual performance testing until all performance tests for that pollutant over a consecutive 2-year period are at or below 75% of the emissions limit. [40 CFR §63.7515(a), (b), & (c)]
- iv. The Permittee shall install, operate, and maintain an oxygen analyzer system to demonstrate compliance with the CO emission limitation, no later than January 31, 2016. [40 CFR §63.7525(a)]

c. Record Keeping Requirements

- i. The Permittee shall comply with the following Record Keeping Requirements no later than January 31, 2016.
 - (A) The Permittee shall use the results of the initial performance testing required in Section III.A.5.b.i. of the Title V permit to establish operating limits in accordance with 40 CFR §63.7530 and Table 7 of 40 CFR 63 Subpart DDDDD. [40 CFR §63.7510(a)(3)]
 - (B) The Permittee shall keep a copy of each notification and report submitted to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Notification of Compliance Status or semiannual report submitted.[40 CFR §63.7555(a)(1)]
 - (C) The Permittee shall keep records of all performance tests, fuel analyses or other compliance demonstrations and performance evaluations. [40 CFR §63.7555(a)(2)]
 - (D) The Permittee shall make and keep records of monthly fuel use by the boiler, including the type of fuel and amount used.[40 CFR §63.7555(d)(1)]
 - (E) The Permittee shall make and keep records of the 30-day rolling average oxygen content for the boiler on a daily basis. Such records shall be made by averaging the current day's oxygen content with the previous consecutive 29 days. [RCSA §22a-174-33(j)(1)(K)(ii)]
 - (F) The Permittee shall keep a copy of all calculations and supporting documentation of maximum chlorine fuel input to demonstrate continuous compliance with the HCl emission limit. [40 CFR §63.7555(d)(4)]

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- (G) If stack testing is conducted less frequently than annually, the Permittee shall keep a record to demonstrate the emissions in the previous stack tests were less than 75% of the applicable emission limit and document that there was no change in boiler operations including fuel composition and operation of air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past year. [40 CFR §63.7555(d)(6)]
- (H) The Permittee shall make and keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment and of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the malfunctioning boiler or process heater, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR §63.7555(d)(7)&(8)]
- (I) The Permittee shall make and keep records of the calendar date, time, occurrence, and duration of each start-up and shutdown event and the fuels used during each start-up and shutdown event. [40 CFR §63.7555(d)(10)&(11)]

d. Reporting Requirements

- i. The Permittee shall submit a Notification of Compliance Status for the boiler including all performance test results and fuel analyses before the close of business on the 60th day following the completion of all initial performance tests or initial compliance demonstrations for all boilers at the facility. The Notification of Compliance Status shall also be submitted within 60 days of any deviation from any emission limit or operating limit. The Notification of Compliance Status shall contain the following [40 §CFR 63.7545(e)]:
 - (A) A description of the boiler including identification of which subcategories the unit is in, the design heat capacity of the unit, a description of the add-on controls used on the unit to comply with the subpart, description of the fuels burned, and justification for the selection of fuels burned during the compliance demonstration.
 - (B) Summary of the results of all performance tests and fuel analyses, and calculations conducted to demonstrate initial compliance including all established operating limits and including:
 - (1) Identification of whether the Permittee is complying with the PM emission limit or the alternative TSM emission limit.
 - (2) Identification of whether the Permittee is complying with the output-based emission limits or the heat input-based (i.e., lb/MMBtu or ppm) emission limits
 - (C) A summary of the maximum CO emission levels recorded during the performance test to show that the applicable CO emission limitation has not been exceeded.
 - (D) Identification of whether the Permittee plans to demonstrate compliance with each applicable emission limit through performance testing, as CEMS, or fuel analysis.
 - (E) A signed certification that you have met all applicable emission limits and work practice standards.
 - (F) A description of the deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report, as applicable.

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- (G) The Notification of Compliance Status shall be signed by a responsible official and contain the following certifications:
- (1) “This facility complies with the required initial tune-up according to the procedures in 40 CFR §63.7540(a)(10)(i) through (vi).”
 - (2) “This facility has had an energy assessment performed according to 40 CFR §63.7530(e).”
 - (3) “No secondary materials that are solid waste were combusted in any affected unit.”
- ii. Within 60 days of completing any performance test or evaluation, the Permittee shall submit the results to EPA. [40 CFR §63.7550(h)(1)]
- iii. The Permittee shall keep records required by Section III.A.5.c. of the Title V Permit for a period of 5 years from the date that each record was created and must be made available upon request. Such records shall be kept or readily accessible from on site for at least 2 years after the record was created. Records may be kept off-site for the remaining 3 years. [40 §CFR 63.7560(b)&(c)]

6. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall conduct an initial tune up of the boiler no later than January 31, 2016. [40 CFR §63.7510(e)] Subsequent tune ups of the boiler shall be conducted annually. The tune-up shall include the following [40 CFR §63.7540(a)(10)]:
- (A) An inspection of the burner, cleaning and replacement of any components of the burner, as necessary.
 - (B) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer’s specifications.
 - (C) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer’s specification and with the boiler’s NOx limitation.
 - (D) Measurement of the concentrations in the effluent stream of CO in parts per million by volume (ppmv) and oxygen in volume percent before and after the adjustments are made.
- ii. The Permittee must have a one-time energy assessment performed by a qualified energy assessor on or before January 31, 2016. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements, satisfies the energy assessment requirement. The energy assessment must include [40 CFR §63.7510(e)]:
- (A) A visual inspection of the boiler system.
 - (B) An evaluation of operating characteristics of the boiler systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
 - (C) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the Permittee.

Section III: Applicable Requirements and Compliance Demonstration

- (D) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
 - (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.
 - (F) A list of cost effective energy conservation measures that are within the facility's control.
 - (G) A list of the energy savings potential of the energy conservation measures identified.
 - (H) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- iii. The Permittee shall operate and maintain the boiler including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.7500(a)(3)]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual tune-ups including the following information [40 CFR §63.7540(a)(10)]:
 - (A) The concentrations of CO in the effluent stream in ppmv and oxygen in volume percent measured before and after the tune-up of the boiler.
 - (B) A description of any corrective action taken as part of the tune-up.
 - (C) The type and amount of fuel used over the 12 months prior to the tune-up.
- ii. The Permittee shall make and keep records sufficient to prove a comprehensive energy assessment was completed including the date on which such energy assessment was conducted. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall keep records required by Section III.A.6.b. of the Title V Permit for a period of 5 years from the date that each record was created and must be made available upon request. Such records shall be kept or readily accessible from on site for at least 2 years after the record was created. Records may be kept off-site for the remaining 3 years. [40 CFR §63.7560(b)&(c)]

B. EMISSIONS UNITS 386 & 416 (EU-386 & EU-416) – Cleaver Brooks Boilers 1S and 4

1. Fuel Usage

a. Limitation or Restriction

- i. Each Cleaver Brooks Boiler shall only combust natural gas and low sulfur No. 2 fuel oil. [NSR Permit Nos. 070-0279 and 070-0283 Part I.B.1]

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- ii. Each Cleaver Brooks Boiler shall be limited to a maximum low sulfur fuel oil consumption over any consecutive 12-month period of 251,938 gallons. [NSR Permit Nos. 070-0279 and 070-0283 Part II.A.1]
- iii. Each Cleaver Brooks Boiler shall be limited to a maximum natural gas consumption over any consecutive 12-month period of 429.135 million cubic feet of gas (MMcf) minus $[0.00014 \times \text{Annual Fuel Oil Consumed in Gallons}]$. [NSR Permit Nos. 070-0279 and 070-0283 Part II.A.2]

b. Monitoring Requirements

- i. The Permittee shall use non-resettable totalizing fuel metering devices to continuously monitor fuel feed for each type of fuel, natural gas and fuel oil, to each permitted source. [NSR Permit Nos. 070-0279 and 070-0283 Part III.A.1]

c. Record Keeping Requirements

- i. The Permittee shall record the monthly and consecutive 12 month fuel consumption for each boiler. The consecutive 12-month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations monthly. [NSR Permit Nos. 070-0279 and 070-0283 Part III.B.1]
- ii. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day for each boiler. [40 CFR §60.48c(g)]

d. Reporting Requirements

- i. The Permittee shall report the fuel usage of each Cleaver Brooks Boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

- i. The maximum sulfur content of No. 2 fuel oil for each Cleaver Brooks Boiler is 0.05% by weight, dry basis. [NSR Permit Nos. 070-0279 and 070-0283 Part II.A.3]

b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the No. 2 fuel oil using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the fuel certification for each delivery of fuel oil from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by this equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include, as appropriate, the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [NSR Permit Nos. 070-0279 and 070-0283 Part III.B.3]

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- ii. Fuel supplier certification shall include the following information for distillate oil [40 CFR §60.48c(f)(1)]:
 - (A) the name of the oil supplier
 - (B) a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR §60.41c.

d. Reporting Requirements

- i. The Permittee shall report the sulfur content of the No. 2 fuel oil burned in each Cleaver Brooks Boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR §60.42c shall submit semi-annual reports to the Administrator. Each subsequent semi-annual report shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.48c(j)]
- iii. The Permittee shall submit semi-annual reports to the Administrator. Each subsequent semi-annual report shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.48c(j)]

3. Allowable Emissions Limits

a. Limitation or Restriction

- i. The Permittee shall not cause or allow each Cleaver Brooks Boiler to exceed the emission limits stated herein at any time. [NSR Permit Nos. 070-0279 and 070-0283 Part V.A]

	<u>lb/hr (gas)</u>	<u>lb/hr (oil)</u>	<u>tpy</u>
PM	0.37	1.22	1.94
PM-10	0.37	1.22	1.94
PM-2.5	0.37	1.22	1.94
SO ₂	0.08	2.48	1.21
NO _x	0.52	7.80	4.90
VOC	0.27	0.12	1.18
CO	1.79	1.90	7.87
Pb	2.45E-05	4.41E-04	2.57E-04

b. Monitoring Requirements

- i. The Permittee shall make emissions calculations for each boiler to ensure compliance with the emission rates in Part III.B.3.a.i of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month PM₁₀/PM_{2.5}, SO₂, NO_x, CO, and VOC emissions in units of tons for each boiler. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations monthly. [NSR Permit Nos. 070-0279 and 070-0283 Part III.B.2]
- ii. The Permittee shall make and keep records of the emissions calculations for each Cleaver Brooks Boiler using emission factors from the following sources [NSR Permit No. 070-0279 and 070-0283 Part V]:
 - (A) PM/PM-10/PM 2.5 (oil), CO: Manufacturer's Data
 - (B) NO_x: Manufacturer's Data or Most Recent Stack Test Data
 - (C) SO_x (gas): Manufacturer's Data; SO_x (oil): AP-42
 - (D) PM/PM-10/PM 2.5 (gas), VOC, Pb: AP-42

d. Reporting Requirements

- i. The Permittee shall report the annual emissions of each Cleaver Brooks Boiler in the annual emission statement. [RCSA § 22a-174-4(d)(1)]

4. Opacity

a. Limitation or Restriction

- i. Each unit shall not exceed 20% opacity during any six minute block average or 40% opacity, reduced to a one-minute block average. [NSR Permit Nos. 070-0279 and 070-0283 Part V.C]

b. Monitoring Requirements

- i. The Permittee shall conduct an initial performance test for opacity for each unit as required under 40 CFR §60.8. [40 CFR §60.45c]
- ii. Compliance with opacity standards in this part shall be determined by 40 CFR 60, Appendix A, Reference Method 9 [NSR Permit Nos. 070-0279 and 070-0283 Part V.C]

c. Record Keeping Requirements

- i. The Permittee shall keep records of performance tests for the life of the equipment. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall submit to the commissioner, upon request, the results of any opacity testing. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

5. NO_x

a. Limitation or Restriction

- i. Each Cleaver Brooks Boiler shall not exceed the NO_x emission limitation of 0.20 lb/MMBTU when firing No. 2 oil and natural gas. [RCSA §22a-174-22(e)(Table 22-1)]
- ii. Each Cleaver Brooks Boiler shall be equipped with ultra-low NO_x burner technology with a guaranteed NO_x emission rate of 9 ppm (Natural Gas) and 119 ppm (Low Sulfur Fuel Oil). [NSR Permit Nos. 070-0279 and 070-0283 Part I.C]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of each Cleaver Brooks Boiler to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. Compliance with the emission limitations of RCSA §22a-174-22 shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period. Any analysis of nitrogen content conducted as part of such emission testing shall be in accordance with Method D-3228 of the American Society for the Testing of Materials. If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]
- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60 Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity of a fuel-burning source. [RCSA §22a-174-22(k)(2)]

c. Record Keeping Requirements

- i. The Permittee shall keep the following records for each boiler [RCSA §22a-174-22(l)(1)(D), (E), (H) & (J)]:
 - (A) Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
 - (C) Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
 - (D) Any other records or reports required by and order or permit issued by the commissioner pursuant to RCSA §22a-174-22.

Section III: Applicable Requirements and Compliance Demonstration

- ii The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(1)(5)]
- iii. The Permittee shall keep records of the inspection and maintenance of each boiler. The records shall include the name of the inspector, the date, and the results or actions. [NSR Permit No. 070-0279 and 070-0283 Part III.B.4]

d. Reporting Requirements

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(1)(2)]
- ii. On or before April 15th of each year, the Permittee shall submit a report on NOx emissions from each source, on a form provided by the commissioner. The Permittee shall comply with this requirement by reporting NOx emissions for each emission unit in the annual emission statement. [RCSA §22a-174-22(1)(6)]

6. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall comply with the following work practice standards no later than January 31, 2013:
 - (A) Conduct an initial tune up of the boiler. [40 CFR §63.7510(e)] Subsequent tune ups of the boiler shall be conducted annually. The tune-up shall include the following [40 CFR §63.7540(a)(10)]:
 - (1) An inspection of the burner, cleaning and replacement of any components of the burner, as necessary.
 - (2) An inspection of the flame pattern and adjustment of the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications.
 - (3) Optimization of total emissions of CO. This optimization should be consistent with the manufacturer's specification and with the boiler's NOx limitation.
 - (4) Measurement of the concentrations in the effluent stream of CO in parts per million by volume (ppmv) and oxygen in volume percent (volume %) before and after the adjustments are made.
 - (B) The Permittee shall operate and maintain the boiler including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.7500(a)(3)]

Section III: Applicable Requirements and Compliance Demonstration

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual tune-ups including the following information [40 CFR §63.7540(a)(10)]:
 - (A) The concentrations of CO in the effluent stream in ppmv and oxygen in volume % measured before and after the tune-up of the boiler.
 - (B) A description of any corrective action taken as part of the tune-up.
 - (C) The type and amount of fuel used over the 12 months prior to the tune-up.

c. Reporting Requirements

- i. The Permittee shall keep records required by Section III.B.6.b. of the Title V Permit for a period of 5 years from the date that each record was created and must be made available upon request. Such records shall be kept or readily accessible from on site for at least 2 years after the record was created. Records may be kept off-site for the remaining 3 years. [40 CFR §63.7560(b)&(c)]

C. EMISSIONS UNIT 7 (EU-7) – Solar Taurus 60 Turbine and Duct Burner

1. Fuel Usage

a. Limitation or Restriction

- i. The Solar Taurus 60 Turbine and Duct Burner is limited to maximum fuel consumption over any consecutive 12 month period of 691,432 MMBTU/yr. [NSR Permit No. 070-0096 Part I.C]

The following equation establishes the corresponding maximum fuel consumption while allowing flexibility of burning natural gas and No. 2 oil:

$$X * (0.139 \text{ MMBTU/gal}) + Y * (0.001 \text{ MMBTU/ft}^3) = 691,432 \text{ MMBTU}$$

Where X = gallons of No. 2 oil \leq 1.45 million gallons

Y = ft³ of natural gas \leq 691.432 million ft³

- ii. The U.S. Naval Submarine Base New London shall burn exclusively natural gas during the ozone season from May 1 through September 30, except during a curtailment period, facility maintenance, or times of war. A curtailment period is a period in which the gas supplier ceases to supply natural gas due to a limited supply or a mechanical breakdown in the natural gas supply system. [NSR Permit No. 070-0096 Part I.C]

b. Monitoring Requirements

- i. The Permittee shall monitor the fuel usage of the Solar Taurus 60 Turbine and Duct Burner using a fuel meter. [NSR Permit No. 070-0096 Part III]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the monthly and consecutive 12-month No. 2 fuel oil and natural gas usage of the Solar Taurus 60 Turbine and Duct Burner. The consecutive 12 month fuel usage shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [NSR Permit No. 070-0096 Part IV.A]
- ii. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR §60.48c(g)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel usage of the Solar Taurus 60 Turbine and Duct Burner in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

- i. The No. 2 oil Sulfur content (% by weight, dry basis) for the Solar Taurus 60 Turbine and Duct Burner is limited to 0.3%. [NSR Permit No. 070-0096 Part I.B]

b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the No. 2 fuel oil using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. Each oil fuel shipment of the No. 2 fuel oil burned in the Solar Taurus 60 Turbine and Duct Burner shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. 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. The Permittee shall maintain records of each shipping receipt and certification. [NSR Permit No. 070-0096 Part IV.C]

d. Reporting Requirements

- i. The Permittee shall report the sulfur content of the No. 2 fuel oil burned in the Solar Taurus 60 Turbine and Duct Burner in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit semi-annual reports to the Administrator. Each subsequent semi-annual report shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.48c(j)]

Section III: Applicable Requirements and Compliance Demonstration

3. Allowable Emission Limitations

a. Limitation or Restriction

- i. The Permittee shall not exceed the following emission limits for the Solar Taurus 60 Turbine and Duct Burner, except during periods of start-up, shutdown, and routine maintenance. [NSR Permit No. 070-0096 Part V]

Turbine:

Criteria	Natural Gas	No. 2 Oil	
<u>Pollutants</u>	<u>lb/MMBTU</u>	<u>lb/MMBTU</u>	
TSP	0.014	0.078	
PM-10	0.014	0.078	
SOx	0.001	0.304	
NOx	0.090 (25 ppm)*	0.163 (42 ppm)*	* (corrected to 15% O ₂)
VOC	0.030	0.008	
CO	0.037	0.090	

Turbine & Duct Burner (Duct burner cannot run independently):

Criteria	Natural Gas	No. 2 Oil
<u>Pollutants</u>	<u>lb/MMBTU</u>	<u>lb/MMBTU</u>
TSP	0.010	0.060
PM-10	0.010	0.060
SOx	0.001	0.312
NOx	0.100	0.150
VOC	0.035	0.038
CO	0.168	0.290

Maximum Total Annual Emissions Allowed:

Criteria	lb/hr	tpy
<u>Pollutants</u>	<u>lb/hr</u>	<u>tpy</u>
TSP	5.90	17.54
PM-10	5.90	17.54
SOx	30.70	31.33
NOx	14.76	38.47
VOC	3.74	12.09
CO	28.54	57.20

b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with the emission rates in Part D.3.a.i of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the emission calculations for the Solar Taurus 60 Turbine and Duct Burner using fuel usage and emission factors from the following sources [RCSA §22a-174-4(d)(1)]:
- (A) Manufacturer's data; and
 - (B) Stack test results. Most recent stack test data for NOx.

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d. Reporting Requirements

- i. The Permittee shall report the actual annual emissions from the Solar Taurus 60 Turbine and Duct Burner in the annual emission statement. [RCSA §22a-174-4(d)(1)]

4. Water to Fuel Ratio

a. Limitation or Restriction

- i. The water-to-fuel ratio operating range is limited to 0.80 to 1.60 lb water/lb fuel. The averaging time is a one-hour block average. [NSR Permit No. 070-0096 Part III]

b. Monitoring Requirements

- i. The Permittee shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within ± 5.0 percent and shall be approved by the Administrator. [40 CFR §60.334(a)]

c. Record Keeping Requirements

- i. The Permittee shall record the ratio of water to fuel being fired in the turbine. [40 CFR §60.334(a)]

d. Reporting Requirements

- i. The Permittee shall submit an excess emissions report for any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with 40 CFR §60.332 by the performance test required in 40 CFR §60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and the graphs or figures developed under 40 CFR §60.335(a). [40 CFR §60.334(c)(1)]

5. NO_x

a. Limitation or Restriction

- i. The Permittee shall not exceed the NO_x emissions limit of 0.090 lb/MMBTU and 25 ppmvd @15% O₂ when burning natural gas and 0.163 lb/MMBTU and 42 ppmvd @15% O₂ when burning No. 2 oil for the Solar Taurus 60 Turbine. [NSR Permit No. 070-0096 Part V]
- ii. The Permittee shall not exceed the NO_x emissions limit of 0.100 lb/MMBTU when burning natural gas and 0.150 lb/MMBTU when burning No. 2 oil for the Solar Taurus 60 Turbine and Duct Burner operating together. [NSR Permit No. 070-0096 Part V]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of the Solar Taurus 60 Turbine and Duct Burner to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. Compliance with the emission limitations of RCSA §22a-174-22 shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period. Any analysis of nitrogen content conducted as part of such emission testing shall be in accordance with Method D-3228 of the American Society for the Testing of Materials. If the

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commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]

- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60, Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity for a fuel-burning source. [RCSA §22a-174-22(k)(2)]

c. Record Keeping Requirements

- i. The Permittee shall keep the following records [RCSA §22a-174-22(l)(1)(D), (E), (H) & (J)]:
 - (A) Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
 - (C) Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(l)(5)]

d. Reporting Requirements

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(l)(2)]
- ii. On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NO_x emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(l)(6)] The Permittee shall comply with this requirement by reporting NO_x emissions for this emission unit in the annual emissions statement.

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7. CAM Requirements for NOx using Water Injection

a. Limitation or Restriction

- i. The water-to-fuel ratio shall be between 0.80 and 1.60 lb water/lb fuel when the Solar Taurus 60 Turbine is operating. An excursion is when the water-to-fuel ratio is less than 0.80 or greater than 1.60 lb water/lb fuel. [40 CFR §64.3(a)(2)]

b. Monitoring Requirements

- i. The water-to-fuel ratio shall be measured continuously using a continuous monitoring system which shall be accurate to within ± 5.0 percent. [40 CFR §64.3(b)(1)]
- ii. All meters and transmitters shall be inspected and calibrated in accordance with manufacturer's instructions. The water injection DP transmitter and the gas pressure meter shall be calibrated every five years. The gas and fuel oil meters do not require calibration. [40 CFR §64.3(b)(3)]
- iii. In the event that an excursion occurs, the Permittee shall make a record of the excursion, investigate to determine the cause of the excursion, take corrective action to remedy the excursion, and determine and take preventative action against the excursion to prevent reoccurrence. [40 CFR §64.3(b)(4)]

c. Record Keeping Requirements

- i. Instantaneous readings shall be collected every 30 seconds by the electronic data acquisition system. [40 CFR §64.3(b)(4)(iii)]
- ii. Hourly averages of four 15-minute temperature readings shall be calculated for compliance purposes. [40 CFR §64.3(b)(4)(iii)]
- iii. The Permittee shall maintain for a period of five years records of inspections and corrective actions taken in response to excursions. [40 CFR §64.3(b)(4)(iii)]

d. Reporting Requirements

- i. The Permittee shall, as part of the semi-annual monitoring report and/or annual compliance certification, submit a report semiannually of the number, duration, cause of any excursion and the corrective action taken. [40 CFR §64.9(a)]

D. EMISSIONS UNIT 8 (EU-8) – Waukesha Generator

1. Fuel Usage

a. Limitation or Restriction

- i. The Waukesha Generator is limited to a maximum fuel consumption of 357,000 gallons of No. 2 fuel oil per year. [NSR Permit No. 070-0061]

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b. Monitoring Requirements

- i. The Permittee shall monitor the fuel usage of the Waukesha Generator using either the annual hours of operation and the maximum hourly fuel rating for the Waukesha Generator or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the annual fuel usage of the Waukesha Generator. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel usage of the Waukesha Generator in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Hours of Operation

a. Limitation or Restriction

There are no operating limitations on the annual hours of operation for the Waukesha Generator, with the exception of those detailed in Section III.D.6.a.i. of this Title V permit. However, there are monitoring, record keeping and reporting requirements.

b. Monitoring Requirements

- i. The Permittee shall monitor the annual hours of operation for the Waukesha Generator using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the annual hours of operation for the Waukesha Generator. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual hours of operation for the Waukesha Generator in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Sulfur Content

a. Limitation or Restriction

The maximum sulfur content of No. 2 oil for the Waukesha Generator is 0.5% (by weight, dry basis). [NSR Permit No. 070-0061]

Note that Section V of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of No. 2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a]

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b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the fuel oil using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of the No. 2 fuel oil burned in the Waukesha Generator. Records for a fuel certification or contract shall include the following information, as appropriate: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report the sulfur content of the No. 2 fuel oil burned in the Waukesha Generator in the annual emission statement. [RCSA §22a-174-4(d)(1)]

4. Allowable Emissions Limitations

a. Limitation or Restriction

The Permittee shall not exceed the following emission limits for the Waukesha Generator [NSR Permit No. 070-0061]:

Criteria <u>Pollutants</u>	<u>tpy</u>
TSP	6.5
SO _x	12.0
NO _x	14.9

b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with the emission rates in Part III.D.4.a.i of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the emission calculations for the Waukesha Generator using fuel usage and emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, Section 3.3 Gasoline and Diesel Industrial Engines, Tables 3.3-1 & 3.3-2, 10/96. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report actual annual emissions from the Waukesha Generator in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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5. NO_x

a. *Limitation or Restriction*

The Permittee shall meet the nitrogen oxide emission limitation for the Waukesha Generator of 8 gm/bk hp-hr when firing No. 2 oil. [RCSA §22a-174-22(e)(Table 22-1)]

b. *Monitoring Requirements*

- i. The Permittee shall conduct an emission test of the Waukesha Generator to demonstrate compliance with RCSA §22a-174-22. Each such emission test shall be conducted in accordance with RCSA §22a-174-5. Compliance with the emission limitations of RCSA §22a-174-22 shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period. Any analysis of nitrogen content conducted as part of such emission testing shall be in accordance with Method D-3228 of the American Society for the Testing of Materials. If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of a stationary source, the commissioner may approve testing where compliance with the emission limitations of this section shall be determined based on the average of four 15-minute tests, each performed over a consecutive 15-minute period. Any owner or operator of a stationary source who has not installed and operated a continuous emissions monitor at such source shall conduct emission testing once every five years from the date of the previous test or five years from the date the previous test was due, whichever is earlier. [RCSA §22a-174-22(k)(1)]
- ii. The Permittee shall demonstrate compliance with emission limitations of RCSA §22a-174-22 using sampling and analytical procedures approved under 40 CFR 60, Appendix A, or under procedures in RCSA §22a-174-5(d). Sampling shall be conducted when the source is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above ninety percent (90%) of maximum capacity for a fuel-burning source. [RCSA §22a-174-22(k)(2)]

c. *Record Keeping Requirements*

- i. The Permittee shall keep the following records [RCSA §22a-174-22(l)(1)(D), (E), (H) & (J)]:
 - (A) Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22;
 - (C) Records of the dates, times, and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing; and
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(l)(5)]

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d. Reporting Requirements

- i. Within 30 days of the completion of emission tests conducted under the requirements of RCSA §22a-174-22(k)(1), the Permittee shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22(l)(2)]

6. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall operate the Waukesha Generator according to the following requirements. If the Permittee does not operate the engine in accordance with the following requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart ZZZZ and must meet all of the requirements for non-emergency engines. [40 CFR §63.6640(f)]:
 - (A) There is no time limit on the use of the Waukesha Generator in emergency situations.
 - (B) The Permittee may operate the Waukesha Generator for a maximum of 100 hours per calendar year for any combination of reasons listed in Section III.D.6.i.(B)(1) of this Title V permit. Any operation for non-emergency situations as allowed by Section III.D.6.i.(C) of this Title V permit is included as part of the 100 hours allowed by this paragraph.
 - (1) Each emergency engine 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 owner or operator 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
 - (C) The Waukesha Generator 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. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]

b. Recordkeeping Requirements

- i. The Permittee shall make and keep records of the hours of operation for the Waukesha Generator. The Permittee shall document how many hours are spent for emergency operations, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall report the total annual hours of operation for the Waukesha Generator in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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E. GROUPED EMISSION UNIT 3 (GEU-3) – Miscellaneous Emergency Engines Subject to RCESA §22a-174-3b(e)

1. Hours of Operation

a. Limitation or Restriction

The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCESA §22a-174-3b(e)(2)(C)]

b. Monitoring Requirements

i. The Permittee shall monitor hours of operation of each emergency engine using an hour meter. [RCESA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall make and maintain records of the hours of operation of each emergency engine for each month and 12 month rolling aggregate. [RCESA §22a-174-3b(e)(4)]

d. Reporting Requirements

i. The Permittee shall report the total combined annual hours of operation for all emergency engines in GEU-3 in the annual emission statement. [RCESA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed the sulfur content of motor vehicle diesel fuel where ‘motor vehicle diesel fuel’ is defined as in RCESA §22a-174-42. [RCESA §22a-174-3b(e)(2)(D)] Motor vehicle diesel fuel means on-road diesel fuel that meets the sulfur limits in 40 CFR §§80.29, 80.500(a) and 80.520(a) and (b). [RCESA §22a-174-42(a)]

b. Monitoring Requirements

i. The Permittee shall monitor the sulfur content of the diesel fuel oil using fuel certifications or fuel contracts. [RCESA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines [RCESA §22a-174-3b(h)]:

(A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;

(B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or

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- (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

- d. *Reporting Requirements*

- i. The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Fuel Usage

- a. *Limitation or Restriction*

There are no operating limitations on fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

- b. *Monitoring Requirements*

- i. The Permittee shall calculate the annual fuel usage of each emergency engine, using the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. *Record Keeping Requirements*

- i. The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

- d. *Reporting Requirements*

- i. The Permittee shall report annual fuel usage of the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

4. Particulate Matter

- a. *Limitation or Restriction*

- i. **(FEDERALLY ENFORCEABLE SIP REQUIREMENT)** The Permittee shall not cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in Table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per MMBTU of heat input. [Regulation approved by EPA on 9-23-1982, RCSA §22a-174-18(d)(1)]
 - ii. **(STATE-ONLY REQUIREMENT)** The Permittee of any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [Current Regulation submitted to EPA on 12-1-2004, RCSA §22a-174-18(j)(6)]

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b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with Part III.E.4.a.i. of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

F. GROUPED EMISSION UNIT 4 (GEU-4) – Miscellaneous Emergency Engines Subject to RCSA §22a-174-3b(e) and RCSA §22a-174-22

1. Hours of Operation

a. Limitation or Restriction

The Permittee shall not cause or allow the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring Requirements

- i. The Permittee shall monitor hours of operation of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the hours of operation of each emergency engine for each month and 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]

d. Reporting Requirements

- i. The Permittee shall report the total combined annual hours of operation for all emergency engines in GEU-4 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The Permittee shall not cause or allow the diesel fired emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed a sulfur content of 0.0015%. [RCSA §22a-174-3b(e)(2)(D)]

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b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the diesel fuel oil using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines [RCSA §22a-174-3b(h)]:
 - (A) A fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

d. Reporting Requirements

- i. The Permittee shall report the sulfur content for the fuel burned in the diesel fired emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Fuel Usage

a. Limitation or Restriction

There are no operating limitations on fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

b. Monitoring Requirements

- i. The Permittee shall calculate the annual fuel usage of each emergency engine, using the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel usage of the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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4. Particulate Matter

a. Limitation or Restriction

- i. **(FEDERALLY ENFORCEABLE SIP REQUIREMENT)** The Permittee shall not cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in Table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per MMBTU of heat input. [Regulation approved by EPA on 9-23-1982, RCSA §22a-174-18(d)(1)]
- ii. **(STATE-ONLY REQUIREMENT)** The Permittee of any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [Current Regulation submitted to EPA on 12-1-2004, RCSA §22a-174-18(j)(6)]

b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with Part F.4.a.i. of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records to demonstrate compliance with the particulate matter emission standard for the emergency engines. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall make records of particulate matter emissions for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

5. NO_x

a. Limitation or Restriction

- i. RCSA §22a-174-22(d) through (k), inclusive, shall not apply to and emergency engine provided, on or after May 1, 1997, the operation of an emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups,” “unhealthy for sensitive groups,” “unhealthy,” or “very unhealthy” is expressly prohibited unless [RCSA §22a-174-22(b)(3)]:
 - (A) Such engine is exempt from complying with RCSA §22a-174-22 pursuant to subsection RCSA §22a-174-22(c), or
 - (B) Such operation of the engine is allowed by permit or order of the commissioner, because the engine is unattended and the testing is automated and cannot be modified from a remote location.

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b. Monitoring Requirements

- i. The Permittee shall make emissions calculations to ensure compliance with Part F.5.a. of this permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep the following records [RCSA §22a-174-22(l)(1)(A), (D), (E) & (J)]:
 - (A) Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use;
 - (B) Records of all tune-ups, repairs, replacement of parts and other maintenance;
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22; and
 - (D) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.
- ii. The Permittee shall retain all records and reports produced pursuant to the requirements of RCSA §22a-174-22 for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the source, unless the commissioner approves in writing the use of another location in the State. [RCSA §22a-174-22(l)(5)]

d. Reporting Requirements

- i. On or before April 15 of each year, the Permittee shall submit a report on NO_x emissions from such source, on a form provided by the commissioner. [RCSA §22a-174-22(l)(6)] The Permittee shall comply with this requirement by reporting NO_x emissions for these emission units in the annual emissions statement.

G. GROUPED EMISSION UNIT 5 (GEU-5) – Miscellaneous Emergency Engines

1. Hours of Operation

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the hours of operation of the Miscellaneous Emergency Engines.

b. Monitoring Requirements

- i. The Permittee shall monitor the hours of operation of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the annual hours of operation of each emergency engine. [RCSA §22a-174-4(d)(1)]

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d. Reporting Requirements

- i. The Permittee shall report the total combined annual hours of operation for all emergency engines in GEU-5 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)]

Note that Section V of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of No. 2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a]

b. Monitoring Requirements

- i. The Permittee shall monitor the sulfur content of the fuel using fuel certifications or fuel contracts. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines [RCSA §22a-174-4(d)(1)]:
 - (A) A fuel certification for each delivery of nongaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment.

d. Reporting Requirements

- i. The Permittee shall report the sulfur content of the fuel burned in the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Fuel Usage

a. Limitation or Restriction

There are no operating limitations on fuel usage for the emergency engines. However, there are monitoring, record keeping and reporting requirements.

b. Monitoring Requirements

- i. The Permittee shall calculate the annual fuel usage of each emergency engine, using the annual hours of operation and the maximum hourly fuel rating for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)]

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c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual fuel usage of each emergency engine. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel usage of the emergency engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

4. Special Requirements

a. Limitation or Restriction

- i. In order to limit the potential and actual emissions from the premises, the following conditions must be met [NSR Permit No. 070-0279 Part VII.C]:
 - (A) EU-368 – Generac Model 4.5DTA SD100 Emergency Generator (100 kW, Maximum Fuel Firing Rate 7.7 gal/hr): Generator shall not be operated more than 300 hours per year.
 - (B) EU-392 – Kohler Model 15ROY/ROZ Emergency Generator (15 kW, Maximum Fuel Firing Rate 1.4 gal/hr): Generator shall not be operated more than 300 hours per year.
 - (C) EU-393 – Kohler Model 15ROY/ROZ Emergency Generator (15 kW, Maximum Fuel Firing Rate 1.4 gal/hr): Generator shall not be operated more than 300 hours per year.
 - (D) EU-384 - Cummins Model DSHAC-1838029 Emergency Generator (200 kW, Maximum Fuel Firing Rate 16.4 gal/hr): Generator shall not be operated more than 300 hours per year.
 - (E) EU-272 – Cummins Model DGDA-5770322 Emergency Generator (80 kW, Maximum Fuel Firing Rate 6.3 gal/hr): Generator shall not be operated more than 300 hours per year.
 - (F) EU-273 – Cummins Model DGCG Emergency Generator (80 kW, Maximum Fuel Firing Rate 6.3 gal/hr): Generator shall not be operated more than 300 hours per year.
- ii. In order to limit the potential and actual emissions from the premises, the following conditions must be met [NSR Permit No. 070-0283 Part VII.C]:
 - (A) EU-369 – Galley Emergency Generator, Building 446: Operations to be limited to no more than 300 hours per year.

b. Monitoring Requirements

- i. The Permittee shall continuously monitor the monthly and consecutive 12 month hours of operation for each of the generator engines listed in Part G.5.a. of this permit. [NSR Permit No. 070-0279 Part VII.D. and NSR Permit No. 070-0283 Part VII.D]

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c. Record Keeping Requirements

- i. The Permittee shall record the monthly and consecutive 12 month hours of operation for each of the generator engines listed in Part G.5.a. of this permit. The consecutive 12 month hours of operation shall be determined by adding the current month's hours of operation to that of the previous 11 months. The Permittee shall make these calculations monthly. [NSR Permit No. 070-0279 Part VII.D. and NSR Permit No. 070-0283 Part VII.D]

d. Reporting Requirements

- i. The Permittee shall make records of annual hours of operation for each emergency engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

H. Engines Subject to NSPS Subpart III including engines in:

GROUPED EMISSION UNIT 3 (GEU-3) – Miscellaneous Emergency Engines Subject to RCSA §22a-174-3b(e),

GROUPED EMISSION UNIT 4 (GEU-4) – Miscellaneous Emergency Engines Subject to RCSA §22a-174-3b(e) and RCSA §22a-174-22, and

GROUPED EMISSION UNIT 5 (GEU-5) – Miscellaneous Emergency Engines

1. Emission Limitations

a. Limitation or Restriction

- i. The following emission units shall comply with the emissions limitations in 40 CFR 60 Subpart III, Table 1: EU-272 and EU-273. [40 CFR §63.4205(a)]
- ii. The following emission units shall comply with the applicable emission limitations in 40 CFR §89.112, 40 CFR §89.113, 40 CFR §1039.101, 40 CFR §1039.102, 40 CFR §1039.104, 40 CFR §1039.105, 40 CFR §1039.107, and 40 CFR §1039.115, as applicable: EU-368, EU-369, EU-384, EU-392, EU-393, EU-397, EU-399, EU-415, EU-424, EU-455, and any units installed during the permitted period. [40 CFR §60.4202(a)]

b. Recordkeeping Requirements

- i. The Permittee shall comply with the emission limitations in Section III.H.1.a.i. of this Title V permit according to one of the following [40 CFR §60.4211(b)]:
 - (A) Purchasing an engine certified according to 40 CFR 89 or 40 CFR 94, as applicable for the same year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. The Permittee shall make and keep records of such purchase and certification. [RCSA §22a-174-4(d)(1)]
 - (B) Keeping records of performance test results for each pollutant conducted on a similar engine. The test must have been conducted using the methods in 40 CFR §60.4213.
 - (C) Keeping records of engine manufacturer data indicating compliance with the standards.
 - (D) Keeping records of control device vendor data indicating compliance with the standards.

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- (E) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR §60.4212, as applicable. The Permittee shall make and keep records of such performance test. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall comply with the emission limitations in Section III.H.1.a.ii. of this Title V permit by purchasing an engine certified to those emission standards, as applicable for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission related standards. The Permittee shall make and keep records of such purchase, installation, and configuration. [40 CFR §60.4211(c) and RCSA §22a-174-4(d)(1)]
- iii. The Permittee shall keep the following records for engines EU-272 and EU-273 [40 CFR §60.4214(a)]:
 - (A) All notifications required by 40 CFR 60 Subpart III and all documentation supporting any notification.
 - (B) All maintenance conducted on the engine.
 - (C) If the engine is a certified engine, documentation from the manufacturer of such certification.
 - (D) If the engine is not a certified engine, documentation that the engine meets the emission standards in Sections III.H.1.a.i. & ii. of this Title V Permit.

c. Reporting Requirements

- i. The Permittee shall keep the records required by this section for the life of each engine and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

2. Hours of Operation

a. Limitation or Restriction

For each emergency engine subject to Section III.H. of this Title V Permit, the Permittee shall comply with the following requirements [40 CFR §60.4211(f)]:

- i. Unless otherwise restricted, each emergency engine may be operated under the following situations for a maximum of 100 hours per calendar year:
 - (A) Each emergency engine 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.
 - (B) Each emergency engine may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standards EOP-002-3, Capacity and Energy Emergencies, 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) Each emergency engine may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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- ii. Unless otherwise restricted, each emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation shall be counted as part of the 100 hours of operation per calendar year in Section III.H.2.a.i. of this Title V Permit. Except as provided in the following, the 50 hours of operation per calendar year may not 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. The 50 hours of operation per calendar 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:
 - (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (B) 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.
 - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission, or local standards or guidelines.
 - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (E) The owner or operator 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 engine owner or operator.

b. Monitoring Requirements

- i. The Permittee shall monitor the total hours of operation per calendar year of each emergency engine using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall monitor the total hours of operation of each engine used for emergency purposes per calendar year. [RCSA §22a-174-33(j)(1)(K)(ii)]
- iii. The Permittee shall monitor the total hours of operation of each engine used for non-emergency purposes per calendar year. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and maintain records of the total hours of operation, the hours of operation for emergency purposes, and the hours of operation for non-emergency purposes for each emergency engine per calendar year. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report the total combined annual hours of operation for all emergency engines in each GEU in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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3. Work Practice Requirements

a. Limitation or Restriction

- i. The Permittee shall use only diesel fuel that meets the requirements of 40 CFR §80.510(b) for non-road diesel fuel in all engines subject to 40 CFR 60 Subpart IIII. [40 CFR §60.4207(b)]
- ii. The Permittee shall operate and maintain the engines and any control devices according to any manufacturer's emission-related written instructions and change only those emission related settings that are permitted by the manufacturer. [40 CFR §60.4211(a)(1)&(2)]

b. Recordkeeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in the diesel fired emergency engines [RCSA §22a-174-4(d)(1)]:
 - (A) A fuel certification for each delivery of non-gaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of non-gaseous fuel as a condition of each shipment.
- ii. The Permittee shall make and keep records of all maintenance performed on each engine and any emission related settings that have been changed. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall keep the records required by this section for a period of 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

I. Engines Subject to NESHAP Subpart ZZZZ including engines in:

GROUPED EMISSION UNIT 3 (GEU-3) – Miscellaneous Emergency Engines Subject to RCSA §22a-174-3b(e),

GROUPED EMISSION UNIT 4 (GEU-4) – Miscellaneous Emergency Engines Subject to RCSA §22a-174-3b(e) and RCSA §22a-174-22, and

GROUPED EMISSION UNIT 5 (GEU-5) – Miscellaneous Emergency Engines

1. Work Practice Standards

a. Limitation or Restriction

The following emissions units shall comply with this section of the Title V permit: EU-46, EU-47, EU-49, EU-106, EU- 109, EU-157, EU-158, EU-168, EU-219, EU-221, EU-222, EU-223, EU-224, EU-225, EU-226, EU-227, EU-228, EU-233, EU-234, EU-246, and EU-254.

- i. The Permittee shall change the oil and filter on each emergency engine every 500 hours of operation or annually, whichever comes first. [40 CFR §63.6602, Table 2c(1)(a) and Table 2c(6)(a)]

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- ii. The Permittee shall inspect the air cleaner on each emergency engine (excluding EU-46) every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602, Table 2c(1)(b)]
- iii. The Permittee shall inspect spark plugs on EU-46 every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602, Table 2c(6)(b)]
- iv. The Permittee shall inspect all hoses and belts on each emergency engine every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6602, Table 2c(1)(c) and Table 2c(6)(c)]
- v. Excluding EU-46, the Permittee shall minimize each engine's time spent at idle and minimize each engine's startup time at startup to a period needed for appropriate and safe loading of each engine, not to exceed 30 minutes, after which time the non-startup emissions limitations apply. [40 CFR §63.6602, Table 2c(1)]
- vi. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Sections III.I.1.a.i.-v. of this Title V permit, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. [40 CFR §63.6602, Table 2c, Footnote 1]
- vii. The Permittee shall, at all times, operate and maintain each emergency engine, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR §63.6605(b)]
- viii. The Permittee shall operate and maintain each existing emergency engine according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR §63.6625(e)]
- ix. Excluding EU-46, the Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Section III.I.1.a.i. of this Title V permit. The oil analysis must be performed every 500 hours of operation or annually, whichever comes first. The analysis must, at a minimum, analyze the following three parameters: Total Base Number, viscosity, and percent water content. Upon analysis, if the Total Base Number is less than 30 percent of the Total Base Number of the oil when new, the viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new, or the percent water content (by volume) is greater than 0.5, then the Permittee shall change the oil within two business days of receiving the results of the analysis. If the results of the oil analysis indicate that these thresholds are not exceeded, the Permittee is not required to change the oil. If any emergency engine is not in operation when the results of the oil analysis are received, the Permittee shall change the oil within two business days or before commencing operation, whichever is later. This analysis program must be part of the maintenance plan for the emergency engines. [40 CFR §63.6625(i)]

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- x. The Permittee shall operate each emergency engine according to the following requirements. If the Permittee does not operate each engine in accordance with the following requirements, the engine will not be considered an emergency engine under 40 CFR 60 Subpart ZZZZ and must meet all of the requirements for non-emergency engines. [40 CFR §63.6640(f)]:
- (A) Unless otherwise restricted, the Permittee may operate each emergency engine for any combination of purposes specified in Sections III.I.1.a.x.(B)(1), (2) or (3) of this Title V permit for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section III.I.1.x.(C) of this Title V permit is included as part of the 100 hours allowed by this paragraph. The 100 hours per year shall be included in the 300 hour per year operating restriction of RCSA §22a-174-3b(e).
- (1) Each emergency engine 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 owner or operator 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 owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]
- (2) Emergency stationary RICE 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 §63.14), 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. [40 CFR §63.6640(f)(2)(ii)]
- (3) Each emergency engine may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [40 CFR §63.6640(f)(2)(iii)]
- (B) Each emergency engine 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 Section III.I.1.ix.(A) of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR §63.6640(f)(3)]
- b. *Monitoring Requirements*
- i. Excluding EU-224, the Permittee shall maintain a non-resettable hour meter on each emergency engine. [40 CFR §63.6625(f)]

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c. Recordkeeping Requirements

- i. The Permittee shall make and keep records of the parameters that are analyzed as part of the oil analysis program, the results of any such analysis, and the oil changes for each emergency engine. [40 CFR §63.6625(i)]
- ii. The Permittee shall keep a copy of each notification and report submitted to comply with 40 CFR 63 Subpart ZZZZ, including all documentation supporting any Initial Notification of Compliance Status submitted. [40 CFR §63.6655(a)(1)]
- iii. The Permittee shall make and keep records of the occurrence and duration of any malfunction in operation. [40 CFR §63.6655(a)(2)]
- iv. The Permittee shall make and keep records of any required performance tests and performance evaluations. [40 CFR 63.6655(a)(3)]
- v. The Permittee shall make and keep records of actions taken during periods of malfunction to minimize emissions in accordance with Section III.I.1.a.vi. of this Title V permit, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR §63.6655(a)(5)]
- vi. The Permittee shall make and keep records to show continuous compliance with each applicable work practice standard in 40 CFR 63 Subpart ZZZZ, Table 6. [40 CFR §63.6655(d)]
- vii. The Permittee shall make and keep records of the maintenance conducted on each emergency engine in order to demonstrate that the engine was operated and maintained according to the Permittee's maintenance plan. [40 CFR §63.6655(e)]
- viii. The Permittee shall make and keep records of the hours of operation that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operations, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is operated for the purpose of a deviation in voltage or frequency, the Permittee shall make and keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for this purpose. [40 CFR §63.6655(f)]

d. Reporting Requirements

- i. The Permittee shall report to the Administrator each instance in which a deviation from a work practice standard in Section III.I.1.a. of this Title V permit occurs. [40 CFR §63.6640(b)]
- ii. The Permittee shall report any failure to perform the engine's work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR §63.6602, Table 2c, Footnote 1]
- iii. For each deviation from a work practice standard in Section III.I.1.a. of this Title V permit, the Compliance report must contain the following information [40 CFR §63.6650(d)]:
 - (A) The Company name and address
 - (B) A statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.

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- (C) Date of report and beginning and ending dates of the reporting period.
- (D) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the Permittee during a malfunction to minimize emissions in accordance with Section III.I.1.a.vii. of this Title V permit, including actions taken to correct a malfunction.
- (E) The total operating time of the emergency engine at which the deviation occurred during the reporting period.
- (F) Information on the number duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.

J. GROUPED EMISSION UNIT 7 (GEU-7) – Miscellaneous Solvent Cleaners

1. Solvent Usage

a. Limitation or Restriction

- i. The Permittee shall meet the following requirements for any cold cleaning unit with an internal volume greater than one liter and using solvents containing greater than five percent VOCs by weight, except as provided in RCSA §22a-174-20(1)(6), (7) or (8) [RCSA §22a-174-20(1)(3)(A), (B), (I), (K) & (L)]:
 - (A) Equip the cleaning device with a cover that is easily operated with one hand. Unless it is exempted per RCSA §22a-174-20(1)(6).
 - (B) Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system. Unless it is exempted per RCSA §22a-174-20(1)(6).
 - (C) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements.
 - (D) On or after May 1, 2008, use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. Unless it is exempted per RCSA §22a-174-20(1)(8).
 - (E) Shall not clean sponges, fabric, wood, leather, paper and other absorbent material in a cold cleaning machine.

b. Monitoring Requirements

- i. The Permittee shall calculate the amount of solvent added to the unit on a monthly basis using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

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c. Record Keeping Requirements

- i. The Permittee shall maintain and keep the following records for a minimum of five years after such record is made [RCSA §22a-174-20(1)(3)(J)]:
 - (A) The type of solvent used, including a description of the solvent and the solvent name,
 - (B) The vapor pressure of the solvent in mmHg measured at 20 degrees Celsius (68 degrees Fahrenheit),
 - (C) The percent VOC content by weight, and
 - (D) The amount of solvent added to each unit on a monthly basis.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the cold cleaning units in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall meet the following required work practices for any cold cleaning unit as applicable. [RCSA §22a-174-20 (1) (3)]:
 - (A) Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(1)(3)(C)]
 - (B) Close the cover if parts are not being handled in the cleaner for two minutes or more, or if the device is not in use. Except if it is exempt per RCSA §22a-174-20(1)(6). [RCSA §22a-174-20(1)(3)(D)]
 - (C) Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA §22a-174-20(1)(3)(E)]
 - (D) If a degreasing solvent spray is used: (i) Supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray), (ii) maintain a solvent spray pressure that does not exceed ten pounds per square inch as measured at the pump outlet, and (iii) perform spraying within the confines of the cold cleaning unit. Except if it is exempt per RCSA §22a-174-20(1)(7). [RCSA §22a-174-20(1)(3)(F)]
 - (E) Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip. Except if it is exempt per RCSA §22a-174-20(1)(7). [RCSA §22a-174-20(1)(3)(G)]

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(F) Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling. [RCSA §22a-174-20(l)(3)(H)]

b. Record Keeping Requirements

i. The Permittee shall make and keep records demonstrating conformance to the requirements of Parts III.J.2.a.i.(A)-(F) of this Title V permit. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

i. The Permittee shall keep the records required by this section for a period of 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

K. EMISSIONS UNIT 86 (EU-86) – JBI Paint Booth for Wood Products

1. Coating and Solvent Usage

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the coating and solvent usage for the JBI paint booth.

b. Monitoring Requirements

i. The Permittee shall monitor coating and solvent usage for the paint booth, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the annual coating and solvent usage for the paint booth. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:

(A) Description of the coating including the coating name and the coating density in pounds per gallon;

(B) Volatile organic compound content by weight;

(C) Amount of each coating used in gallons;

(D) Total amount of diluent used for each coating in pounds and in gallons.

d. Reporting Requirements

i. The Permittee shall report annual coating and solvent usage for the paint booth in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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2. VOC Emissions

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the VOC emissions for the JBI paint booth.

b. Monitoring Requirements

- i. The Permittee shall monitor VOC emissions for the paint booth, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual VOC emissions for the paint booth. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:
 - (A) The total annual VOC emissions for each coating, solvent, or diluent; and
 - (B) The total annual VOC emissions for the coating operation.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the paint booth in the annual emission statement. [RCSA §22a-174-4(d)(1)]

L. GROUPED EMISSION UNIT 8 (GEU-8) – Coating Systems for Miscellaneous Metal Parts Subject to RCSA §22a-174-3b(g) and RCSA §22a-174-20(s)

1. Coating and Solvent Usage

a. Limitation or Restriction

- i. The Permittee shall properly maintain equipment and conduct coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter [RCSA §22a-174-3b(g)(1)]:
 - (A) The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied;
 - (B) The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied;
 - (C) Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any 12 month rolling aggregate, exceed 3,000 gallons; and
 - (D) Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements: (1) includes a minimum collection efficiency of 90% and (2) is operated and maintained in good working condition.

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- ii. The Permittee shall achieve the emission limit by the application of low solvent content coating technology for each coating used. [RCSA §22a-174-20(bb)(1)(A)]

b. Monitoring Requirements

- i. The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the following information [RCSA §22a-174-3b(g)(3)]:
 - (A) Records of the type and quantity of coating and solvent used, in gallons, for each month and each 12 month rolling aggregate;
 - (B) Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and
 - (C) If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency.
- ii. The Permittee shall maintain daily records of all coatings and diluents used. Such records shall be kept for each individual machine, operation or coating line. The records must contain the information required below [RCSA §22a-174-20(aa)(1)]:
 - (A) Description of the coating including the coating name and the coating density in pounds per gallon;
 - (B) Volatile organic compound content by weight;
 - (C) Water and exempt volatile organic compound content by weight;
 - (D) Non- volatile organic compound content by volume and by weight;
 - (E) Amount of each coating used in gallons;
 - (F) Total amount of diluent used for each coating in pounds and in gallons.
- iii. The Permittee shall make and keep records of all maintenance performed on the coating systems. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual coating and solvent usage for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall keep the records required by this section for a period of 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

2. VOC Emissions

a. Limitation or Restriction

There are monitoring, record keeping and reporting requirements for the VOC emissions of the coating operations.

b. Monitoring Requirements

- i. The Permittee shall monitor VOC emissions for the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual VOC emissions for the coating operations. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:
 - (A) The total annual VOC emissions for each coating, solvent, or diluent; and
 - (B) The total annual VOC emissions for the coating operation.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]

M. GROUPED EMISSION UNIT 9 (GEU-9) – Coating Systems for Non-Metal Parts Subject to RCSA §22a-174-3b(g) and Ship Building & Repair NESHAP

1. Coating and Solvent Usage

a. Limitation or Restriction

- i. The Permittee shall properly maintain equipment and conduct coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter [RCSA §22a-174-3b(g)(1)]:
 - (A) The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied;
 - (B) The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied;
 - (C) Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any 12 month rolling aggregate, exceed 3,000 gallons; and
 - (D) Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements: (1) includes a minimum collection efficiency of 90% and (2) is operated and maintained in good working condition.

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- ii. No owner or operator of an existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of 40 CFR §63.783. [40 CFR §63.783(a)]
- iii. Each owner or operator of a new or existing affected source shall insure that [40 CFR §63.783(b)]:
 - (A) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
 - (B) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

b. Monitoring Requirements

- i. The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the following information [RCSA §22a-174-3b(g)(3)]:
 - (A) Records of the type and quantity of coating and solvent used, in gallons, for each month and each 12 month rolling aggregate;
 - (B) Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and
 - (C) If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency.
- ii. The owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. The records shall include all the information specified in 40 CFR §63.788(b). [40 CFR §63.788(b)]
- iii. The Permittee shall make and keep records of any maintenance conducted on emission-related components of the coating systems for non-metal parts. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual coating and solvent usage for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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- ii. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR §63.784, each owner or operator of an affected source shall submit a report to the Administrator for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of 40 CFR §63.788, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of 40 CFR §63.788 for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source. [40 CFR §63.788(c)]
- iii. The Permittee shall keep the records required by this section for a period of 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

2. VOC Emissions

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the VOC emissions of the coating systems of non-metal parts.

b. Monitoring Requirements

- i. The Permittee shall monitor VOC emissions for the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual VOC emissions for the coating operations. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:
 - (A) The total annual VOC emissions for each coating, solvent, or diluent; and
 - (B) The total annual VOC emissions for the coating operation.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]

N. GROUPED EMISSION UNIT 10 (GEU-10) – Coating Operations Subject to RCSA §22a-174-20(s) and Consent Order 8049

1. Coating and Solvent Usage

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the coating and solvent usage of the coating operations.

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b. Monitoring Requirements

- i. The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain daily records of all coatings and diluents used. Such records shall be kept for each individual machine, operation or coating line. The records must contain the information required below [RCSA §22a-174-20(aa)(1)]:
 - (A) Description of the coating including the coating name and the coating density in pounds per gallon;
 - (B) Volatile organic compound content by weight;
 - (C) Water and exempt volatile organic compound content by weight;
 - (D) Non- volatile organic compound content by volume and by weight;
 - (E) Amount of each coating used in gallons;
 - (F) Total amount of diluent used for each coating in pounds and in gallons.

d. Reporting Requirements

- i. The Permittee shall report annual coating and solvent usage for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. VOC Emissions

a. Limitation or Restriction

- i. The Permittee shall not allow emissions of VOC from the system to exceed 1,666 pounds in any calendar month. [Consent Order No. 8049 Part B.1.a]
- ii. If during any calendar month the system emits more than 1,666 pounds of VOC, it shall cease from that time forward to be exempt from the emission limitations of Section 22a-174-20(s)(3) of the Regulations. [Consent Order No. 8049 Part B.1.d]

b. Monitoring Requirements

- i. The Permittee shall monitor VOC emissions for the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual VOC emissions for the coating operations. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:

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- (A) The total annual VOC emissions for each coating, solvent, or diluent; and
- (B) The total annual VOC emissions for the coating operation.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall submit the above-described records to the Commissioner within two months of the end of the calendar year during which they were prepared. [Consent Order No. 8049 Part B.1.b.]
- iii. Within ten days of the date the Permittee becomes aware that the system has emitted or is reasonably likely to emit more than 1,666 pounds of VOC in a calendar month, the Permittee shall notify the Commissioner in writing that such exceedence has occurred or is reasonably likely to occur. Upon making such notification, the Permittee shall commence to submit the records described in paragraph B(1)(b) of Consent Order No. 8049 hereinabove to the Commissioner within ten days of the end of each calendar month for which they were prepared. Respondent shall continue making such submittals unless the Commissioner notifies the Permittee in writing that the Permittee may discontinue them. [Consent Order No. 8049 Part B.1.e]

O. GROUPED EMISSION UNIT 11 (GEU-11) – Miscellaneous Coating Subject to the Ship Building & Repair NESHAP

1. Coating and Solvent Usage

a. Limitation or Restriction

- i. No owner or operator of an existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of 40 CFR 63 Subpart II. [40 CFR §63.783(a)]

Table 2 To Subpart II of Part 63. – VOHAP Limits^{abc} for Marine Coatings
[40 CFR Part 63 Subpart II Table 2]

<u>Coating Category</u>	grams/liter coating (minus water & <u>exempt compounds</u>)	grams/liter solids ^d	
		<u>t ≥ 4.5°C</u>	<u>t < 4.5°C^e</u>
General Use	340	571	728
Specialty:			
Air flask	340	571	728
Antenna	530	1,439	
Antifoulant	400	765	971
Heat resistant	420	841	1,069
High-gloss	420	841	1,069
High temperature	500	1,237	1,597
Inorganic zinc high-build	340	571	728
Military exterior	340	571	728
Mist	610	2,235	
Navigational aids	550	1,597	
Nonskid	340	571	728

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Nuclear	420	841	1,069
Organic zinc	360	630	802
Pretreatment wash primer	780	11,095	
Repair and maint. of thermoplastics	550	1,597	
Rubber camouflage	340	571	728
Sealant for thermal spray aluminum	610	2,235	
Special marking	490	1,178	
Specialty interior	340	571	728
Tack coat	610	2,235	
Undersea weapons systems	340	571	728
Weld-through precon. primer	650	2,885	

- a The limits are expressed in two sets of equivalent units. Either set of limits may be used for the compliance procedure described in §63.785(c)(1), but only the limits expressed in units of g/L solids (nonvolatiles) shall be used for the compliance procedures described in §63.785(c)(2) through (4).
 - b VOC (including exempt compounds listed as HAP) shall be used as a surrogate for VOHAP for those compliance procedures described in §63.785(c)(1) through (3).
 - c To convert from g/L to lb/gal, multiply by (3.785 L/gal)(1/453.6 lb/g) or 1/120. For compliance purposes, metric units define the standards.
 - d VOHAP limits expressed in units of mass of VOHAP per volume of solids were derived from the VOHAP limits expressed in units of mass of VOHAP per volume of coating assuming the coatings contain no water or exempt compounds and that the volumes of all components with a coating are additive.
 - e These limits apply during cold-weather time periods, as defined in §63.782. Cold-weather allowances are not given to coatings in categories that permit less than 40 percent volume solids (nonvolatiles). Such coatings are subject to the same limits regardless of weather conditions.
- ii. Each owner or operator of a new or existing affected source shall insure that [40 CFR §63.783(b)]:
- (A) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
 - (B) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

b. *Monitoring Requirements*

- i. The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

- i. The Permittee shall make and keep records of the annual coating and solvent usage for the coating operations. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:
 - (A) Description of the coating including the coating name and the coating density in pounds per gallon;
 - (B) Volatile organic compound content by weight;

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- (C) Amount of each coating used in gallons;
 - (D) Total amount of diluent used for each coating in pounds and in gallons.
 - ii. The owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. The records shall include all the information specified in 40 CFR §63.788(b). [40 CFR §63.788(b)]
- d. Reporting Requirements*
- i. The Permittee shall report annual coating and solvent usage for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]
 - ii. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR §63.784, each owner or operator of an affected source shall submit a report to the Administrator for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of 40 CFR §63.788, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A) of 40 CFR §63.788. If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source. [40 CFR §63.788(c)]

2. VOC Emissions

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the VOC emissions of the coating operations subject to the Shipbuilding and Repair NESHAP.

b. Monitoring Requirements

- i. The Permittee shall monitor VOC emissions for the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the annual VOC emissions for the coating operations. The records shall contain the information required below [RCSA §22a-174-4(d)(1)]:

(A) The total annual VOC emissions for each coating, solvent, or diluent; and

(B) The total annual VOC emissions for the coating operation.

d. Reporting Requirements

- i. The Permittee shall report annual VOC emissions for the coating operations in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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P. EMISSIONS UNIT 131 (EU-131) – Abrasive Blast Booth

1. Quantity of Abrasives Used

a. Limitation or Restriction

The maximum quantity of abrasive used over any consecutive 12 month period for the Abrasive Blast Booth is 2,396,160 pounds per year of steel grit and aluminum oxide. [NSR Permit No. 070-0231 Part I.1 & 2]

b. Monitoring Requirements

- i. The Permittee shall monitor the quantity of abrasive used in the Abrasive Blast Booth, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the monthly and consecutive 12-month quantity of abrasive used in the Abrasive Blast Booth. The consecutive 12-month usage shall be determined by adding the current month's usage to that of the 11 months. The Permittee shall make these calculations monthly. [NSR Permit No. 070-0231 Part IV.1]

d. Reporting Requirements

- i. The Permittee shall report annual abrasive usage for the Abrasive Blast Booth in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Particulate Matter

a. Limitation or Restriction

The Permittee shall not exceed allowable PM/PM-10 emissions from the Abrasive Blast Booth of 0.006 lb/hr and 0.012 tons/year. Demonstration of compliance with the PM/PM-10 emission limit shall be demonstrated by using an emission factor of 0.01 lb of particulate/lb of abrasive and a control efficiency of 99.999%. [NSR Permit No. 070-0231 Part V]

b. Monitoring Requirements

- i. The Permittee shall monitor the PM/PM-10 emissions for the Abrasive Blast Booth through records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the monthly and consecutive 12 month PM/PM-10 emissions for the Abrasive Blast Booth. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

- i. The Permittee shall report annual PM/PM-10 emissions for the Abrasive Blast Booth in the annual emission statement. [RCSA §22a-174-4(d)(1)]

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3. Pressure Drop

a. Limitation or Restriction

The Permittee shall activate the pulse air cleaner prior to reaching a pressure differential of 6.0 in. H₂O across the filter and it shall be activated so as to maintain a pressure differential across the filter between 1 and 6 in. H₂O. [NSR Permit No. 070-0231 Part II.12]

b. Monitoring Requirements

- i. The Permittee shall monitor the pressure drop in inches of H₂O across the filter of the Abrasive Blast Booth at least once per operational shift. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall record the pressure drop in inches of H₂O across the filter of the Abrasive Blast Booth at least once per operational shift. [NSR Permit No. 070-0231 Part IV.3]

d. Reporting Requirements

- i. The Permittee shall make records of the pressure drop in inches of H₂O across the filter of the Abrasive Blast Booth available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

4. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall maintain the filters in accordance with the manufacturer's specifications and shall activate the pulse air cleaner during blasting operations. [NSR Permit No 070-0231 Part II.9]
- ii. The Permittee shall keep the blasting operations at a constant negative pressure. [NSR Permit No 070-0231 Part II.10]
- iii. The Permittee shall install an interlock system such that the blasting cannot operate unless the exhaust system is operating in conformance with this permit.[NSR Permit No 070-0231 Part II.11]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records demonstrating compliance with Parts III.P.4.a.i.-iii. of this Title V permit. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall keep the records required by this section for a period of 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

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Q. GROUPED EMISSION UNIT 81 (GEU-81) – Gasoline Dispensing and 2 Underground Storage Tanks

1. Gasoline Throughput

a. Limitation or Restriction

There are monitoring, record keeping, and reporting requirements for the gasoline throughput of the gasoline dispensing system and two underground storage tanks.

b. Monitoring Requirements

- i. The Permittee shall monitor daily gasoline throughput using a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of the daily throughput for the premises: [RCSA §22a-174-20(aa)(5)(A)]

d. Reporting Requirements

- i. The Permittee shall make records of gasoline throughput for this gasoline dispensing facility available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

2. Stage I Vapor Recovery System

a. Limitation or Restriction

The Permittee shall perform a pressure decay test of the stage I vapor recovery system annually. [CT Public Act No. 13-120]

b. Recordkeeping Requirements

- i. The Permittee shall make and keep records of the date of each annual pressure decay test and the results of such test. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall notify the commissioner at least seven business days prior to a scheduled test on a form prescribed by the commissioner. [CT Public Act No. 13-120]
- ii. The Permittee shall keep records required by Section III.Q.2.b.i. of this Title V permit for a period of no less than 5 years and shall provide them upon request. [RCSA §22a-174-4(d)(1)]

R. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

1. **Permitting Requirements:** The Permittee shall comply with the procedural requirements for new source review and Title V permitting as set forth in RCSA §22a-174-2a.

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2. **Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
3. **Test Methods:** The Permittee shall comply with methods for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
4. **Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
5. **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.
6. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
7. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
8. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
9. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
10. **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.
11. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
12. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
13. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
14. **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.)
15. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
16. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
17. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
18. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).

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19. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
20. **Dispensing of Gasoline/Stage II Vapor Recovery:** The Permittee shall comply with the standards for dispensing of gasoline/Stage II vapor recovery as set forth in RCSA §22a-174-30.
21. **Architectural and Industrial Maintenance Coatings:** The Permittee shall comply with the standards for application of Architectural and Industrial Maintenance Coatings as set forth in RCSA §22a-174-41.
22. **Stationary Gas Turbine NSPS:** The Permittee shall comply with the New Source Performance Standard for Stationary Gas Turbines as set forth in 40 CFR 60, Subpart GG.
23. **General Provisions:** The Permittee shall comply with the Standards of Performance for New Stationary Sources as set forth in 40 CFR 60 Subpart A.
24. **Steam Generating Unit NSPS:** The Permittee shall comply with the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as set forth in 40 CFR 60, Subpart Db.
25. **Steam Generating Unit NSPS:** The Permittee shall comply with the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as set forth in 40 CFR 60, Subpart Dc.
26. **Shipbuilding and Ship Repair NESHAP:** The Permittee shall comply with the National Emissions Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair as set forth in 40 CFR 63, Subpart II.
27. **ICI Boilers and Process Heaters:** The Permittee shall comply with the National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters as set forth in 40 CFR 63 Subpart DDDDD.
28. **Conformity Determinations:** The Permittee shall comply with the procedures for determining conformity as set forth in 40 CFR Part 51 Subpart W.
29. **Radionuclide Emissions NESHAP:** The Permittee shall comply with the National Emissions Standards for Radionuclide Emissions from Federal Facilities as set forth in 40 CFR Part 61 Subpart I using alternate procedures approved by EPA, as documented in a letter to the Department of the Navy from EPA dated October 1, 1997.
30. **Asbestos NESHAP:** The Permittee shall comply with the National Emissions Standard for Asbestos as set forth in 40 CFR Part 61 Subpart M.
31. **Refrigerants:** The Permittee shall comply with the procedures for recycling and emissions reduction as set forth in 40 CFR Part 82 Subpart F (Protection of Stratospheric Ozone).

Section IV: Compliance Schedule

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

Section V: State Enforceable Terms and Conditions

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

State Enforceable Terms and Conditions

- A.** This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C.** 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.
- D.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.

Section VI: Title V Requirements

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

Title V Requirements

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

Any submittal to the Administrator of the Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; EPA Region 1; 5 Post Office Square, Suite 100; Mail Code OEP05-02; Boston, Massachusetts 02109-3912.

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

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

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

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

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

1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or

Section VI: Title V Requirements

Title V Requirements

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

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

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

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

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

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

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

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

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

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;

Section VI: Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This Title V permit shall not be deemed to:

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

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

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

N. PERMIT AVAILABILITY

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

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

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

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

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

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

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

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

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

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parties to this Title V permit.

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

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

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

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

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

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

Section VI: Title V Requirements

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determined that the commissioner failed to act in a timely manner on a permit renewal application.

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

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

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

Y. CREDIBLE EVIDENCE

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

Certification

Print for Compliance Certification or Enforcement

Print for Compliance Certification

Print for Enforcement