



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

**BUREAU OF AIR MANAGEMENT
TITLE V 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	097-0127-TV
Client/Sequence/Town/Premises Numbers	197/10/97/225
Date Issued	March 6, 2012
Expiration Date	March 6, 2017

Corporation:

Town of Manchester, Sanitation Division

Premises Location:

Manchester Landfill Premises, 1 Landfill Way, Manchester, CT 06040

Name of Responsible Official and Title:

Scott Shanley, General Manager

All the following attached pages, 2 through 53, are hereby incorporated by reference into this Title V permit.

Anne Gobin for
Daniel C. Esty
Commissioner

March 6, 2012
Date

TABLE OF CONTENTS

	PAGE
List of Abbreviations/Acronyms	4
Section I. Premises Information/Description	
A. Premises Information.....	5
B. Premises Description.....	5
Section II. Emissions Units Information	
A. Emissions Units Identification - Table II.A	6
B. Operating Scenario Identification - Table II.B	10
Section III. Applicable Requirements and Compliance Demonstration	
A. Emissions Unit 001 (EU-001) - Section III.A.....	11
B. Emissions Unit 051 (EU-051) - Section III.B.....	26
C. Emissions Unit 052 (EU-052) - Section III.C.....	29
D. Emissions Unit 053 (EU-053) - Section III.D.....	33
E. Grouped Emissions Unit 009 (GEU-009) - Section III.E	37
F. Grouped Emissions Unit 011 (GEU-011) - Section III.F	39
G. Grouped Emissions Unit 012 (GEU-012) - Section III.G	42
H. Premises-Wide General Requirements- Table III.H.....	44
Section IV. Compliance Schedule - Table IV	45
Section V. State Enforceable Terms and Conditions	46
Section VI. Title V Requirements	
A. Submittals to the Commissioner & Administrator.....	47
B. Certifications [RCSA §22a-174-33(b)].....	47
C. Signatory Responsibility [RCSA §22a-174-2a(a)]	48
D. Additional Information [RCSA §§22a-174-33(j)(1)(X), -33(h)(2)].....	48
E. Monitoring Reports [RCSA §22a-174-33(o)(1)]	49
F. Premises Records [RCSA §22a-174-33(o)(2)]	49
G. Progress Reports [RCSA §22a-174-33(q)(1)].....	50
H. Compliance Certifications [RCSA §22a-174-33(q)(2)].....	50
I. Permit Deviation Notifications [RCSA §22a-174-33(p)]	50
J. Permit Renewal [RCSA §22a-174-33(j)(1)(B)].....	50
K. Operate in Compliance [RCSA §22a-174-33(j)(1)(C)]	50
L. Compliance with Permit [RCSA §22a-174-33(j)(1)(G)]	51
M. Inspection to Determine Compliance [RCSA §22a-174-33(j)(1)(M)].....	51
N. Permit Availability.....	51
O. Severability Clause [RCSA §22a-174-33(j)(1)(R)]	51
P. Need to Halt or Reduce Activity [RCSA §22a-174-33(j)(1)(T)].....	51
Q. Permit Requirements [RCSA §22a-174-33(j)(1)(V)]	51
R. Property Rights [RCSA §22a-174-33(j)(1)(W)].....	52
S. Alternative Operating Scenario Records [RCSA §22a-174-33(o)(3)].....	52
T. Operational Flexibility and Off-Permit Changes [RCSA §22a-174-33(r)(2)]	52
U. Information for Notification [RCSA §22a-174-33(r)(2)(A)].....	52
V. Transfers [RCSA §22a-174-2a(g)]	53
W. Revocation [RCSA §22a-174-2a(h)]	53
X. Reopening for Cause [RCSA §22a-174-33(s)]	53
Y. Credible Evidence.....	53

Title V 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
acfm	Actual cubic feet per minute
AP-42	Compilation of Air Pollutant Emission Factors
btu	British Thermal Unit
cm	Centimeter
cm ²	Square Centimeters
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
DEEP	Department of Energy and Environmental Protection
EU	Emissions Unit
EPA	Environmental Protection Agency
ft	Feet
ft ³	Cubic Feet
GCCS	Gas Collection and Control System
GCOCS	Gas Collection and Odor Control System
HAP	Hazardous Air Pollutant
HP	Horsepower
hr	Hour
kW	Kilowatts
kPa	Kilopascals
lb	Pound
LFG	Landfill Gas
MASC	Maximum Allowable Stack Concentration
Mg	Megagrams
MMbtu	Million British Thermal Units
MMcf	Million Cubic Feet
mmHg	Millimeters of Mercury
N ₂	Nitrogen
NMOC	Non Methane Organic Compound
NO _x	Nitrogen Oxides
NSR	New Source Review
O ₂	Oxygen
PM ₁₀	Particulate Matter less than 10 microns
ppmv	Parts per Million, Volumetric
ppmvd	Parts per Million, Volumetric Dry Basis
PSI	Pounds per Square Inch
RCSA	Regulations of Connecticut State Agencies
RICE	Reciprocating Internal Combustion Engine
scf	Standard Cubic Feet
scfm	Standard Cubic Feet per Minute
sec	Seconds
SIC	Standard Industrial Classification Code
SO _x	Sulfur Dioxide
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Regional Bulky and Special Waste Landfill
Primary SIC: 4953

Facility Mailing Address: 41 Center Street, P.O. Box 191, Manchester, CT 06045-0191
Telephone Number: (860) 647-3047

B. PREMISES DESCRIPTION

The Town of Manchester, Sanitation Division (Manchester Landfill) owns and operates a regional bulky and special waste landfill. It is estimated that the Manchester Landfill has accepted waste, including municipal solid waste, since the 1950's. The landfill ceased acceptance of municipal solid waste on January 1, 2000. The landfill has a design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume. The wastes currently being disposed of at the landfill consist of commercial and residential construction debris, bulky waste, and certain Connecticut regulated special wastes.

Manchester Landfill has received a permit for a vertical expansion of the landfill. Because of this, the landfill is subject to 40 CFR Part 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills. Because the landfill has a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters, the landfill is subject to 40 CFR Part 70 or 71. Manchester Landfill is not otherwise subject to Part 70 or 71.

The landfill Non Methane Organic Compound (NMOC) generation rate is currently less than 50 megagrams per year and therefore a gas capture and control system (GCCS) is not required by 40 CFR Part 60 Subpart WWW. Manchester Landfill voluntarily installed a gas capture and odor control system (GCOCS) to control odors from the facility, but the system is not required to comply with the GCCS requirements in 40 CFR Part 60 Subpart WWW. The GCOCS is covered by permit no. 097-0114. The system originally consisted of 30 landfill gas (LFG) collection wells, lateral piping from the LFG collection wells to a main header, leachate discharge piping, condensate collection sumps, air pumps, discharge piping, a combined leachate/condensate pumping station and an enclosed flare. Changes to the existing system could occur based on the system's age, existing conditions at the landfill and any proposed closure design that occurs in the future.

The facility is a non-major source based on the site specific NMOC generation rate, emission estimates and major source thresholds. The premises is considered a Title V source pursuant to RCSA §22a-174-33(a)(10)(A).

Manchester Landfill operates 5 emergency engines under RCSA §22a-174-3b(e). Three emergency engines are subject to 40 CFR Part 63 Subpart ZZZZ and two are subject to 40 CFR Part 60 Subpart IIII. Manchester also operates three units as boilers subject to 40 CFR Part 63 Subpart JJJJJ.

The premises has multiple small fuel burning sources (natural gas, diesel, gasoline, propane) that do not trigger individual permitting requirements, cold cleaners subject to RCSA §22a-174-20(1), a Stage II fuel dispensing station, and other small miscellaneous sources not subject to individual permitting.

Section II: Emissions Units Information

A. EMISSIONS UNITS IDENTIFICATION

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

TABLE II.A: EMISSIONS UNITS IDENTIFICATION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
	EU-001	Municipal Solid Waste Landfill w/Gas Collection and Control System	Perennial Energy XLE Enclosed Landfill Flare	Permit No. 097-0114 40 CFR Part 60 Subpart WWW
	EU-051	2.00 MMbtu/hr Waukesha Dresser F2000/F1905CP, 125 kW, natural gas/digester gas emergency engine	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
	EU-052	6.072 MMbtu/hr Caterpillar 3412 600 kW diesel emergency engine	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
	EU-053	100 kW Fermont/White emergency generator	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
GEU-009	EU-074	Cold Cleaning 35 gallon sump	None	RCSA §22a-174-20(l)
	EU-075	Cold Cleaning 35 gallon sump, sink type		
	EU-076	Cold Cleaning sink type		
	EU-079	Cold Cleaning sink type		
GEU-011	EU-081	200 kW Cummins/Onan 200DSHAC diesel emergency generator	None	RCSA §22a-174-3b(e)
	EU-082	100 kW Cummins DSGAA diesel emergency generator		40 CFR Part 60 Subpart IIII
GEU-012	EU-048	0.3795 MMbtu/hr HB Smith No. 2 fuel oil boiler	None	40 CFR Part 63 Subpart JJJJJ
	EU-050	2.2 MMbtu/hr HB Smith Powerflame Burner, C2 CO-15HPS-5, No. 2 fuel oil/digester gas boiler		
	EU-084	0.24 MMbtu/hr Jenny powerwasher		

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS IDENTIFICATION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
<i>All applicable requirements for the following units are listed in the premises-wide general requirements portion of this Title V permit:</i>				
GEU-001	EU-002	1.638 MMbtu/hr HB Smith 2500-W-8 natural gas boiler	None	None
	EU-003	2.219 MMbtu/hr HB Smith J50A-15 natural gas boiler	None	None
	EU-004	0.35 MMbtu/hr Landa natural gas pressure washer	None	None
	EU-005	0.3 MMbtu/hr Sentry Slant FinSX1-180-DP, natural gas	None	None
GEU-002	EU-006	0.09625 MMbtu/hr Reznor SCE Model 125, natural gas	None	None
	EU-007	0.08 MMbtu/hr HB Smith BT-100-202, natural gas	None	None
	EU-008	0.21 MMbtu/hr Lemax Heater with pressure wash, natural gas	None	None
	EU-010	0.199 MMbtu/hr Universal Heater URNG 0701G, natural gas	None	None
	EU-011	0.175 MMbtu/hr Lenox Hanging Units, natural gas	None	None
	EU-012	0.175 MMbtu/hr Lenox Hanging Units, natural gas	None	None
	EU-013	0.175 MMbtu/hr Lenox Hanging Units, natural gas	None	None
	EU-014	0.175 MMbtu/hr Lenox Hanging Units, natural gas	None	None
	EU-015	0.15 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None
	EU-016	0.15 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None
	EU-019	0.13 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None
	EU-020	0.13 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None
	EU-021	0.075 MMbtu/hr Dayton Ceiling Hanging Unit, natural gas	None	None
	EU-022	0.075 MMbtu/hr Dayton Ceiling Hanging Unit, natural gas	None	None
	EU-023	0.175 MMbtu/hr HVAC Ceiling Hanging Unit, natural gas	None	None
	EU-024	0.13 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None
EU-025	0.13 MMbtu/hr Modine Ceiling Hanging Unit, natural gas	None	None	

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS IDENTIFICATION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
GEU-002	EU-026	0.20 MMbtu/hr Heil Heat/Cool Products, natural gas	None	None
	EU-027	0.06 MMbtu/hr AO Smith Burkay water heater, natural gas	None	None
	EU-028	0.250 MMbtu/hr Reznor Hanging Unit PGBL-800, natural gas	None	None
	EU-029	0.250 MMbtu/hr Reznor Hanging Unit PGBL-800, natural gas	None	None
	EU-030	0.250 MMbtu/hr Reznor Hanging Unit XE-250, natural gas	None	None
	EU-031	0.275 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-032	0.275 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-033	0.275 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-034	0.125 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-035	0.125 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-036	0.125 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-037	0.125 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-038	0.250 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-039	0.250 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-040	0.250 MMbtu/hr Hanging Unit, natural gas	None	None
	EU-041	0.250 MMbtu/hr Hanging Unit, natural gas	None	None
EU-042	0.12 MMbtu/hr AO Smith water heater, natural gas	None	None	
	EU-046	0.03 MMbtu/hr Dayton Hanging Unit 3E403A, liquid propane gas	None	None
	EU-049	3.32 MMbtu/hr HB Smith Powerflame Burner, C2-GG20, natural gas/digester gas boiler	None	None
GEU-006	EU-055	2,000 gallon above ground diesel storage tank	None	None
	EU-056	2,000 gallon above ground No. 2 fuel oil storage tank	None	None
	EU-057	10,000 gallon underground diesel storage tank	None	None
	EU-058	275 gallon interior diesel storage tank	None	None

Section II: Emissions Units Information

TABLE II.A: EMISSIONS UNITS IDENTIFICATION				
Grouped Emissions Unit	Emissions Unit	Emissions Unit Description	Control Unit Description	Permit or Regulation Number
GEU-006	EU-059	10,000 gallon underground diesel storage tank	None	None
	EU-060	1,000 gallon above ground waste oil storage tank	None	None
	EU-061	250 gallon above ground anti-freeze storage tank	None	None
	EU-062	250 gallon above ground diesel storage tank	None	None
	EU-063	275 gallon above ground No. 2 fuel oil storage tank	None	None
	EU-064	275 gallon above ground No. 2 fuel oil storage tank	None	None
	EU-083	400 gallon above ground diesel storage tank	None	None
	EU-067	Fuel pump, diesel	None	None
	EU-068	Fuel pump, diesel	None	None
GEU-008	EU-069	10,000 gallon underground gasoline storage tank	None	None
	EU-070	Fuel pump – Stage II, gasoline	None	None
	EU-072	Lime Silo Baghouse	None	None
	EU-073	Sewer Plant	None	None
	EU-077	Aerobic Digester Building Flare, Digester Gas	None	None
	EU-078	Various material piles (including but not limited to sand, rock, soil and salt)	None	None
GEU-010	EU-085	Contractor Temporary, Tub Grinder, various models	None	None
	EU-086	Contractor Temporary, Screener, various models	None	None
	EU-087	Contractor Temporary, Wood Shredder, various models	None	None
	EU-088	Contractor Temporary, Concrete Crushing, various models	None	None

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

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

TABLE II.B: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenario	Description of Scenario
EU-001 through EU-088, inclusive, as listed in Section II, Table II.A of this Title V permit.	Municipal Solid Waste Landfill w/Gas Collection and Control System and auxiliary equipment at the premises.

Section III: Applicable Requirements and Compliance Demonstration

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

A. EU-001 (Municipal Solid Waste Landfill w/Gas Collection and Control System)

1. Allowable Fuel Types

a. Limitation or Restriction

The allowable fuel types for EU-001 shall be limited to Landfill Gas or Waste Propane. LFG condensate and/or landfill leachate shall not be injected into the enclosed flare. [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall monitor the type of all fuels used. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall keep records of monthly and consecutive 12 month flare fuel consumption. The 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. [Permit No. 097-0114]

2. Maximum Fuel Firing Rate

a. Limitation or Restriction

The maximum fuel firing rate shall not exceed 567 scfm. [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall install, operate and routinely calibrate a device or devices, in accordance with manufacturer's recommendations, to continuously measure and monitor the volumetric flow of waste gas into this flare. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall maintain records of all GCOCS maintenance and calibration operations as detailed in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]

3. Maximum Annual Fuel Consumption

a. Limitation or Restriction

The maximum annual fuel consumption shall not exceed 298 MMcf over any consecutive 12 month period. [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. The Permittee shall install, operate and routinely calibrate a device or devices, in accordance with manufacturer's recommendations, to continuously measure and monitor the volumetric flow of waste gas into this flare. [Permit No. 097-0114]
- ii. The Permittee shall install and operate a device or devices to measure and monitor the number of hours of flare operation during each calendar month. [Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of all GCOCS maintenance and calibration operations as detailed in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]
- ii. The Permittee shall maintain a record of the number of hours of flare operation during each calendar month. Such records shall include the date of the recording period and the number of flare operating hours during each recording period. [Permit No. 097-0114]
- iii. The Permittee shall keep records of monthly and consecutive 12 month flare fuel consumption. The 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. [Permit No. 097-0114]

4. Fuel Filter Efficiency

a. Limitation or Restriction

Capture Efficiency: 100%

Removal Efficiency: at least 99.5% (> or = to 3 micrometers)

Overall Efficiency: at least 99.5% (> or = to 3 micrometers) [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall keep a record of the GCOCS manufacturer's and the enclosed flare manufacturer's specifications and recommendations along with a record of the fuel filter manufacturer's guaranteed efficiency. [RSCA §22a-174-33(j)(l)(K)(ii)]

5. Minimum Allowable Combustion Temperature

a. Limitation or Restriction

The minimum allowable combustion temperature shall not be less than 1400°F. (Only applies when the LFG has a heat input value to the enclosed flare of 2.0 MMBtu/hr or greater.) [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall record the date and length of operation where the flare operated with a heat input less than 2.0 MMBtu/hr. Such records shall include the calculation and basis used to determine the heat input rate. [Permit No. 097-0114]
- ii. The Permittee shall keep a record of the GCOCS manufacturer's and the enclosed flare manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

6. Minimum Residence Time

a. Limitation or Restriction

The minimum residence time shall not be less than 0.6 seconds. (Only applies when the LFG has a heat input value to the enclosed flare of 2.0 MMBtu/hr or greater.) [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall record the date and length of operation where the flare operated with a heat input less than 2.0 MMBtu/hr. Such records shall include the calculation and basis used to determine the heat input rate. [Permit No. 097-0114]
- ii. The Permittee shall keep a record of the GCOCS manufacturer's and the enclosed flare manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

7. Maximum Gross Heat Input

a. Limitation or Restriction

The maximum gross heat input shall not exceed 17.0 MMBtu/hr (at estimated LFG heat content of 500 btu/ft³) [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall keep a record of the GCOCS manufacturer's and the enclosed flare manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

8. Destruction Efficiency

a. Limitation or Restriction

- i. The minimum destruction efficiency shall not be less than 99% destruction of NMOC or an NMOC outlet concentration of 20 ppmvd as hexane at 3% oxygen. (Only applies when the LFG has a heat input value to the enclosed flare of 2.0 MMBtu/hr or greater.) [Permit No. 097-0114]
- ii. The minimum sulfur destruction efficiency shall not be less than 98% conversion of sulfur in the waste gas to sulfur oxides in the exhaust from the flare. (Only applies when the LFG has a heat input value to the enclosed flare of 2.0 MMBtu/hr or greater.) [Permit No. 097-0114]

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]
- ii. The Permittee shall maintain the integrity and collection efficiency of the LFG collection system. Such maintenance activities assuring the continued effectiveness of the LFG collection system shall be completed in a timely manner and shall include, but not be limited to, the following:
 - (A) repairing or replacing any damaged LFG well or other component of the LFG collection system on a schedule based on good engineering judgment for the control of odors from landfills. If a final landfill closure plan exists, the schedule shall be based in consideration of the final closure plan;
 - (B) modifying any LFG well or other component of the LFG collection system to assure its continued effectiveness on a schedule based on good engineering judgment for the control of odors from landfills. If a final landfill closure plan exists, the schedule shall be based in consideration of the final closure plan;
 - (C) providing reasonable safeguards to prevent damage to the LFG wells or other components of the LFG collection system; and
 - (D) accounting for the collection and control of additional LFG and odorous compounds (e.g. hydrogen sulfide) generated as a result of any future landfill expansion.
[Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of all GCOCS maintenance and calibration operations as detailed in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]
- ii. The Permittee shall keep a record of the GCOCS manufacturer's and the enclosed flare manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]
- iii. The Permittee shall maintain records of the most recent stack test required by Section III.A.18.b.iv of this Title V permit that demonstrated compliance with Section III.A.8.a of this Title V permit. [RCSA §22a-174-33(j)(l)(K)(ii)]
- iv. The Permittee shall record the date and length of operation where the flare operated with a heat input less than 2.0 MMBtu/hr. Such records shall include the calculation and basis used to determine the heat input rate. [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

9. Opacity

a. Limitation or Restriction

The Permittee shall operate the enclosed flare with no visible emissions except for periods not to exceed a total of five minutes during any two consecutive hours. [Permit No. 097-0114]

b. Monitoring Requirements

Upon request from the commissioner, the Permittee shall monitor visible emissions as determined by Reference Method 22, Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall maintain records of the opacity tests required in Section III.A.9.b of this Title V permit. Such records shall include the dates, times, and places of all visible emission observations, persons performing the observations, test methods used, the operating conditions at the time of observation, and the results of such observation. [RCSA §22a-174-4(d)(1)]

10. Flare Operation

a. Limitation or Restriction

The Permittee shall operate the enclosed flare with a flame present at all times except as required during maintenance. [Permit No. 097-0114]

b. Monitoring Requirements

The presence of a flare pilot flame shall be monitored by thermocouple or any other equivalent device to detect the presence of a flame. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall maintain records of all GCOCS maintenance and calibration operations as detailed in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]

11. Flare Operation

a. Limitation or Restriction

The Permittee shall operate the enclosed flare only when the methane content of the LFG equals or exceeds 30% by volume (i.e. 300 btu/scf) or the LFG flow equals or exceeds 300 scfm. [Permit No. 097-0114]

b. Monitoring Requirements

i. The Permittee shall install, operate and routinely calibrate a device or devices to continuously measure and monitor the volumetric flow of waste gas into this flare. [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

- ii. The Permittee shall monitor monthly the methane content in the LFG (by volume, %).
[RCSA §22a-174-33(j)(l)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain records of all GCOCS maintenance and calibration operations as detailed in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]
- ii. The Permittee shall keep records of the monitoring requirements required in Section III.A.11.b.ii of this Title V permit. Such records shall include the date of monitoring, the method used to determine methane content, and the measured methane content in the LFG (by volume, %).
[RCSA §22a-174-33(j)(l)(K)(ii)]

d. Reporting Requirements

In the event the enclosed flare is required to operate when the LFG does not meet the requirements in Section III.A.11.a of this Title V permit, the Permittee shall continue to operate the flare, as practicable, while the Permittee prepares and submits to the commissioner an evaluation of the continued viability of the flare to reliably operate and maintain reasonably high destruction efficiencies at low gas flows and/or low methane concentrations. [Permit No. 097-0114]

12. Wellhead Pressure

a. Limitation or Restriction

The Permittee shall ensure effective and safe operation of the LFG collection system and the system shall be operated with negative pressure at each wellhead except as provided in this Title V permit.
[Permit No. 097-0114]

b. Monitoring Requirements

- i. The Permittee shall monitor gauge pressure in the gas collection header at each individual well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedance within five calendar days, except under the following conditions:
 - (A) A fire or increased well temperature. (The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire);
 - (B) Use of a geomembrane or synthetic cover. (The owner or operator shall develop acceptable pressure limits in their Operations and Maintenance Plan);
 - (C) A decommissioned well. (A well may experience a static positive pressure after shut down to accommodate for declining flows).

If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure.

Section III: Applicable Requirements and Compliance Demonstration

If measured levels are due to declining flows, LFG quality, or GCOCS condition, then the well shall be decommissioned or the installation of a replacement well or header pipe will be performed on a schedule based on good engineering judgment for the control of odors from landfills. The Permittee shall notify the commissioner in writing, within 30 days of the initial reading of a measured level due to the factors above. If a final landfill closure plan exists, the schedule shall be based in consideration of the final closure plan. [Permit No. 097-0114]

- ii. The Permittee shall monitor LFG temperature, N₂ levels and O₂ levels at each wellhead to ensure LFG temperature is less than 55°C and N₂ levels are below 20% or O₂ levels are below 5%. Should the LFG temperature, N₂ level or O₂ level equal or exceed the limits above, action shall be initiated to correct the exceedance within five calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance.

If measured levels are due to declining flows, LFG quality, or GCOCS condition, then the well shall be decommissioned or the installation of a replacement well or header pipe will be performed on a schedule based on good engineering judgment for the control of odors from landfills. The Permittee shall notify the commissioner in writing, within 30 days of the initial reading of a measured level due to the factors above. If a final landfill closure plan exists, the schedule shall be based in consideration of the final closure plan. [Permit No. 097-0114]

- iii. The Permittee shall monitor landfill surface methane concentrations quarterly for all active portions of the landfill. Inactive portions of the landfill shall be monitored annually if initial methane concentration monitoring of the inactive areas indicates all corresponding methane levels are below 100 ppmv, above background.

The monitoring of landfill surface methane concentrations shall be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan shall be developed and kept on site that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

All locations exceeding 500 ppmv above background in any round of methane monitoring shall be increased to monthly monitoring. For such locations, the Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. Should the methane concentration at such location fall below 500 ppmv during subsequent monitoring, the frequency of monitoring shall revert to quarterly to coincide with the monitoring schedule for the remainder of the landfill.

If measured levels are due to declining flows, LFG quality, or GCOCS condition, then the well shall be decommissioned or the installation of a replacement well or header pipe will be performed on a schedule based on good engineering judgment for the control of odors from landfills. The Permittee shall notify the commissioner in writing, within ten days of the initial reading of a measured level due to the factors above. If a final landfill closure plan exists, the schedule shall be based in consideration of the final closure plan.

Upon completion of eight rounds of quarterly monitoring, the Permittee may request for a change in the frequency of monitoring. The reasonableness of such request shall be established by the following: site-specific landfill surface methane measurements during the first two years of quarterly monitoring, trends in methane concentrations during the two year period, monthly wellhead pressure measurements, and other test data or the correlation of test data the Permittee believes pertinent. Such request shall also incorporate the monitoring of locations of “elevated” methane concentrations

Section III: Applicable Requirements and Compliance Demonstration

at a greater frequency. Elevated can be interpreted as greater than 200 ppmv methane above background.

The Permittee shall not be required to conduct periodic methane landfill surface monitoring when the landfill is snow covered and required cover maintenance can be delayed by safety concerns due to weather conditions. [Permit No. 097-0114]

- iv. The Permittee shall promptly shutdown the GCOCS blower whenever the enclosed flare or other in place controls are inoperable. All valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour. [Permit No. 097-0114]

c. Record Keeping Requirements

The Permittee shall maintain records of all monitoring requirements in Section III.A.12.b of this Title V permit. [RCSA §22a-174-33(j)(l)(K)(ii)]

d. Reporting Requirements

The Permittee shall submit a report annually to the DEEP Compliance Assurance and Coordination Unit of the Bureau of Air Management detailing all exceedances of operational conditions monitored pursuant to Section III.A.12.b.i through iii, inclusive, of this Title V permit. Such report shall include the remedial action taken by the Permittee. The report shall be submitted no later than May 1 of each calendar year. [Permit No. 097-0114]

13. Flare Personnel Training & Operation

a. Limitation or Restriction

The Permittee shall train all flare operating personnel annually on the operation of the flare according to the manufacturer's operating procedures and troubleshooting techniques. [Permit No. 097-0114]

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]
- ii. The Permittee shall annually train all personnel responsible for operating the flare in accordance with the manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain a record of all personnel trained in the operation of the flare. Such record shall include the date of the last training and the person's full name. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall keep a record of the enclosed flare manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

14. GCOCS Personnel Training & Operation

a. Limitation or Restriction

The Permittee shall ensure the GCOCS be operated and maintained only by personnel properly trained in its operation. [Permit No. 097-0114]

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the enclosed flare and GCOCS in accordance with the manufacturer's specifications and written recommendations. [Permit No. 097-0114]
- ii. The Permittee shall annually train all personnel responsible for operating the GCOCS in accordance with the manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain a record of all personnel trained in the operation of the GCOCS. Such record shall include the date of the last training and the person's full name. [RCSA §22a-174-33(j)(l)(K)(ii)]
- ii. The Permittee shall keep a record of the GCOCS manufacturer's specifications and recommendations. [RCSA §22a-174-33(j)(l)(K)(ii)]

15. Landfill NMOC Maximum Allowable Production

a. Limitation or Restriction

Landfill NMOC maximum allowable production (VOC as NMOC) shall not exceed 24.2 tpy and 22.0 Mg/yr. [Permit No. 097-0114]

b. Monitoring Requirements

- i. The Permittee shall recalculate the NMOC emission rate annually using the procedure in Section III.A.15.b.ii of this Title V permit until the landfill is closed to demonstrate compliance with 40 CFR §60.752(b)(1) only. [40 CFR §60.752(b)(1)(ii)]
- ii. The Permittee shall calculate the NMOC emission rate using either the Equation 1 or Equation 2 below to demonstrate compliance with 40 CFR §60.752(b)(1) only. Both equations may be used if the actual year-to-year solid waste acceptance rate is known, as specified in Equation 1, for part of the life of the landfill and the actual year-to-year solid waste acceptance rate is unknown, as specified in Equation 2, for part of the life of the landfill.

(A) Equation 1

The following equation shall be used if the actual year-to-year solid waste acceptance is known:

$$M_{\text{NMOC}} = \sum_{i=1}^n 2 \cdot k \cdot L_o \cdot M_i \cdot (e^{-kt_i}) \cdot (C_{\text{NMOC}}) \cdot (3.6 \times 10^{-9})$$

Section III: Applicable Requirements and Compliance Demonstration

where,

M_{NMOC} = Total NMOC emission rate from the landfill, megagrams per year

k = methane generation rate constant = 0.05 year⁻¹ or site specific as determined by 40 CFR §60.754(a)(4)

L_o = methane generation potential = 170 cubic meters per megagram solid waste

M_i = mass of solid waste in the i^{th} section, megagrams

t_i = age of the i^{th} section, years

C_{NMOC} = concentration of NMOC = 4,000 parts per million by volume as hexane or site specific as determined by 40 CFR §60.754(a)(3)

3.6×10^{-9} = conversion factor

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i , if documentation of the nature and amount of such wastes is maintained.

(B) Equation 2

The following equation shall be used if the actual year-to-year solid waste acceptance is unknown:

$$M_{\text{NMOC}} = 2 \cdot L_o \cdot R \cdot (e^{-kc} - e^{-kt}) \cdot (C_{\text{NMOC}}) \cdot (3.6 \times 10^{-9})$$

where,

M_{NMOC} = Total NMOC emission rate from the landfill, megagrams per year

k = methane generation rate constant = 0.05 year⁻¹ or site specific as determined by 40 CFR §60.754(a)(4)

L_o = methane generation potential = 170 cubic meters per megagram solid waste

R = average annual acceptance rate, megagrams per year

c = time since closure, years; for active landfill, $c = 0$ and $e^{-kc} = 1$

t = age of the landfill, years

C_{NMOC} = concentration of NMOC = 4,000 parts per million by volume as hexane or site specific as determined by 40 CFR §60.754(a)(3)

3.6×10^{-9} = conversion factor

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value of R , if documentation of the nature and amount of such wastes is maintained. [40 CFR §60.754(a)(1)]

- iii. The Permittee shall conduct site-specific NMOC concentration testing every five years using the methods in 40 CFR §60.754(a)(3). For this active landfill, samples may be collected from the common header pipe before the gas moving or condensate removal equipment. A minimum of three samples shall be collected from the header pipe. The next test shall be performed by March 28, 2016.

The Permittee shall then recalculate the NMOC mass emission rate using the equations in Section III.A.15.b.ii using the average NMOC concentration from the collected samples instead of the default value in the aforementioned equations.

Section III: Applicable Requirements and Compliance Demonstration

If the resulting mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the emission rate report as provided in Section III.A.15.d.i of this Title V permit.

If the resulting mass emission rate calculated using the site-specific NMOC concentration is equal to or greater than 50 megagrams per year, then the Permittee shall either comply with 40 CFR §60.752(b)(2), or determine the site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the procedure specified in 40 CFR §60.754(a)(4). [40 CFR §60.754(a)(3)]

- iv. Demonstrations of compliance with Section III.A.15.a of this Title V permit may be met by calculating the emission rates using emission factors from the sources noted below:

- (A) Initial Compliance Demonstration Test Data;
- (B) Manufacturer's Emissions Data; and
- (C) AP-42, Fifth Edition, Section 13.5. [Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12 month criteria pollutant emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 097-0114]
- ii. The Permittee shall keep for at least five years up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 CFR §60.752(b), the current amount of solid waste in place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four hours. Either paper copy or electronic formats are acceptable. [40 CFR §60.758(a)]
- iii. If the Permittee converts design capacity from volume to mass or mass to volume to demonstrate the landfill design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, as provided in the definition of "design capacity", the Permittee shall keep readily accessible, on-site records of the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within four hours. Either paper copy or electronic formats are acceptable. [40 CFR §60.758(f)]

d. Reporting Requirements

- i. The landfill owner shall submit an annual NMOC emission rate report calculated using the formula and procedures provided in Section III.A.15.b.ii of this Title V permit. If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 megagrams per year in each of the next five consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next five year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised every five years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five year estimate, a revised five year estimate shall be submitted to the

Section III: Applicable Requirements and Compliance Demonstration

Administrator. The revised estimate shall cover the five year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.
[40 CFR §60.757(b)(1)]

- ii. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or five year emissions. [40 CFR §60.757(b)(2)]
- iii. If the landfill is permanently closed, a closure notification shall be submitted to the Administrator as provided for in 40 CFR §60.757(d). [40 CFR §60.752(b)(1)(ii)(B)]

16. Premises Operation

a. *Limitation or Restriction*

The Permittee shall restrict the public from uncontrolled access to any location on the premise/landfill.
[Permit No. 097-0114]

b. *Monitoring Requirements*

The Permittee shall monitor public access to the premises to ensure that public visitors do not have unrestricted access to the premises. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. *Record Keeping Requirements*

The Permittee shall maintain a log of public visitors to the premises to ensure compliance with Section III.A.16.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)(ii)]

17. GCOCS Criteria Pollutants, Landfill Fugitive Dust, and HAP Maximum Allowable Emissions

a. *Limitation or Restriction*

- i. Emissions shall not exceed:

<u>Pollutant</u>	<u>lb/hr</u>	<u>tpy</u>
TSP	0.95	4.2
PM ₁₀	0.95	4.2
SO _x	3.40	14.9
NO _x	0.94	4.1
VOC as NMOC		
(≥2.0 MMBtu/hr heat input to flare)	0.054	--
(<2.0 MMBtu/hr heat input to flare)	1.04	--
(total)	--	4.6
CO	1.33	5.8

[Permit No. 097-0114]

- ii. The Permittee shall not violate or significantly contribute to the violation of any applicable state requirement for the control of fugitive dust emissions and take reasonable precautions to prevent particulate matter from becoming airborne, as set forth in RCSA §22a-174-18.
[State-Only Requirement] [Permit No. 097-0114]
- iii. The Permittee shall not exceed MASC for any HAP listed in RCSA §22a-174-29.
[State-Only Requirement] [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. The Permittee shall operate this source and premises at all times in a manner so as not to violate or significantly contribute to the violation of any applicable state requirements for the control of fugitive particulate matter emissions and take reasonable precautions to prevent particulate matter from becoming airborne, as set forth in RCSA §22a-174-18(c). [Permit No. 097-0114]
- ii. Demonstrations of compliance with Section III.A.17.a of this Title V permit may be met by calculating the emission rates using emission factors from the sources noted below:
 - (A) Initial Compliance Demonstration Test Data;
 - (B) Manufacturer's Emissions Data;
 - (C) AP-42, Fifth Edition, Section 13.5; and
 - (D) SO_x emissions based on 98% overall oxidation of sulfur compounds contained in the waste gas and 98% overall oxidation of reduced sulfur to oxides of sulfur. [Permit No. 097-0114]
- iii. The Permittee shall monitor emissions from the enclosed flare to ensure that emissions do not exceed the MASC for any HAP listed in RCSA §22a-174-29. [State-Only Requirement] [Permit No. 097-0114]
- iv. Source testing shall be required for the following pollutant(s): SO_x, VOC (as NMOC) and the following HAPs:

acetone	ethanol
acrylonitrile	ethyl mercaptan
benzene	ethylbenzene
bromodichloromethane	ethylene dibromide
butane	fluorotrichloromethane
carbon disulfide	hexane
carbon tetrachloride	hydrogen sulfide
carbonyl sulfide	mercury
chlorobenzene	methyl ethyl ketone
chlorodifluoromethane	methyl iso-butyl ketone
chloroethane	methyl mercaptan
chloroform	pentane
chloromethane	propane
dichlorobenzenes	2-propanol
dichlorodifluoromethane	propylene dichloride
1,1-dichloroethane	tetrachloroethylene
1,2-dichloroethane	1,1,2,2-tetrachloroethane
1,1-dichloroethene	toluene
trans 1,2-dichloroethene	1,1,1-trichloroethane
dichlorofluoromethane	1,1,2-trichloroethane
dichloromethane	trichloroethylene
dimethylsulfide	vinyl chloride
ethane	xylenes

Section III: Applicable Requirements and Compliance Demonstration

The Permittee shall conduct source testing, for the above pollutants, within 180 days of completion of the expansion of the well field and after final landfill closure or landfill reaches final grade, into the area outside of the zone of influence of the LFG collection system as tested in June of 2001 and for which a compliance demonstration has already been made. Stack testing shall be performed in accordance with the latest Emission Test Guidelines available on the DEEP website.

The following site-specific testing and compliance demonstrations shall also be required:

(A) LFG Re-Characterization

- (1) Re-characterization of LFG with respect to total reduced sulfur, NMOC, methane, oxygen, nitrogen, and HAPs common to municipal solid waste landfills;
- (2) Re-assessment of total LFG production rate and re-measurement of GCOCS LFG collection rate (scfm); and
- (3) The Permittee shall ensure at least 90% of the wells in the GCOCS network are fully operational 24 hours prior to the initiation of LFG characterization. The Permittee shall demonstrate compliance with annual emission limitations set forth in Section III.A.17.a.i of this Title V permit for SO_x and VOC (as NMOC), and MASC compliance for HAPs based upon the re-characterization of the LFG and the demonstrated destruction efficiency of 99% for VOCs and 98% conversion of reduced sulfur to SO_x.

(B) Gas Collection System Capture Efficiency

The Permittee shall re-assess the capture efficiency of the LFG collection system employing the modeled total LFG production determination and the re-measured LFG collection rate.
[Permit No. 097-0114]

- v. The Permittee shall submit a test protocol to the DEEP stack test group 30 days prior to the installation of any LFG well(s) outside of the zone of influence of the current LFG network for the purposes of demonstrating continued compliance with RCSA §22a-174-29. The zone of influence shall be considered to be no more than 150 feet from the nearest wellhead in the current LFG network. Stack testing shall be performed in accordance with the latest Emission Test Guidelines available on the DEEP website. [Permit No. 097-0114]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12 month flare fuel consumption. The 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. [Permit No. 097-0114]
- ii. The Permittee shall record the number of hours of flare operation during each calendar month. Such records shall include the date of the recording period and the number of flare operating hours during each recording period. [Permit No. 097-0114]
- iii. The Permittee shall calculate and record the monthly and consecutive 12 month criteria pollutant emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month. [Permit No. 097-0114]

Section III: Applicable Requirements and Compliance Demonstration

- iv. The Permittee shall record the date and length of operation where the flare operated with a heat input less than 2.0 MMBtu/hr. Such records shall include the calculation and basis used to determine the heat input rate. [Permit No. 097-0114]
- v. The Permittee shall maintain records of the calculations used in order to demonstrate compliance with Section III.A.17.a of this Title V permit. [RCSA §22a-174-33(j)(l)(K)(ii)]
- vi. The Permittee shall maintain a complete record of all testing conducted as well as any periodic testing required in the facility's amended Operations and Maintenance Plan. [Permit No. 097-0114]

18. Stack Parameters

a. Limitation or Restriction

Minimum Stack Height: 30.6 ft

Maximum Exhaust Gas Flow Rate: 35,256 acfm

Minimum Distance from Stack to Property Line: 1,512 ft [Permit No. 097-0114]

b. Monitoring Requirements

The Permittee shall monitor the stack parameters specified in Section III.A.18.a of this Title V permit to ensure compliance with those limits. [RCSA §22a-174-33(j)(l)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records of the current stack height, manufacturer's documentation or stack test data demonstrating compliance with the maximum stack exhaust flow rate and a site map, with a scale, showing the location of the stack in relation to the nearest property line.
[RCSA §22a-174-33(j)(l)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

B. EU-051 (2.00 MMbtu/hr Waukesha Dresser F2000/F1905CP, 125 kW, natural gas/digester gas emergency engine)

1. Maximum Operating Hours

a. Limitation or Restriction

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

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

2. HAP [Federal]

The Permittee shall comply with Section III.B.2 of this Title V permit and any other applicable requirements of 40 CFR Part 63 Subpart ZZZZ by October 19, 2013. (Engine Classification: Existing Emergency Spark Ignition RICE less than 500 HP constructed before June 12, 2006 at an area source)

a. Limitation or Restriction

i. The Permittee shall:

- (A) Change the oil and filter every 500 hours of operation or annually, whichever comes first;
- (B) Inspect the spark plugs every 1,000 hours of operation or annually, whichever comes first; and
- (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR §63.6603(a)]

ii. The Permittee shall comply with the following limitation on hours of operation:

- (A) There is no time limit on the use of emergency stationary RICE in emergency situations, except as limited by Section III.B.1.a of this Title V permit;
- (B) The Permittee may operate the emergency stationary RICE 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, except as limited by Section III.B.1.a of this Title V permit. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year; and

Section III: Applicable Requirements and Compliance Demonstration

(C) The Permittee may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, except as limited by Section III.B.1.a of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that the Permittee may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level, except as limited by Section III.B.1.a of this Title V permit. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation shall be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations, except as limited by Section III.B.1.a of this Title V permit. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power. [40 CFR §§63.6640(f)(1)(i) through (iii)]

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall 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)]
- ii. The Permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR §63.6625(f)]
- iii. During periods of startup, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- iv. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Section III.B.2.a.i of this Title V permit. The oil analysis shall be performed at the same frequency specified for changing the oil in Section III.B.2.a.i of this Title V permit. The analysis program shall at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the engine Permittee shall change the oil within two days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine Permittee shall change the oil within two days or before commencing operation, whichever is later. The Permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. [40 CFR §63.6625(j)]

Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall demonstrate continuous compliance with the operating limitations in Section III.B.2.a of this Title V permit by following all applicable requirements in 40 CFR §63.6640. [40 CFR §63.6640]

c. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
- iii. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), 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)]
- iv. The Permittee shall keep records demonstrating compliance with Section III.B.2.b.i of this Title V permit. [40 CFR §63.6655(d)]
- v. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the Permittee operated and maintained the engine according to the Permittee's own maintenance plan. [40 CFR §63.6655(e)]
- vi. The Permittee shall 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 operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

d. Reporting Requirements

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Section III.B.2.a of this Title V permit, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management 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. The Permittee shall report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

Section III: Applicable Requirements and Compliance Demonstration

C. EU-052 (6.072 MMbtu/hr Caterpillar 3412 600 kW diesel emergency engine)

1. Maximum Operating Hours

a. Limitation or Restriction

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

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

2. Maximum Fuel Sulfur Content

a. Limitation or Restriction

The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by EU-052. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

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

Section III: Applicable Requirements and Compliance Demonstration

3. HAP [Federal]

The Permittee shall comply with Section III.C.3 of this Title V permit and any other applicable requirements of 40 CFR Part 63 Subpart ZZZZ by May 3, 2013. (Engine Classification: Existing Emergency Compression Ignition RICE greater than 500 HP constructed before June 12, 2006 at an area source)

a. Limitation or Restriction

i. The Permittee shall:

- (A) Change the oil and filter every 500 hours of operation or annually, whichever comes first;
- (B) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary. [40 CFR §63.6603(a)]

ii. The Permittee shall comply with the following limitation on hours of operation:

- (A) There is no time limit on the use of emergency stationary RICE in emergency situations, except as limited by Section III.C.1.a of this Title V permit;
- (B) The Permittee may operate the emergency stationary RICE 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, except as limited by Section III.C.1.a of this Title V permit. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year; and
- (C) The Permittee may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, except as limited by Section III.C.1.a of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that the Permittee may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level, except as limited by Section III.C.1.a of this Title V permit. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation shall be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations, except as limited by Section III.C.1.a of this Title V permit. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power. [40 CFR §§63.6640(f)(1)(i) through (iii)]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall 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)]
- ii. The Permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR §63.6625(f)]
- iii. During periods of startup, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- iv. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Section III.C.3.a.i of this Title V permit. The oil analysis shall be performed at the same frequency specified for changing the oil in Section III.C.3.a.i of this Title V permit. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within two days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within two days or before commencing operation, whichever is later. The Permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine. [40 CFR §63.6625(i)]
- v. The Permittee shall demonstrate continuous compliance with the operating limitations in Section III.C.3.a of this Title V permit by following all applicable requirements in 40 CFR §63.6640. [40 CFR §63.6640]

Section III: Applicable Requirements and Compliance Demonstration

c. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
- iii. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), 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)]
- iv. The Permittee shall keep records demonstrating compliance with Section III.C.3.b.i of this Title V permit. [40 CFR §63.6655(d)]
- v. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the Permittee operated and maintained the engine according to the Permittee's own maintenance plan. [40 CFR §63.6655(e)]
- vi. The Permittee shall 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 operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

d. Reporting Requirements

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Section III.C.3.a of this Title V permit, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management 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. The Permittee shall report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

Section III: Applicable Requirements and Compliance Demonstration

D. EU-053 (100 kW Fermont/White Emergency Generator)

1. Maximum Operating Hours

a. Limitation or Restriction

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

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

2. Maximum Fuel Sulfur Content

a. Limitation or Restriction

The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by EU-053. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring Requirements

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

c. Record Keeping Requirements

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

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

Section III: Applicable Requirements and Compliance Demonstration

3. HAP [Federal]

The Permittee shall comply with Section III.D.3 of this Title V permit and any other applicable requirements of 40 CFR Part 63 Subpart ZZZZ by May 3, 2013. (Engine Classification: Existing Emergency Compression Ignition RICE less than 500 HP constructed before June 12, 2006 at an area source)

a. *Limitation or Restriction*

i. The Permittee shall:

- (A) Change the oil and filter every 500 hours of operation or annually, whichever comes first;
- (B) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- (C) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary. [40 CFR §63.6603(a)]

ii. The Permittee shall comply with the following limitation on hours of operation:

- (A) There is no time limit on the use of emergency stationary RICE in emergency situations, except as limited by Section III.D.1.a of this Title V permit;
- (B) The Permittee may operate the emergency stationary RICE 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, except as limited by Section III.D.1.a of this Title V permit. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year; and
- (C) The Permittee may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, except as limited by Section III.D.1.a of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that the Permittee may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level, except as limited by Section III.D.1.a of this Title V permit. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation shall be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations, except as limited by Section III.D.1.a of this Title V permit. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power. [40 CFR §§63.6640(f)(1)(i) through (iii)]

Section III: Applicable Requirements and Compliance Demonstration

b. Monitoring Requirements

- i. The Permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall 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)]
- ii. The Permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR §63.6625(f)]
- iii. During periods of startup, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
- iv. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Section III.D.3.a.i of this Title V permit. The oil analysis shall be performed at the same frequency specified for changing the oil in Section III.D.3.a.i of this Title V permit. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within two days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within two days or before commencing operation, whichever is later. The Permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine. [40 CFR §63.6625(i)]
- v. The Permittee shall demonstrate continuous compliance with the operating limitations in Section III.D.3.a of this Title V permit by following all applicable requirements in 40 CFR §63.6640. [40 CFR §63.6640]

c. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that was submitted to comply with 40 CFR Part 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv). [40 CFR §63.6655(a)(1)]
- ii. The Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [40 CFR §63.6655(a)(2)]
- iii. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), 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)]
- iv. The Permittee shall keep records demonstrating compliance with Section III.D.3.b.i of this Title V permit. [40 CFR §63.6655(d)]

Section III: Applicable Requirements and Compliance Demonstration

- v. The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the Permittee operated and maintained the engine according to the Permittee's own maintenance plan. [40 CFR §63.6655(e)]
- vi. The Permittee shall 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 operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation. [40 CFR §63.6655(f)]

d. Reporting Requirements

If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Section III.D.3.a of this Title V permit, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management 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. The Permittee shall report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote 2]

Section III: Applicable Requirements and Compliance Demonstration

E. GEU-009 (Cold Cleaners, EU-074, -075, -076, -079)

1. Operational Conditions

a. Limitation or Restriction

- i. Equip the cleaning device with a cover that is easily operated with one hand. [RCSA §22a-174-20(1)(3)(A)]
- ii. Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system. [RCSA §22a-174-20(1)(3)(B)]
- iii. Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(1)(3)(C)]
- iv. Close the cover if parts are not being handled in the cleaner for two minutes or more, or if the device is not in use. [RCSA §22a-174-20(1)(3)(D)]
- v. Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA §22a-174-20(1)(3)(E)]
- vi. If a degreasing solvent spray is used:
 - (A) Supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray);
 - (B) maintain a solvent spray pressure that does not exceed ten pounds per square inch as measured at the pump outlet; and
 - (C) perform spraying within the confines of the cold cleaning unit. [RCSA §22a-174-20(1)(3)(F)]
- vii. Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip. [RCSA §22a-174-20(1)(3)(G)]
- viii. Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. Any leaked solvent or solvent spilled during transfer shall be cleaned immediately, and the wipe rags or other sorbent material used to clean the spilled or leaked solvent shall be immediately stored in covered containers for disposal or recycling. [RCSA §22a-174-20(1)(3)(H)]
- ix. Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements. [RCSA §22a-174-20(1)(3)(I)]
- x. On or after May 1, 2008, use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. [RCSA §22a-174-20(1)(3)(K)]

Section III: Applicable Requirements and Compliance Demonstration

- xi. Shall not clean sponges, fabric, wood, leather, paper and other absorbent material in a cold cleaning machine. [RCSA §22a-174-20(1)(3)(L)]

b. Monitoring Requirements

The Permittee shall monitor the operation of all cold cleaning units to ensure proper operation in accordance with Section III.E.1.a of this Title V permit. [RSCA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall maintain appropriate records indicating compliance with Section III.E.1.a of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations and internal operating procedures. [RSCA §22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee shall maintain records of the following information:
 - (A) The type of solvent used, including a description of the solvent and the solvent name;
 - (B) The vapor pressure of the solvent in mmHg measured at 20°C (68°F);
 - (C) The percent VOC content by weight; and
 - (D) The amount of solvent added to each unit on a monthly basis. [RCSA §22a-174-20(1)(3)(K)]
- iii. The commissioner may deem a cold cleaning unit in compliance with the requirements of Section III.E.1.a.i, ii and iv of this Title V permit, notwithstanding that such unit is uncovered, if the Permittee submits written documentation to the commissioner's satisfaction demonstrating such unit provides equal or better control of volatile organic compound emissions than a similar cold cleaning unit meeting such requirements. The written documentation shall include information demonstrating compliance with the following criteria:
 - (A) The cold cleaner shall have a remote solvent reservoir;
 - (B) On or prior to April 30, 2008, the solvent used in the cold cleaner shall not have a vapor pressure that exceeds 4.3kPa (33mmHg or 0.6 PSI) measured at 38°C (100°F) or be heated above 50°C (120°F);
 - (C) The sink-like work area shall have an open drain area less than 100 cm²; and
 - (D) Evidence is provided that waste solvent will be stored or properly disposed of with minimal loss due to evaporation. [RCSA §22a-174-20(1)(6)]

Section III: Applicable Requirements and Compliance Demonstration

F. GEU-011 (Emergency Engines, EU-081, -082)

1. Maximum Operating Hours

a. Limitation or Restriction

The Permittee shall not operate any engine in GEU-011 greater than 300 hours during any 12 month rolling aggregate and the engines shall be operated only during periods of testing and scheduled maintenance or during an emergency as defined in RCSA §22a-174-22. [RCSA §22a-174-3b(e)(2)(C)]

b. Monitoring Requirements

The Permittee shall monitor hours of operation for each engine in GEU-011 on a monthly basis. [RCSA §22a-174-3b(e)(4)]

c. Record Keeping Requirements

The Permittee shall maintain records of hours of operation for each engine in GEU-011 on a monthly basis and a 12 month rolling aggregate. Maximum annual operating hours shall be based on any consecutive 12 month time period and shall be determined by adding each month's operating hours to that of the previous 11 months for each engine in GEU-011. [RCSA §22a-174-3b(e)(4)]

2. Maximum Fuel Sulfur Content

a. Limitation or Restriction

The Permittee shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined as in RCSA §22a-174-42 for any non-gaseous fuel consumed by any engine in GEU-011. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring Requirements

The Permittee shall monitor the sulfur content for the fuel burned for each engine in GEU-011 on a monthly basis. [RCSA §22a-174-3b(e)(3)]

c. Record Keeping Requirements

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

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

Section III: Applicable Requirements and Compliance Demonstration

3. 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [Federal]

(Engine Classification: Emergency Compression Ignition Engine constructed after June 12, 2006)

a. *Limitation or Restriction*

The Permittee shall comply with the emission standards for new nonroad compression ignition engines in 40 CFR §60.4202, for all pollutants, for the same model year and maximum engine power for each engine in GEU-011. [40 CFR §60.4205(b)]

b. *Operating Requirements*

- i. The Permittee shall operate and maintain each engine in GEU-011 to achieve the emission standards as required in 40 CFR §60.4205 over the entire life of the engine. [40 CFR §60.4206]
- ii. The Permittee shall purchase diesel fuel that meets the requirements of 40 CFR §80.510(b) for nonroad diesel fuel. [40 CFR §60.4207(b)]
- iii. The Permittee shall do all of the following, except as permitted under Section III.F.3.b.vi of this Title V permit:
 - (A) Operate and maintain the stationary combustion ignition internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (B) Change only those emission-related settings that are permitted by the manufacturer; and
 - (C) Meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply. [40 CFR §60.4211(a)]
- iv. The Permittee shall ensure each engine in GEU-011 is certified to the emission standards in 40 CFR §60.4205(b) for the same model year and maximum engine power. The engines shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Section III.F.3.b.vi of this Title V permit. [40 CFR §60.4211(c)]
- v. The Permittee may operate each engine in GEU-011 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, except as limited by Section III.F.1.a of this Title V permit. There is no time limit on the use of emergency stationary ICE in emergency situations, except as limited by Section III.F.1.a of this Title V permit. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, except as limited by Section III.F.1.a of this Title V permit. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, except as limited by Section III.F.1.a of this Title V permit, is prohibited. [40 CFR §60.4211(f)]

Section III: Applicable Requirements and Compliance Demonstration

- vi. If the Permittee does not install, configure, operate, and maintain the engines in GEU-011 and control devices (if installed) according to the manufacturer's emission-related written instructions, or the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after the Permittee changes emission-related settings in a way that is not permitted by the manufacturer. [40 CFR §60.4211(g)(2)]

c. Monitoring Requirements

- i. If the Permittee conducts performance tests pursuant to 40 CFR Part 60 Subpart IIII for engines in GEU-011, the Permittee shall do so according to 40 CFR 60 §§60.4212(a) through (e), inclusive. [40 CFR §60.4212]
- ii. The Permittee shall comply with all monitoring and testing requirements of the General Provisions in 40 CFR §60.1 through §60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

d. Record Keeping Requirements

- i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §60.1 through §60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]
- ii. The Permittee shall maintain appropriate records indicating compliance with the emission limitation and operational requirements in Sections III.F.3.a and b of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations, purchase records and internal operating procedures. [RSCA §22a-174-33(j)(1)(K)(ii)]

e. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §60.1 through §60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

Section III: Applicable Requirements and Compliance Demonstration

G. GEU-012 (No.2 Fuel Oil Boilers, EU-048, -050, -084)

1. HAP [Federal]

The Permittee shall comply with Section III.G.1 of this Title V permit and any other applicable requirements of 40 CFR Part 63 Subpart JJJJJ by the dates contained within. (Boiler Classification: Existing small boiler less than 10 MMBtu/hr constructed before June 4, 2010)

a. Limitation or Restriction

The Permittee shall conduct a biennial performance tune-up according to 40 CFR §63.11223(b). Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. The Permittee shall achieve compliance with this standard no later than the compliance date specified in 40 CFR §63.11196(a)(1).
[40 CFR §63.11201; 40 CFR Part 63 Subpart JJJJJ, Table 2; 40 CFR §63.11196(a)(1)]

b. Monitoring Requirements

At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by 40 CFR Part 63 Subpart JJJJJ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.11205(a)]

c. Record Keeping Requirements

- i. The Permittee shall keep a copy of each notification and report that is submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, as required in §63.10(b)(2)(xiv). [40 CFR §63.11225(c)(1)]
- ii. The Permittee shall keep records that identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. [40 CFR §63.11225(c)(2)(i)]
- iii. The Permittee shall keep records documenting the fuel type(s) used monthly by each boiler, including, but not limited to, a description of the fuel, including whether the fuel has received a non-waste determination by the Permittee or EPA, and the total fuel usage amount with units of measure. [40 CFR §63.11225(c)(2)(ii)]
- iv. The Permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. [40 CFR §63.11225(c)(4)]
- v. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR §63.11225(c)(5)]

Section III: Applicable Requirements and Compliance Demonstration

d. Reporting Requirements

- i. The Permittee shall submit a Notification of Compliance Status to the delegated authority in accordance with 40 CFR §63.9(h) no later than 120 days after the compliance date specified in 40 CFR §63.11196(a)(1). In addition to the information required in 40 CFR §63.9(h)(2), the notification shall include the following certification of compliance and be signed by a responsible official: “This facility complies with the requirements in 40 CFR §63.11214 to conduct an initial tune-up of the boiler.” [40 CFR §63.11214(a); 40 CFR §63.11225(a)(4)]
- ii. The Permittee shall prepare and submit to the delegated authority upon request, a biennial compliance report, on March 1 of every other year, which includes the following information:
 - (A) Company name and address;
 - (B) Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63 Subpart JJJJJ; and
 - (C) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. [40 CFR §63.11225(b)]
- iii. If the Permittee intends to commence or recommence combustion of solid waste, the Permittee shall provide 30 days prior notice of the date upon which the Permittee will commence or recommence combustion of solid waste. The notification shall include the information in 40 CFR §§63.11225(f)(1) through (4). [40 CFR §63.11225(f)]
- iv. If the Permittee intends to switch fuels, and this fuel switch may result in the applicability of a different subcategory or a switch out of 40 CFR Part 63 Subpart JJJJJ due to a switch to 100 percent natural gas, the Permittee shall provide 30 days prior notice of the date upon which the Permittee will switch fuels. The notification shall include the information in 40 CFR §§63.11225(g)(1) through (4). [40 CFR §63.11225(g)]

Section III: Applicable Requirements and Compliance Demonstration

H. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.H: Premises-Wide General Requirements	
1.	Annual Emission Statements: The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
2.	Emission Test: The Permittee shall comply with any emission test required by this Title V permit, which shall be conducted in accordance with the procedure as specified in RCSA §22a-174-5.
3.	Emergency Episode Procedures: The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
4.	Reporting of Malfunctioning Control Equipment: The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
5.	Prohibition of Air Pollution: The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
6.	Public Availability of Information: The public availability of information shall apply, as set forth in RCSA §22a-174-10.
7.	Prohibition Against Concealment/Circumvention: The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
8.	Violations and Enforcement: The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
9.	Variances: The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
10.	No Defense to Nuisance Claim: The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
11.	Severability: The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.
12.	Responsibility to Comply: The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
13.	Particulate Emissions: The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)
14.	Sulfur Compound Emissions: The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.
15.	Organic Compound Emissions: The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
16.	Nitrogen Oxide Emissions: The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.
17.	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).
18.	Emission Fees: The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
19.	Fuel Distribution: The Permittee shall comply with the applicable requirements for fuel distribution as set forth in RCSA §22a-174-30.

Section IV: Compliance Schedule

Table IV: Compliance Schedule			
Emissions Unit	Applicable Permit	Steps Required for Achieving Compliance (Milestones)	Date by which each Step is to be Completed
EU-001	Permit No. 097-0114	The Permittee shall be required to complete the LFG collection system by installation of the additional interior wells.	<p>Within 12 months of any of the following:</p> <ol style="list-style-type: none"> 1. NMOC emission rate from the landfill should equal or exceed 50 Mg/year pursuant to 40 CFR §60.752(b); 2. landfill closure (i.e. disposal of solid waste ends); or 3. final permitted landfill design capacity is reached.
EU-001	Permit No. 097-0114	<p>The Permittee shall install final cover over the landfill as stipulated in the Operations and Maintenance Plan and any applicable landfill waste permit.</p> <p>The Permittee shall amend its Operations and Maintenance Plan to incorporate operational conditions to assure acceptable wellhead pressure limitations are maintained within the landfill area should the Permittee be required by the commissioner to also install a geomembrane or synthetic cover as a component of final cover for the landfill area. In addition, the Permittee shall submit in writing to the commissioner for review and approval the amended operational conditions incorporated into the plan assuring the proper wellhead pressure is maintained. Final cover for the landfill shall be a minimum of an 18 inch barrier layer (1 x 10⁻⁵ cm/sec earthen material) overlain by a minimum of a 6" thick erosion layer or other design approved by the commissioner.</p>	<p>Within eight months of the final closure or reaching of final design capacity, whichever is earliest, or other schedule approved by the commissioner.</p>

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.

- A.** This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.
- C.** Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- D.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.

Section VI: Title V Requirements

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

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.”

Section VI: Title V Requirements

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
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).

Section VI: Title V Requirements

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;
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.

Section VI: Title V Requirements

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

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

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

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

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

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

Section VI: Title V Requirements

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.

Section VI: Title V Requirements

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

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

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

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

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

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

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

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.

Section VI: Title V Requirements

V. TRANSFERS [RCSA §22a-174-2a(g)]

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]

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

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

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.