



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	104 - 0103 - TV
Client/Sequence/Town/Premises Numbers	0130-010-104-0007
Date Issued	September 10, 2013
Expiration Date	September 10, 2018

Corporation:

Pratt & Whitney, Division of United Technologies Corporation

Premises Location:

Aircraft Road, Middletown, Connecticut 06457

Name of Responsible Official and Title:

L. Renee Welsh, Director of Facilities

All the following attached pages, 2 through 55, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for
Daniel C. Esty
Commissioner

September 10, 2013
Date

TABLE OF CONTENTS

	PAGE
List of Abbreviations/Acronyms	5
Section I. Premises Information/Description	
A. Premises Information.....	7
B. Premises Description.....	7
Section II. Emissions Units Information	
A. Emissions Units Description - Table II.A.....	10
B. Operating Scenario Identification - Table II.B	11
Section III. Applicable Requirements and Compliance Demonstration	
A. Grouped Emissions Units 3	12
B. Emissions Unit 4.....	15
C. Emissions Unit 5.....	16
D. Emissions Unit 6.....	18
E. Emissions Units 4, 5, & 6	19
F. Grouped Emissions Unit 7.....	20
G. Grouped Emissions Units 7 & 8	22
H. Grouped Emissions Unit 9.....	25
I. Emissions Unit 11.....	26
J. Emissions Units 12 & 13	27
J. Emissions Units 11, 12, & 13	29
L. Grouped Emissions Units 17	30
M. Emissions Unit 18.....	37
N. Emissions Units 19	40
O. Premises-Wide General Requirements	45
Section IV. Compliance Schedule - Table IV	48
Section V. State Enforceable Terms and Conditions	49
Section VI. Title V Requirements	
A. Submittals to the Commissioner & Administrator.....	50
B. Certifications [RCSA §22a-174-33(b)].....	50
C. Signatory Responsibility [RCSA §22a-174-2a(a)]	50
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)].....	51
E. Monitoring Reports [RCSA §22a-174-33(o)(1)]	51
F. Premises Records [RCSA §22a-174-33(o)(2)]	51
G. Progress Reports [RCSA §22a-174-33(q)(1)].....	52
H. Compliance Certifications [RCSA §22a-174-33(q)(2)].....	52
I. Permit Deviation Notifications [RCSA §22a-174-33(p)]	52
J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....	52
K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)]	53
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)]	53
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....	53
N. Permit Availability.....	53
O. Severability Clause [RCSA §22a-174-33(j)(1)(R)]	53
P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....	53
Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)]	53
R. Property Rights [RCSA §22a-174-33(j)(1)(W)].....	53

TABLE OF CONTENTS

	PAGE
Section VI. Title V Requirements, continued	
S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)]	54
T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)]	54
U. Information for Notification [RCSA §22a-174-33(r)(2)(A)]	54
V. Transfers [RCSA §22a-174-2a(g)]	54
W. Revocation [RCSA §22a-174-2a(h)]	54
X. Reopening for Cause [RCSA §22a-174-33(s)]	55
Y. Credible Evidence.....	55

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
%	Percent
ASTM	American Society of Testing and Materials
bhp	Brake horsepower
BTU	British Thermal Units
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
DOD	Department of Defense
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
g	Gram
gal	Gallon
GEU	Grouped Emissions Unit
HAP	Hazardous Air Pollutant
HC	Hydrocarbon
HEPA	High Efficiency Particulate Air
HVAC	Heating, Vacuum, Air Conditioning
hr	Hour
ISO	International Organization for Standardization
J	Joule
KW	Kilawatt
lb	Pound
MMBTU	Million British Thermal Unit
Mmcf	Million Cubic Feet
MW	Megawatt
NAICS	North American Industry Classification System
NESHAP	National Emission Standards for Hazardous Air Pollutants
No.	Number
ng	Nanogram
NMHC	Non-Methane Hydrocarbon
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O ₂	Oxygen
P&W	Pratt & Whitney
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns

LIST OF ABBREVIATIONS/ACRONYMS, continued

<i>Abbreviation/Acronym</i>	<i>Description</i>
ppm	Parts per Million
ppmvd	Parts per million, volumetric basis dry
R&D	Research and Development
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
SCR	Selective Catalytic Reduction
SIC	Standard Industrial Classification Code
SO ₂	Sulfur Dioxide
SOS	Standard Operating Scenario
THC	Total Hydrocarbon
TPY	Tons per year
TSP	Total Suspended Particulate
UTC	United Technologies Corporation
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Uninstalled engine manufacturing, assembly and testing
Primary SIC: 3724
NAICS: 336412

Facility Mailing Address: Pratt & Whitney, Division of UTC
Aircraft Road
Middletown, CT 06457

Telephone Number: (860) 344-4962

B. PREMISES DESCRIPTION

The Pratt & Whitney (P&W) Middletown facility engages in manufacturing processes, assembly and testing of experimental and production aircraft engines, ground based gas turbine engines and components, as well as overhaul and repair of these jet engines. Facility operations include processes such as tank lines, welding operations, thermal spray, small ovens, furnaces, washers, heating, ventilating, and air conditioning (HVAC). P&W is a major source for PM, PM-10, SO₂, NO_x, CO, VOC and HAP emissions. P&W is a Title V source located in a serious ozone non-attainment area defined in RCSA §22a-174-1(103).

Powerhouse

Three powerhouse boilers provide steam primarily for HVAC, manufacturing processes and experimental test operations. Two Rentech boilers (GEU-17) were issued permits to construct and operate 104-0140 and 104-0141 on 12/8/2006. Low NO_x burners and flue gas recirculation are used to control NO_x emissions. The Rentech boilers are subject to the New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc). The Cleaver Brooks D-68 boiler (EU-19) was issued permit to construct 104-0036 on 1/14/1985, permit to operate on 10/17/1985 and revised permit on 1/14/2008. All three boilers are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63 Subpart DDDDD).

The Caterpillar Solar Taurus 70 gas turbine (EU-18) was issued permit to construct and operate 104-0142 on 12/8/2006. The turbine drives a 7.5 MW generator that provides electrical power to facility operations. The exhaust passes through a heat recovery steam generator that provides steam for HVAC, manufacturing processes and experimental test operations. Selective Catalytic Reduction (SCR) is used to control NO_x emissions. The turbine is subject to the NSPS for Stationary Combustion Turbines (40 CFR Part 60 Subpart KKKK) and the NESHAP for Stationary Combustion Turbines (40 CFR Part 63 Subpart YYYY).

Engine Testing Operations

Two non-vitiated inlet air heaters (GEU-3) are used in some test programs to preheat the gas turbine inlet air. Inlet air heaters 2 and 3 were issued permits to construct 104-0028 and 104-0029 on 8/24/1977 and revised permits to operate on 4/10/1996. The two air heaters are subject to the NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63 Subpart DDDDD), but are considered limited-use process heaters.

Section I: Premises Information/Description

B. PREMISES DESCRIPTION, continued

An FT-4 industrial drive engine/free turbine unit (EU-4) is used to drive compressors and/or exhausters to support test cell operation. The drive engine was issued permit to construct 104-0027 on 8/24/1977 and revised permit to operate on 4/10/1996.

The testing of GG-8 gas turbine engines (EU-5) was issued permit to construct 104-0062 on 7/7/1989 and a minor modification on 9/23/2002.

The combustion test rig X-960 (EU-6) was issued permit to construct 104-0030 on 8/24/1977 and a minor modification on 10/21/2010.

Test Cells 1-8 (GEU-10) are used to house uninstalled aircraft engines while they are being tested. The eight Test Cells are not required to be registered or permitted.

The FT-4 industrial drive engine (EU-4), the GG-8 gas turbine engine (EU-5) while involved in development testing, and the combustion test rig X-960 (EU-6) are covered by Consent Order No. 8098 for schedule modification.

Emergency Engines

Five diesel fired emergency engines (GEU-7), three Cummins, an Onan, and a Kohler emergency generators, are subject to RCOSA §22a-174-3b(e), RCOSA §22a-174-22, and 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Six other diesel fired emergency engines (GEU-8) are not required to be registered or permitted but are subject to 40 CFR 63, Subpart ZZZZ.

Two Cummins emergency engines (GEU-9) were installed in 2012 and are subject to RCOSA §22a-174-3b(e) and the New Source Performance Standards for Stationary Compression Ignition Engines, 40 CFR 60 Subpart IIII.

Paint Spray Booths

A Binks spray booth (EU-11) was issued permit 104-0073 on 7/15/1994. Particulate emissions are controlled by a waterwall. An ATR spray booth (EU-12) was issued permit 104-0126 on 4/24/2001; another ATR spray booth (EU-13) was issued permit to construct and operate 104-0139 on 12/9/2004. Dry panel filters control particulate emissions. The spray booths are subject to the NESHAP for Aerospace Manufacturing and Rework Facilities (40 CFR Part 63 Subpart GG). However, P&W does not apply any primers or topcoats subject to the Aerospace NESHAP limits as all of the coatings applied qualify either as specialty coatings, R&D coatings or DOD coatings.

Plasma Spray Booths

There are six plasma spray booths (GEU-021) that at the time of installation did not require permits. The plasma spray booths incorporate high efficiency cartridge design dust collectors followed by HEPA filters for particulate matter control. Actual particulate emissions after control are insignificant. However, in the absence of permits making the controls federally enforceable, the plasma spray booths have a combined potential to emit of Title III metal HAPs that makes the facility a major source for HAPs. These plasma spray booths electrodeposit melted metals onto metal substrates. Per 40 CFR §63.741(f), electrodeposition is not covered by the Aerospace NESHAP. In addition, 40 CFR §63.744(c) standards for spray gun cleaning do not apply because the spray guns are not cleaned with solvents.

Section I: Premises Information/Description

B. PREMISES DESCRIPTION, continued

Miscellaneous Cleaning Operations

Miscellaneous cleaning operations subject to the Aerospace Manufacturing and Rework NESHAP include miscellaneous hand wiping, spray gun cleaning and flush cleaning.

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 Units	Emissions Unit Description	Control Unit Description	NSR Permit, Order, Registration or Regulation Number
GEU-3	Non-Vitiated Inlet Air Heaters 2 and 3	None	NSR Permit Nos. 104-0028 and 104-0029
EU-4	FT-4 Gas Turbine Engine	None	NSR Permit No. 104-0027 and Consent Order-8098
EU-5	Testing of GG-8 Gas Turbine Engines	None	NSR Permit No. 104-0062 and Consent Order-8098
EU-6	Combustion Test Rig X-960	None	NSR Permit No. 104-0030 and Consent Order-8098
GEU-7	Emergency engines covered under RCSA §22a-174-3b(e) (5)	None	RCSA §22a-174-3b(e) and 40 CFR 63, Subpart ZZZZ
GEU-8	Emergency Engines - diesel powered (6)	None	40 CFR 63, Subpart ZZZZ
GEU-9	Emergency engines covered under RCSA §22a-174-3b(e) and subject to NSPS Subpart IIII (2)	None	RCSA §22a-174-3b(e), 40 CFR 60, Subpart IIII, and 40 CFR 63, Subpart ZZZZ
EU-11	Binks Model NPB-12-7-TLH Spray Booth	Waterwash	NSR Permit No. 104-0073
EU-12	ATR paint spray booth (BT 541944)	Panel Filter	NSR Permit Nos. 104-0126 and 104-0139
EU-13	ATR paint spray booth (BT 542361)	Panel Filter	
GEU-17	Rentech Boilers 1 & 2	Low NOx burner, Flue Gas Recirculation	NSR Permit Nos. 104-0140 and 104-0141
EU-18	Solar Taurus 70 Gas Turbine	SCR	NSR Permit No. 104-0142
EU-19	Cleaver Brooks D-68 Boiler	None	NSR Permit No. 104-0036
<i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this permit:</i>			
GEU-10	Test Cells 1, 2, 3, 4, 5, 6, 7, & 8	None	None
GEU-21	Plasma Spray Booths (6)	Cartridge collectors, HEPA filters	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 Scenarios	Description of Scenarios
GEU-3	The standard operation of the two inlet air heaters is to preheat the inlet air of engine component test rigs to simulate the actual engine operating condition.
EU-4	The standard operation of the FT-4 industrial drive engines/free turbine unit is to drive a compressor system that provides inlet air to engine component test rigs.
EU-5	The standard operation of the GG-8 stationary gas turbine engines is the conducting of performance evaluation tests.
EU-6	The standard operation of the combustion test rig X-960 is the conducting of performance evaluation tests.
GEU-7, GEU-8, GEU-9	The standard operation of the emergency engines is to provide emergency power (electrical & fire pumps) for operations in the facility or maintenance purposes.
GEU-10	The standard operation of the Test Cells 1 to 8 is to house uninstalled aircraft engines while they are being tested.
EU-11, EU-12 & EU-13	The standard operation of the spray booths is to apply specialty coatings, R&D coatings and DOD coatings to uninstalled engine parts, fixtures, parts and products.
GEU-17 & EU-19	The standard operation of the three boilers is to supply steam, which is used primarily for HVAC, manufacturing processes and experimental test.
EU-18	The standard operation of the Solar Taurus 70 gas turbine is to power an electrical generator and supply steam, which is used primarily for HVAC, manufacturing processes and experimental test.
GEU-21	The standard operation of the plasma spray booths is to apply coatings to uninstalled engine parts, fixtures, R&D and DOD parts and products.

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 UNITS 3 - Non-Vitiated Inlet Air Heaters 2 and 3

1. Fuel Consumption

a. Limitation or Restriction

- i. The maximum fuel consumption for Inlet Air Heater 2 over any consecutive 12 month period is 101,712 gallons of Jet A fuel and 114,720 gallons of propane. [NSR Permit No. 104-0028, Part I.4]
- ii. The maximum fuel consumption for Inlet Air Heater 3 over any consecutive 12 month period is 101,712 gallons of Jet A fuel and 114,720 gallons of propane. [NSR Permit No. 104-0029, Part I.4]

b. Monitoring Requirements

- i. The Permittee shall use a fuel metering device to continuously monitor fuel feed, when more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank. [RCSA §22a-174-33(j)(1)(K)(ii) and NSR Permit Nos. 104-0028 & -0029, Part IV.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for the Inlet Air Heaters. Consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [RCSA §22a-174-4(d)(1) and NSR Permit Nos. 104-0028 & -0029, Part IV.1]
- ii. The Permittee shall make and keep daily fuel use records for the days Inlet Air Heaters 2 and 3 were in operation. [40 CFR 63.7525(k)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel consumption for the Inlet Air Heaters in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

- i. The fuel Sulfur content (% by weight, dry basis) limit for Inlet Air Heater 2 is 0.1% for Jet A fuel. [NSR Permit No. 104-0028 Part I.5]
- ii. The fuel Sulfur content (% by weight, dry basis) limit for Inlet Air Heater 3 is 0.1% for Jet A fuel. [NSR Permit No. 104-0029 Part I.5]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of the liquid fuel burned in the Inlet Air Heaters. Records for a fuel certification shall include the following information: 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. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall report the average contractual sulfur content of the liquid fuel burned in the Inlet Air Heaters in the annual emission statement. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

3. Hours of Operation

a. Limitation or Restriction

- i. The maximum daily hours of operation limit for Inlet Air Heater 2 is 14 hours per day. [NSR Permit No. 104-0028, Part I.6]
- ii. The maximum daily hours of operation limit for Inlet Air Heater 3 is 14 hours per day. [NSR Permit No. 104-0029, Part I.6]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records the hours of operation of the Inlet Air Heaters using log entries. Records shall include the name or clock number of the responsible individual, the date and the hours run each day. The Permittee shall total the hours of operation annually. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

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

4. Nitrogen Oxides

a. Limitation or Restriction

The Permittee shall not cause or allow emissions of NO_x from the Inlet Air Heaters in excess of 700 ppmvd. [RCSA §22a-174-22(e)(2)(G)]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of the Inlet Air Heaters 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 RCSA §22a-174-22 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. [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;

Section III: Applicable Requirements and Compliance Demonstration

- (C) Records of the dates, times, and places of all emission testing required by RCSA §22a-174-22, 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(1)(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(1)(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(1)(6)]

5. Tune-Up

a. Limitation or Restriction

- i. The Permittee shall complete a tune-up on each Non-Vitiated Inlet Air Heater every 5 years. The tune-up should include, at a minimum, the following [40 CFR 63.7500(c) and 40 CFR 63.7540(a)(10)]:
 - (A) Inspect the burner and clean or replace any components as necessary;
 - (B) Inspect the flame pattern and adjust the burner as necessary to optimize the flame pattern;
 - (C) Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly;
 - (D) Optimize total emissions of carbon monoxide; and
 - (E) Measure the concentrations in the effluent stream of carbon monoxide, in parts per million by volume, and oxygen, in volume percent, before and after the adjustments are made.

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the tune-ups. Such records shall include the following [40 CFR 63.7540(a)(10)(vi)]:
 - (A) The concentrations of carbon monoxide in the effluent stream in parts per million by volume and oxygen in volume percent, measured before and after adjustments;
 - (B) A description of any corrective actions taken as a part of the combustion adjustment; and
 - (C) The type and amount of fuel used over the 12 months prior to the annual adjustment.

c. Reporting Requirements

- i. The Permittee shall maintain on-site and submit upon request to the Administrator or commissioner a report containing the information required in the tune-up. [40 CFR 63.7540(a)(10)(vi)]

Section III: Applicable Requirements and Compliance Demonstration

B. EMISSIONS UNIT 4 - FT-4 Industrial Drive Engines/Free Turbine Unit

1. Fuel Consumption

a. Limitation or Restriction

The maximum fuel consumption for the FT-4 gas turbine drive engine over any consecutive 12 month period is 1,257,777 gallons of Jet A fuel. [NSR Permit No. 104-0027, Part I.4]

b. Monitoring Requirements

- i. The Permittee shall use a fuel metering device to continuously monitor fuel feed when more than one fuel supply tank is to service this source, or when multiple sources are supplied by one fuel tank. [NSR Permit No. 104-0027, Part IV.2]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for the FT-4 gas turbine drive engine. Consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 104-0027, Part IV.1]

d. Reporting Requirements

- i. The Permittee shall report annual fuel consumption for the FT-4 gas turbine drive engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) limit for the FT-4 gas turbine drive engine is 0.1% for Jet A fuel. [NSR Permit No. 104-0027, Part I.5]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of the Jet A fuel burned in the FT-4 gas turbine drive engine. Records for a fuel certification shall include the following information: 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. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

- i. The Permittee shall report the average contractual sulfur content of the Jet A fuel burned in the FT-4 gas turbine drive engine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Hours of Operation

a. Limitation or Restriction

The maximum daily hours of operation limit for the FT-4 gas turbine drive engine is 14 hours per day. [NSR Permit No. 104-0027, Part I.6]

Section III: Applicable Requirements and Compliance Demonstration

b. Record Keeping Requirements

- i. The Permittee shall make and keep records the hours of operation of the FT-4 gas turbine drive engine using log entries. Records shall include the name or clock number of the responsible individual, the date and the hours run each day. The Permittee shall total the hours of operation annually. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

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

C. EMISSIONS UNIT 5 - GG-8 Stationary Gas Turbine Engines

1. Fuel Consumption

a. Limitation or Restriction

Maximum fuel consumption over any consecutive 12 month period is 259,609 gallons of jet fuel for the testing of GG-8 Gas Turbine Engines. [NSR Permit No. 104-0062, Part I.A.2]

b. Monitoring Requirements

- i. The Permittee shall use a fuel metering device to continuously monitor fuel feed when more than one fuel supply tank is to service this source, or when multiple sources are supplied by one fuel tank. [NSR Permit No. 104-0062, Part IV.A.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for the testing of GG-8 Gas Turbine Engines. Consecutive 12 month fuel consumption shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 104-0062, Part IV.B.1]

d. Reporting Requirements

- i. The Permittee shall report annual fuel consumption for the testing of GG-8 Gas Turbine Engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) shall not exceed 0.2% for Jet fuel for the testing of GG-8 Gas Turbine Engines. [NSR Permit No. 104-0062, Part I.A.3]

b. Record Keeping Requirements

- i. The Permittee shall keep records of the fuel certification and sampling that include the following information: 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. Records for a current contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [NSR Permit No. 104-0062, Part IV.B.2]

c. Reporting Requirements

- i. The Permittee shall report the average contractual sulfur content for the Jet fuel for the testing of GG-8 Gas Turbine Engines in the annual emission statement. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

3. Nitrogen Oxides

a. Limitation or Restriction

The Permittee shall not cause or allow emissions of NO_x from the production GG-8 Gas Turbine Engines in excess of 700 ppmvd @ 15% O₂. [RCSA §22a-174-22(e)(2)(G)]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of a production GG-8 gas turbine engine 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 RCSA §22a-174-22 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. [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 RCSA §22a-174-22, 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)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. On or before April 15 of each year, the Permittee shall submit a report on NOx emissions from such source, on a form provided by the commissioner. The Permittee shall comply with this requirement by reporting NOx emissions for this emission unit in the annual emissions statement. [RCSA §22a-174-22(1)(6)]

D. EMISSIONS UNIT 6 - Combustion Test Rig X-960

1. Fuel Consumption

a. Limitation or Restriction

The maximum fuel consumption for the Experimental Aircraft Engine Combustion Rig X-960 over any consecutive 12 month period is 294,502 gallons of aviation fuel or No. 2 oil/diesel or 36 MMCF of natural gas, where 1 MMCF Natural Gas may be substituted for each 8180.6 gallons of liquid fuel. [NSR Permit No. 104-0030, Part II.A.1]

b. Monitoring Requirements

- i. The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter. [NSR Permit No. 104-0030, Part III.A.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption for the Experimental Aircraft Engine Combustion Rig X-960. Consecutive 12 month fuel consumption shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 104-0030, Part III.B.1]

d. Reporting Requirements

- i. The Permittee shall report annual fuel consumption for the Experimental Aircraft Engine Combustion Rig X-960 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) limit for the Experimental Aircraft Engine Combustion Rig X-960 is 0.1% for aviation fuel or No. 2 oil/diesel. [NSR Permit No. 104-0030 Part II.A.2]

b. Record Keeping Requirements

- i. The Permittee shall keep records of the fuel certification for each delivery of aviation fuel and No.2 oil/diesel 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 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 No. 104-0030, Part III.B.3]

c. Reporting Requirements

- i. The Permittee shall report average contractual sulfur content for the aviation fuel or No. 2 oil/diesel burned in the Experimental Aircraft Engine Combustion Rig X-960 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

3. Hours of Operation

a. Limitation or Restriction

The maximum daily hours of operation for the Experimental Aircraft Engine Combustion Rig X-960 is 14 hours per day. [NSR Permit No. 104-0030, Part II.A.3]

b. Record Keeping Requirements

i. The Permittee shall make and keep records the hours of operation of the Experimental Aircraft Engine Combustion Rig X-960. Records shall include the name or clock number of the responsible individual, the date and the hours run each day. The Permittee shall total the hours of operation annually. [NSR Permit No. 104-0030, Part III.B.3]

c. Reporting Requirements

i. The Permittee shall report annual hours of operation for the Experimental Aircraft Engine Combustion Rig X-960 in the annual emission statement. [RCSA §22a-174-4(d)(1)]

E. EMISSIONS UNITS 4, 5 & 6 - FT-4 Gas Turbine Engine, Testing of GG-8 Gas Turbine Engines, and Combustion Test Rig X-960

1. Order 8098, Schedule Modification

a. Limitation or Restriction

The commissioner has determined that it is not technologically or economically feasible for the subject equipment to comply with the emissions limitations in RCSA §22a-174-22(e) through (g). [Consent Order 8098 Paragraph A.4] The commissioner will consider P&W to be in current compliance with Consent Order 8098 if it: (A) maintains and submits all records required by Consent Order 8098 and (B) operates the subject equipment on days during the ozone season that the Department does not forecast “Moderate to Unhealthful”, “Unhealthful”, “Unhealthful to Very unhealthful”, “Very unhealthful to Hazardous” or “Hazardous” ozone levels, even if the forecast subsequently becomes a “Moderate to Unhealthful” ozone level day. [Consent Order 8098 Paragraph B.1.f]

b. Monitoring Requirements

i. On each weekday before a day P&W intends to operate the subject equipment at the facility during the ozone season, P&W shall obtain from the commissioner the predicted ozone forecast for the following weekday or, on Friday or days preceding a Connecticut or federal holiday, for the following weekend day(s) and/or the first following weekday. The ozone forecast shall be obtained by calling the commissioner at (860) 424-4167 or an alternative telephone number specified by the commissioner after 3 P.M. and listening to the recorded message.[Consent Order 8098 Paragraph B.1.a]

c. Record Keeping Requirements

i. P&W shall maintain a log during the ozone season of those days that the subject equipment is operated, fuel use by the subject equipment on those days, and the ozone level predicted for those days. On or before December 31 of each year following issuance of Consent Order 8098, P&W shall submit copies of the log for the previous ozone season to the commissioner. In addition, P&W shall comply with applicable record keeping requirements of RCSA §22a-174-22(l) for the subject equipment at the facility. [Consent Order 8098 Paragraph B.1.e]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. On or before December 31 of each year following issuance of this Consent Order, P&W shall submit copies of the log for the previous ozone season to the commissioner. [Consent Order 8098 Paragraph B.1.e]

F. GROUPED EMISSIONS UNITS 7 - Emergency Engines subject to RCSA §22a-174-3b(e), 22a-174-22, and 40 CFR Part 63 Subpart ZZZZ

Cummins Model No. NTA855-G3

Cummins Model No. NTA495-G2

Cummins-Onan Model No. 6CTA0098

Kohler Model No. 4045TF250

Cummins Model No. N855GS

1. Hours of Operation

a. Limitation or Restriction

The Permittee shall not cause or allow each emergency engine 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. 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)]

c. Reporting Requirements

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

2. Sulfur Content

a. Limitation or Restriction

The Permittee shall not combust fuel in the emergency engines with a fuel sulfur content in excess of 15 ppm. [RCSA §22a-174-3b(e)(2)(D)]

b. Record Keeping Requirements

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

c. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

3. Particulate Matter

a. Limitation or Restriction

- i. **(FEDERALLY ENFORCEABLE SIP REQUIREMENT)** The Permittee shall either not cause or allow the Cummins NTA495-G2 and Cummins-Onan 6CTA0098 emergency engines to emit more than 0.10 pounds of particulate matter per million BTU of heat input or combust only fuel with a sulfur content less than or equal to 0.05% by weight, because they were manufactured prior to or in model year 1996. [RCSA §22a-174-18(e)(3)]
- 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). [RCSA §22a-174-18(j)(6)]

b. Record Keeping Requirements

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

c. 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)]

4. Nitrogen Oxides

a. Limitation or Restriction

There are no operating limitations on nitrogen oxide emissions for the emergency engines. However, only the Cummins NTA855-G3 emergency engine has record keeping and reporting requirements because it is a reciprocating engine with a maximum rated capacity of 3 MMBTU/hr or more. [RCSA §22a-174-22(b)(1)(A)(i)]

b. 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)]

Section III: Applicable Requirements and Compliance Demonstration

c. 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. 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(1)(6)]

G. GROUPED EMISSIONS UNITS 7 & 8 – Emergency Engines Subject to 40 CFR 63 Subpart ZZZZ

GEU 7

Cummins Model No. NTA855-G3
Cummins Model No. NTA495-G2
Cummins-Onan Model No. 6CTA0098
Kohler Model No. 4045TF250
Cummins Model No. N855GS

GEU 8

Cummins Model No. 4B3.9-G2
CPG(Cummins) Model No. BT3.9-G4
Cummins-Onan Model No. LPW4
Cummins Model No. 6CTA8.3-F3
Cummins Model No. NT855GS2
Cummins Model No. N855F

1. Work Practice Standards

a. Limitation or Restriction

- 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)]
- ii. The Permittee shall inspect the air cleaner on each emergency engine 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 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)]
- iv. 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)]
- v. 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.G.1.a.i.-iv. 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]
- vi. 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)]
- vii. The Permittee shall operate and maintain each 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)]

Section III: Applicable Requirements and Compliance Demonstration

- viii. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Section III.G.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)]
- ix. 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) There is no time limit on the use of each emergency engine in emergency situations.
 - (B) The Permittee may operate each emergency engine for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section III.G.1.ix.(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 RCSEA §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) 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)]
 - (C) 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.G.1.ix.(B) 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. The Permittee shall install a non-resettable hour meter on each emergency engine. [40 CFR §63.6625(f)]

Section III: Applicable Requirements and Compliance Demonstration

c. Recordkeeping Requirements

- i. The Permittee shall make and keep records of the parameters that 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.G.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.G.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.G.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.
 - (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.G.1.a.vi. of this Title V permit, including actions taken to correct a malfunction.

Section III: Applicable Requirements and Compliance Demonstration

- (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.

H. GROUPED EMISSIONS UNIT 9 – Emergency Engines Subject to NSPS Subpart IIII and RCSA §22a-174-3b(e)

Cummins Model No. 4BT3.3-G6 NR

Cummins Model No. QSB7-G5 NR3

1. Criteria Pollutants

a. Limitation or Restriction

- i. The Permittee shall not cause or allow the emergency engines to exceed the following emissions limitations [40 CFR §60.4205(b)]:
 - (A) NO_x + NMHC – 4.0 g/KW-hr
 - (B) CO – 3.5 g/KW-hr
 - I PM – 0.20 g/KW-hr

b. Recordkeeping Requirements

- i. The Permittee must make and keep records from the manufacturer certifying the engines comply with the emission limitations specified in Part III.H.1.a. of this Title V Permit and that the engines were installed and configured according to manufacturer's emission-related specifications. [RSCA §22a-174-33(j)(1)(K)(ii)]

c. Reporting Requirements

- i. The Permittee shall make records of criteria pollutant emission rates for each emergency engine available to the commissioner upon request. [RSCA §22a-174-4(d)(1)]

2. Fuel Sulfur Content

a. Limitation or Restriction

- i. The Permittee shall not combust fuel in the emergency engines subject to NSPS Subpart IIII with a fuel sulfur content greater than 15 ppm. [40 CFR §60.4207(b)]

b. Recordkeeping Requirements

- i. The Permittee shall keep any of the following records to demonstrate compliance of the sulfur content of fuel used in each emergency engine: (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. [RSCA §22a-174-33(j)(1)(K)(ii)]

c. Reporting Requirements

- i. The Permittee shall make records of fuel sulfur content for each emergency engine available to the commissioner upon request. [RSCA §22a-174-4(d)(1)]

Section III: Applicable Requirements and Compliance Demonstration

3. Annual Hours of Operation

a. Limitation or Restriction

- i. The Permittee shall not cause or allow each emergency engine 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)]
- ii. Each emergency engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of the engines in emergency situations. [40 CFR §60.4211(f)]

b. Recordkeeping 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. Each record shall indicate the hours of operation for maintenance checks and readiness testing and the hours of operation in emergency situations. [RCSA §22a-174-3b(e)(4) and §22a-174-33(j)(1)(K)(ii)]

c. Reporting Requirements

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

I. EMISSIONS UNIT 11 - Binks Model NPB-12-7-TLH Spray Booth

1. Coating Usage

a. Limitation or Restriction

The use of PMC 1873 Skybond 703 Polyimide Resin is restricted. Allowable range of paint to thinner ratios 0.5:1 to 1.5:1. Allowable coating usage (gal/hr and gal/day) = $(-0.36)X + 1.7$, where X= portion of paint in paint to thinner ratio, from 0.5 to 1.5. The use of other coatings other than the above listed one is allowed, however, under no circumstances, shall the use of any coating violate any condition of NSR permit 104-0073. [NSR Permit No. 104-0073, Part B]

b. Record Keeping Requirements

- i. The Permittee shall maintain records of coating and solvent usage for the Binks spray booth. Records shall be kept on site at all times, shall be made available to the commissioner upon request and shall contain the following information [NSR Permit No. 104-0073, Part F]:
 - (A) Coatings used and amount of consumption for each one on a daily, monthly and yearly basis.
 - (B) Description of each coating used including coating name, density, VOC content, content of each individual hazardous air pollutant, non-volatile content and solids content (by weight and volume).
 - (C) In addition, purchasing records and material safety data sheets for each coating and solvent used shall be kept on site.

c. Reporting Requirements

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

Section III: Applicable Requirements and Compliance Demonstration

2. Allowable VOC and PM Emission Limits

a. Limitation or Restriction

- i. The allowable emission rates for the Binks Model NPB-12-7-TLH Waterwash Design Spray Booth are [NSR Permit No. 104-0073, Part A]:
 - (A) VOC: 10 lb/hr, 10 lb/day, and 1.83 tons/year
 - (B) PM: 0.59 lb/hr, 0.59 lb/day, and 0.11 tons/year

b. Record Keeping Requirements

- i. The Permittee shall maintain records of PM and VOC emissions for the Binks spray booth. Records shall be kept on site at all times, shall be made available to the commissioner upon request and shall contain the following information [NSR Permit No. 104-0073, Part F]:
 - (A) VOCs emitted on a daily, monthly and yearly basis.
 - (B) Annual VOC emissions shall be based on any consecutive 12 month period and shall be determined by adding the current month's VOC emissions to that of the previous 11 months. This calculation shall be made on a monthly basis. Calculations to show compliance with the pound per day limit shall be made on a daily basis. To show compliance with the premises conditions, calculations shall be made on a monthly and yearly basis for all premises wide miscellaneous metal parts spray coating operations.

c. Reporting Requirements

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

J. EMISSIONS UNITS 12 & 13 – ATR Paint Spray Booths 1 & 2

1. Coating Usage

a. Limitation or Restriction

- i. Type of Coatings Applied: Specialty coatings as defined by 40 CFR 63, Subpart GG and EPA Control Techniques Guideline: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations (EPA-453/R-97-004). [NSR Permit Nos. 104-0126 & -0139, Part II.A.1]
- ii. Maximum VOC Content of Specialty Coatings as Applied (excluding water and exempt VOCs: Not to exceed VOC content limits as defined in section B.3(a)(1) of EPA Control Techniques Guideline: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations. [NSR Permit Nos. 104-0126 & -0139, Part II.A.2]
- iii. Maximum Application Rate: 1.8 gal/hr. [NSR Permit No. 104-0126, Part II.A.3]
- iv. Type of Cleaners Used: All solvent cleaners used shall comply with 40 CFR 63.744 and section B.3(c) of the EPA Control Techniques Guideline: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations. [NSR Permit Nos. 104-0126, Part II.A.4 & 104-0139, Part II.A.3]

Section III: Applicable Requirements and Compliance Demonstration

b. Record Keeping Requirements

- i. The Permittee shall maintain records of all coatings (as applied) and cleaners used. Such records shall contain the following information along with records required by 40 CFR 63.753 and section B.4 of the EPA Control Techniques Guideline: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations [NSR Permit Nos. 104-0126, Part III.A.1 & 104-0139, Part IV.A.1]:
 - (A) A current list of coatings in use with category and VOC content less water and less exempt VOC as applied;
 - (B) A current list of cleaners in use with VOC content less water and less exempt VOC as applied;
 - (C) Solids content as applied.
- ii. The Permittee shall keep the following records hourly, daily and monthly [NSR Permit Nos. 104-0126, Part III.A.2 & 104-0139 Part IV.A.2]:
 - (A) Date of application;
 - (B) Method of coating application;
 - (C) Name of coating or cleaner used;
 - (D) Amount of each coating used.

c. Reporting Requirements

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

2. PM-10 & VOC Emissions

a. Limitation or Restriction

- i. The PM-10 and VOC emissions limits for the ATR surface coating operation (BT 541944) are [NSR Permit No. 104-0126, Part II.C.1]:
 - (A) PM-10: 0.13 lb/hr, 1.03E-2 TPY
 - (B) VOC: 7.17 lb/hr, 4.14 TPY
- ii. The PM-10 and VOC emissions limits for the ATR paint spray booth (BT 542361) are [NSR Permit No. 104-0139, Part II.C.1] (Note: NSR Permits 104-0073, -0074 and -0139 combined VOC and PM emissions shall not exceed these allowable emission rates for VOC and PM.):
 - (A) PM-10: 0.59 lb/hr, 0.11 TPY
 - (B) VOC: 10.0 lb/hr, 1.83 TPY

b. Record Keeping Requirements

- i. The Permittee shall keep the following records hourly, daily and monthly [NSR Permit Nos. 104-0126, Part III.A.2 & 104-0139, Part IV.A.2]:
 - (A) Amount of VOC emitted (lb or ton)
 - (B) Amount of PM-10 emitted (lb or ton)
- ii. The Permittee shall keep a consecutive 12-month record of VOC and particulate emissions, which shall be determined by adding the current month's record to that of the previous 11 months. These calculations shall be made on a monthly basis. [NSR Permit Nos. 104-0126, Part III.A.2 & 104-0139, Part IV.A.2]

Section III: Applicable Requirements and Compliance Demonstration

c. Reporting Requirements

- i. The Permittee shall report annual PM-10 and VOC emissions for each spray booth in the annual emission statement. [RCSA §22a-174-4(d)(1)]

K. EMISSIONS UNITS 11, 12, & 13 – Binks Model NPB-12-7-TLH Spray Booth and ATR Paint Spray Booths 1 & 2

1. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall clean spray guns using one or more of the techniques, or their equivalent, specified in 40 CFR §63.744(c)(1) through (c)(4). Spray gun cleaning operations using cleaning solvent solutions that contain HAP and VOC below the de minimis levels specified in 40 CFR §63.741(f) are exempt from the requirements in 40 CFR §63.744(c)(1) through (c)(4). [40 CFR §63.744(c)]:
 - (A) Enclosed system. Clean the spray gun in an enclosed system that is closed at all times except when inserting or removing the spray gun. Cleaning shall consist of forcing the solvent through the gun.
 - (B) Nonatomized cleaning. Clean the spray gun by placing cleaning solvent in the pressure pot and forcing it through the gun with the atomizing cap in place. No atomizing air is to be used. Direct the cleaning solvent from the spray gun into a vat, drum, or other waste container that is closed when not in use.
 - (C) Disassembled spray gun cleaning. Disassemble the spray gun and clean the components by hand in a vat, which shall remain closed at all times except when in use. Alternatively, soak the components in a vat, which shall remain closed during the soaking period and when not inserting or removing components.
 - (D) Atomizing cleaning. Clean the spray gun by forcing the cleaning solution through the gun and direct the resulting atomized spray into a waste container that is fitted with a device designed to capture the atomized cleaning solvent emissions.

b. Monitoring Requirements

- i. The Permittee, using an enclosed spray gun cleaner under 40 CFR §63.744(c)(1), shall visually inspect the seals and all other potential sources of leaks associated with each enclosed gun spray cleaner system at least once per month. Each inspection shall occur while the system is in operation [40 CFR §63.751(a)]

c. Record Keeping Requirements

- i. The Permittee shall record the following information for the spray gun cleaning operation [40 CFR §63.752(b)]:
 - (A) The name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations at the facility;
 - (B) A record of all leaks from enclosed spray gun cleaners identified pursuant to 40 CFR §63.751(a) that includes for each leak found: Source identification; Date leak was discovered; and Date leak was repaired.

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall submit semiannual reports for the spray gun cleaning operation occurring every six months from the date of notification of compliance status that identify [40 CFR §63.753(b)]:
 - (A) Any instance where a noncompliant spray gun cleaning method is used;
 - (B) Any instance where a leaking enclosed spray gun cleaner remains unrepaired and in use for more than ten days; and
 - (C) If the operations have been in compliance for the semiannual period, a statement that the cleaning operations have been in compliance with the applicable standards. Sources shall also submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements.

L. GROUPED EMISSIONS UNITS 17 - Rentech Boilers 1 & 2

1. Fuel Consumption

a. Limitation or Restriction

- i. The maximum fuel consumption for Rentech boiler 1 over any consecutive 12 month period is 425.6 million cubic feet of natural gas and 1,457,217 gallons of No. 2 oil. [NSR Permit No. 104-0140, Part I.A.2]
- ii. The maximum fuel consumption for Rentech boiler 2 over any consecutive 12 month period is 425.6 million cubic feet of natural gas and 1,457,217 gallons of No. 2 oil. [NSR Permit No. 104-0141, Part I.A.2]

b. Monitoring Requirements

- i. The Permittee shall use a non-resettable totalizing fuel metering device or a billing meter to continuously monitor natural gas and No. 2 oil feed to the Rentech boilers. [NSR Permit Nos. 104-0140 & -0141, Part IV.A.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of annual fuel consumption for the Rentech boilers. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit Nos. 104-0140 & -0141, Part IV.B.1]
- ii. The Permittee shall record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR §60.48c(g)(2)]

d. Reporting Requirements

- i. The Permittee shall report annual fuel consumption for each Rentech boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) limit for each Rentech boiler is 0.05%. [NSR Permit Nos. 104-0140 & -0141, Part I.A.3]

Section III: Applicable Requirements and Compliance Demonstration

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of each shipment of liquid fuel received at the Middletown plant, either by (A) a shipping receipt and certification from the fuel supplier, or (B) performing an analysis using the method found in ASTM D4294, or (C) a copy of a current fuel supplier contract. Records for a fuel certification and analysis shall include the following information: 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. Records for a current contract shall include the following information: the name of the fuel supplier, type or grade of fuel delivered and the maximum percentage of sulfur in such fuel, by weight, dry basis. [NSR Permit Nos. 104-0140 & -0141, Part IV.B.2 and 40 CFR §60.48c(f)(1)]

c. Reporting Requirements

- i. The Permittee shall report average contractual sulfur content for the No. 2 oil burned in the Rentech boilers in the annual emission statement. [RCSA §22a-174-4(d)(1)]
- ii. The Permittee shall report the sulfur content for the No. 2 oil burned in the Rentech boilers to the Administrator. The report shall include the following information [40 CFR §60.48c(d) & (e)]:
 - (A) Calendar dates covered in the reporting period.
 - (B) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
 - (C) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR §60.48c(f)(1). In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

3. Particulate Matter

a. Limitation or Restriction

On or after the date on which the initial performance test is completed or is required to be completed, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from each Rentech boiler any gases that contain particulate matter emissions in excess of 0.030 lb/MMBtu heat input. [40 CFR §60.43c(e)(1)] The PM and opacity standards under 40 CFR §60.43c apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR §60.43c(d)]

b. Monitoring Requirements

- i. The Permittee shall conduct an initial performance test for each Rentech boiler as required under 40 CFR §60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods. [40 CFR §60.45c(a)]
 - (A) Method 1 shall be used to select the sampling site and the number of traverse sampling points.
 - (B) Method 3 shall be used for gas analysis when applying Method 5, Method 5B, or Method 17.

Section III: Applicable Requirements and Compliance Demonstration

- (C) Method 5, Method 5B, or Method 17 shall be used to measure the concentration of PM as follows: (1) Method 5 may be used only at affected facilities without wet scrubber systems. (2) Method 17 may be used at affected facilities with or without wet scrubber systems provided the stack gas temperature does not exceed a temperature of 160 °C (320 °F). The procedures of Sections 8.1 and 11.1 of Method 5B may be used in Method 17 only if Method 17 is used in conjunction with a wet scrubber system. Method 17 shall not be used in conjunction with a wet scrubber system if the effluent is saturated or laden with water droplets. (3) Method 5B may be used in conjunction with a wet scrubber system.
- (D) The sampling time for each run shall be at least 120 minutes and the minimum sampling volume shall be 1.7 dry standard cubic meters (dscm) [60 dry standard cubic feet (dscf)] except that smaller sampling times or volumes may be approved by the Administrator when necessitated by process variables or other factors.
- (E) For Method 5 or Method 5B, the temperature of the sample gas in the probe and filter holder shall be monitored and maintained at 160 ±14 °C (320 ±25 °F).
- (F) For determination of PM emissions, an oxygen or carbon dioxide measurement shall be obtained simultaneously with each run of Method 5, Method 5B, or Method 17 by traversing the duct at the same sampling location.
- (G) For each run using Method 5, Method 5B, or Method 17, the emission rates expressed in ng/J (lb/million Btu) heat input shall be determined using: (1) The oxygen or carbon dioxide measurements and PM measurements obtained under this section, (2) The dry basis F-factor, and (3) The dry basis emission rate calculation procedure contained in Method 19 (Appendix A).

c. Record Keeping Requirements

- i. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [NSR Permit Nos. 104-0140 & -0141, Part IV.B.3]

d. Reporting Requirements

- i. An acceptable test report must be submitted to the Bureau within 45 days of the completion of emission testing. [NSR Permit Nos. 104-0140 & -0141, Appendix B]
- ii. The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests. [40 CFR §60.48c(b)]

4. Opacity

a. Limitation or Restriction

On and after the date on which the initial performance test is completed or required to be completed, whichever date comes first, the Permittee shall not cause to be discharged into the atmosphere from each Rentech boiler any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR §60.43c(c)] The PM and opacity standards under 40 CFR §60.43c apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR §60.43c(d)]

b. Monitoring Requirements

- i. The Permittee shall conduct an initial performance test as required under 40 CFR §60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the standards using Method 9 (6-minute average of 24 observations) shall be used for determining the opacity of stack emissions. [40 CFR §60.45c(a)]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [NSR Permit Nos. 104-0140 & -0141, Part IV.B.3]

d. Reporting Requirements

- i. An acceptable test report must be submitted to the Bureau within 45 days of the completion of emission testing. [NSR Permit Nos. 104-0140 & -0141, Appendix B]
- ii. The Permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests. [40 CFR §60.48c(b)]

5. Nitrogen Oxides

a. Limitation or Restriction

The Permittee shall meet the nitrogen oxide emission limitation for each Rentech boiler of 0.20 lb/MMBTU when operating on natural gas or No. 2 oil. [RCSA §22a-174-22(e)(Table 22-1)]

b. Monitoring Requirements

- i. The Permittee shall conduct an emission test of the Rentech 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 RCSA §22a-174-22 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. [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 RCSA §22a-174-22, 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.

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)]

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 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(1)(6)] The Permittee shall comply with this requirement by reporting NO_x emissions for this emission unit in the annual emissions statement.

6. 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 when combusting No. 2 fuel oil 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.

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)]
- ii. 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)]
- iii. The Permittee shall install, operate, and maintain an oxygen analyzer system to demonstrate compliance with the CO emission limitation. [40 CFR §63.7525(a)]

Section III: Applicable Requirements and Compliance Demonstration

c. Recordkeeping Requirements

- i. The Permittee shall use the results of the initial performance testing required by Section III.L.6.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)]
- ii. 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)]
- iii. The Permittee shall keep records of all performance tests, fuel analyses or other compliance demonstrations and performance evaluations. [40 CFR §63.7555(a)(2)]
- iv. The Permittee shall make and keep records of monthly fuel use by each boiler, including the type of fuel and amount used.[40 CFR §63.7555(d)(1)]
- v. 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)]
- vi. 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)]
- vii. 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)]
- viii. 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 each 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

Section III: Applicable Requirements and Compliance Demonstration

- (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.
- (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.L.6.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)]

7. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall comply with the following work practice standards no later than January 31, 2016:
 - (A) Conduct an initial tune up. [40 CFR §63.7510(e)] Subsequent tune ups of each boiler shall be conducted every 5 years. [40 CFR §63.7540(a)(12)] 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 NO_x limitation.
 - (4) Measurement of the concentrations in the effluent stream of CO in parts per million by volume (ppmv) and oxygen in weight percent (wt.%) before and after the adjustments are made.
 - (B) Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements, satisfies the energy assessment requirement. The energy assessment must include [40 CFR §63.7510(e)]:

Section III: Applicable Requirements and Compliance Demonstration

- (1) A visual inspection of the boiler systems.
 - (2) An evaluation of operating characteristics of the boiler systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
 - (3) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the Permittee.
 - (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
 - (5) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified.
 - (6) A list of cost effective energy conservation measures that are within the facility's control
 - (7) A list of the energy savings potential of the energy conservation measures identified.
 - (8) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (C) The Permittee shall operate and maintain the boilers 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. *Recordkeeping Requirements*
- i. The Permittee shall make and keep records of the 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 wt. % measured before and after the tune-up of each 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 60 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.L.7.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)]

M. EMISSIONS UNIT 18 - Solar Taurus 70 Gas Turbine

1. Fuel Consumption

a. Limitation or Restriction

The maximum fuel consumption for the Solar gas turbine over any consecutive 12 month period is 726.06 million cubic feet of natural gas and 539,140 gallons of No. 2 oil. [NSR Permit No. 104-0142, Part I.A.2]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. The Permittee shall use a non-resettable totalizing fuel metering device or a billing meter to continuously monitor natural gas and No. 2 oil feed to the Solar gas turbine. [NSR Permit No. 104-0142, Part IV.A.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 104-0142, Part IV.B.1]

d. Reporting Requirements

- i. The Permittee shall report annual natural gas and No. 2 oil consumption for the Solar gas turbine in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Fuel Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) limit for the No. 2 oil for the Solar gas turbine is 0.05%. [NSR Permit No. 104-0142, Part I.A.3]

b. Monitoring Requirements

- i. The Permittee is exempted from monitoring the total sulfur content of the fuel because the sulfur content of No. 2 oil is limited to 0.05 weight percent and will be verified by a current, valid purchase contract, tariff sheet or transportation contract for the fuel. [40 CFR §60.4365(a)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of each shipment of liquid fuel received at the Middletown plant, either by (A) a shipping receipt and certification from the fuel supplier, or (B) performing an analysis using the method found in ASTM D4294, or (C) a copy of a current fuel supplier contract. Records for a fuel certification and analysis shall include the following information: 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. Records for a current contract shall include the following information: the name of the fuel supplier, type or grade of fuel delivered and the maximum percentage of sulfur in such fuel, by weight, dry basis. [NSR Permit No. 104-0142, Part IV.B.2]

d. Reporting Requirements

- i. The Permittee shall report the average contractual sulfur content for the No. 2 oil in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Nitrogen Oxides

a. Limitation or Restriction

- i. The NO_x emission limit for the Solar gas turbine is 2.5 ppmvd @15% O₂ at ISO standard conditions when operating on natural gas. [NSR Permit No. 104-0142, Part VI]
- ii. The NO_x emission limit for the Solar gas turbine is 9.6 ppmvd @15% O₂ at ISO standard conditions when operating on No. 2 oil. [NSR Permit No. 104-0142, Part VI]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. Continuous compliance for NO_x may be demonstrated through annual performance tests in accordance with 40 CFR §60.4400. If the NO_x emission result from the performance test is less than or equal to 75% of the NO_x emission limits in Table 1 of 40 CFR Part 60 Subpart KKKK for the turbine, the frequency of subsequent performance tests may be reduced to once every two years. [NSR Permit No. 104-0142, Part VII and 40 CFR §60.4340(a)]

c. Record Keeping Requirements

- i. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [NSR Permit No. 104-0142, Part IV.B.3]

d. Reporting Requirements

- i. The Permittee shall submit an acceptable test report to the Bureau within 45 days of the completion of emission testing. [NSR Permit No. 104-0142, Appendix B]
- ii. The Permittee must submit a written report to the Administrator of the results of each performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR §60.4375(b)]

4. Ammonia

a. Limitation or Restriction

The ammonia emissions limit for the Solar gas turbine is 5 ppmvd @ 15% O₂ at ISO standard conditions. [NSR Permit No. 104-0142, Part VI]

b. Monitoring Requirements

- i. The Permittee shall conduct stack emission testing for ammonia every four years from date of initial performance test. [NSR Permit No. 104-0142, Part VII]

c. Record Keeping Requirements

- i. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [NSR Permit No. 104-0142, Part IV.B.3]

d. Reporting Requirements

- i. The Permittee shall submit an acceptable test report to the Bureau within 45 days of the completion of emission testing. [NSR Permit No. 104-0142, Appendix B]

5. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall properly operate the control equipment at all times that this turbine is in operation and emitting air pollutants. [NSR Permit No. 104-0142, Part V.B]
- ii. The Permittee shall inspect the SCR catalyst once per year, at a minimum, and replace it as required through the monitoring of the catalyst test pieces. [NSR Permit No. 104-0142, Part IV.A.2]

b. Monitoring Requirements

- i. The Permittee shall monitor the catalyst test pieces for the purposes of determining when to replace the SCR catalyst. (RSCA §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 catalyst inspections and replacements. [RSCA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request. [RSCA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall make records of criteria pollutant emission rates for the gas turbine engine available to the commissioner upon request. [RCSA §22a-174-4(d)(1)]

N. EMISSIONS UNIT 19 - Cleaver Brooks D-68 Boiler

1. Fuel Consumption

a. Limitation or Restriction

The maximum fuel consumption for Cleaver Brooks D-68 boiler over any consecutive 12 month period is 2,595,500 gallons of No. 2 oil. [NSR Permit No. 104-0036, Part I.A.2]

b. Monitoring Requirements

- i. The Permittee shall use a non-resettable totalizing fuel metering device or a billing meter to continuously monitor No. 2 oil feed to the Cleaver Brooks D-68 boiler. [NSR Permit No. 104-0036, Part IV.A.1]

c. Record Keeping Requirements

- i. The Permittee shall keep records of annual fuel consumption for the Cleaver Brooks D-68 boiler. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [NSR Permit No. 104-0036, Part IV.B.1]

d. Reporting Requirements

- i. The Permittee shall report annual fuel usage for the Cleaver Brooks D-68 boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]

2. Sulfur Content

a. Limitation or Restriction

The fuel sulfur content (% by weight, dry basis) limit for the Cleaver Brooks D-68 boiler is 0.05%. [NSR Permit No. 104-0036, Part I.A.3]

b. Record Keeping Requirements

- i. The Permittee shall make and keep records of the sulfur content of each shipment of liquid fuel received at the Middletown plant, either by (A) a shipping receipt and certification from the fuel supplier, or (B) performing an analysis using the method found in ASTM D4294, or (C) a copy of a current fuel supplier contract. Records for a fuel certification and analysis shall include the following information: 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. Records for a current contract shall include the following information: the name of the fuel supplier, type or grade of fuel delivered and the maximum percentage of sulfur in such fuel, by weight, dry basis. [NSR Permit No. 104-0036, Part IV.B.2]

Section III: Applicable Requirements and Compliance Demonstration

c. Reporting Requirements

- i. The Permittee shall report the average contractual sulfur content of the No. 2 oil burned in the Cleaver Brooks D-68 boiler in the annual emission statement. [RCSA §22a-174-4(d)(1)]

3. Nitrogen Oxides

a. Limitation or Restriction

The Permittee shall meet the nitrogen oxide emission limitations for the Cleaver Brooks D-68 boiler of 0.20 lb/MMBTU 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 Cleaver Brooks D-68 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 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 RCSA §22a-174-22, 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)]

Section III: Applicable Requirements and Compliance Demonstration

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 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(1)(6)]

4. 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.

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. [40 CFR §63.7525(a)]

c. Recordkeeping Requirements

- i. The Permittee shall use the results of the initial performance testing required in section III.N.4.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)]

Section III: Applicable Requirements and Compliance Demonstration

- ii. 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)]
 - iii. The Permittee shall keep records of all performance tests, fuel analyses or other compliance demonstrations and performance evaluations. [40 CFR §63.7555(a)(2)]
 - iv. 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)]
 - v. 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)]
 - vi. 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)]
 - vii. 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)]
 - viii. 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)]
 - ix. 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

Section III: Applicable Requirements and Compliance Demonstration

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.
- (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.N.4.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)]

5. Work Practice Standards

a. Limitation or Restriction

- i. The Permittee shall comply with the following work practice standards no later than January 31, 2016:
 - (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 NO_x limitation.
 - (4) Measurement of the concentrations in the effluent stream of CO in parts per million by volume (ppmv) and oxygen in weight percent (wt.%) before and after the adjustments are made.
 - (B) Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements, satisfies the energy assessment requirement. The energy assessment must include [40 CFR §63.7510(e)]:
 - (1) A visual inspection of the boiler system.

Section III: Applicable Requirements and Compliance Demonstration

- (2) An evaluation of operating characteristics of the boiler systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
 - (3) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the Permittee.
 - (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
 - (5) A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified.
 - (6) A list of cost effective energy conservation measures that are within the facility's control
 - (7) A list of the energy savings potential of the energy conservation measures identified.
 - (8) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- (C) 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. Recordkeeping 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 wt. % 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.N.5.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)]

O. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

- 1. Annual Emission Statements:** The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
- 2. Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- 3. Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.

Section III: Applicable Requirements and Compliance Demonstration

4. **Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
8. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
17. **Emission Fees:** The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
18. **VOC RACT:** The Permittee shall comply with the standards for Reasonably Available Control Technology (RACT) for volatile organic compounds as set forth in RCSA §22a-174-32 by complying with the Control Technology Guideline: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations (EPA-453/R-97-004).
19. **VOC Emissions from Miscellaneous Metal Parts Surface Coating Operations:** The Permittee shall comply with the premises-wide VOC emissions limitation as set forth in New Source Review permits 104-0073 Parts D & F, 104-0126 Parts IV.B & III.A.2 & 3, and 104-0139 Parts VI.B & IV.A.2 & 3.
20. **Small Steam Generating Unit NSPS:** The Permittee shall comply with the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units as specified in 40 CFR 60, Subpart Dc.
21. **Stationary Combustion Turbines NSPS:** The Permittee shall comply with the New Source Performance Standards for Stationary Combustion Turbines as specified in 40 CFR 60, Subpart KKKK.

Section III: Applicable Requirements and Compliance Demonstration

- 22. Stationary Combustion Turbines NESHAP:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines as specified in 40 CFR 63, Subpart YYYY.
- 23. Aerospace NESHAP:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants for Aerospace Manufacturing and Rework Facilities as specified in 40 CFR 63, Subpart GG.
- 24. Asbestos NESHAP:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants for Asbestos as specified in 40 CFR 61, Subpart M.
- 25. Site Remediation:** The Permittee shall comply with the National Emission Standards for Hazardous Air Pollutants for Site Remediation one megagram exemption record keeping requirements, as specified in 40 CFR 63, Subpart GGGGG.
- 26. Protection of Stratospheric Ozone:** The Permittee shall comply with the standards for recycling and emissions reduction of products using ozone depleting substances.

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.
- H.** Reporting of emissions of greenhouse gases: In accordance with CGS §22a-200b(e), the Permittee shall report greenhouse gas emissions to the commissioner in a format specified by the commissioner.

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-New England, Region 1; 5 Post Office Square, Suite 100; Boston, Massachusetts 02109-3912.

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

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

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

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

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

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

Title V Requirements

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).

Section VI: Title V Requirements

Title V Requirements

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

Section VI: Title V Requirements

Title V Requirements

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

Title V Requirements

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.