Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

BUREAU OF AIR MANAGEMENT
TITLE V OPERATING PERMIT

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

Title V Permit Number	**150-0008-TV**
Client/Sequence/Town/Premises Numbers	**6032-001-150-0012**
Date Issued	September 26, 2013
Expiration Date	September 26, 2018

Corporation:

Covanta Southeastern Connecticut Company

Premises Location:

132 Military Highway, Preston, CT 06365

Name of Responsible Official and Title:

Mr. John Vinson, Plant Manager

All the following attached pages, 2 through 58, are hereby incorporated by reference into this Title V permit.

/s/ Anne Gobin for
Daniel C. Esty
Commissioner

September 26, 2013
Date

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Title V Operating Permit

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

LIST OF ABBREVIATIONS/ACRONYMS

Abbreviation/Acronym	*Description*
^{o}C	Degree Celsius
^{o}F	Degree Fahrenheit
acfm	Actual cubic feet per minute
AOS	Alternative Operating Scenario
ASC	Actual Stack Concentration
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CP/OP	Construction Permit/Operating Permit
DEEP	Department of Energy and Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emissions Unit
EPA	Environmental Protection Agency
GEU	Grouped Emissions Unit
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
hr	Hour
lb	Pound
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 microns
ppmvd	Parts per million, volumetric basis dry
RCSA	Regulations of Connecticut State Agencies
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SOx	Sulfur Oxides
SOS	Standard Operating Scenario
tph	Tons per hour
tpy	Tons per year
VOC	Volatile Organic Compound

Section I: Premises Information and Description

A. PREMISES INFORMATION

Nature of Business: Resource Recovery Facility
Primary SIC: 4953

Facility Mailing Address: Covanta Southeastern Connecticut Company
132 Military Highway
Preston, CT 06365
Telephone Number: (860) 889-4900

B. PREMISES DESCRIPTION

The Covanta Southeastern Connecticut Company ("Covanta") owns and operates the Southeastern Connecticut Regional Resource Recovery Facility. The facility is a major source for SO_2, NOx, CO and HAPs and is located in a serious ozone non-attainment area defined in RCSA §22a-174-1(103). The purpose of the facility is to convert municipal solid waste (MSW) to electricity. Electrical power is distributed to the Connecticut Light & Power's electrical network. There are no active DEEP orders.

Municipal Waste Combustors:

Two Deutsche Babcock Anlagen Furnace/Boilers (GEU-1) utilizing a roller grate stoker system (EU-1 & EU-2) combust MSW to produce steam, which in turn is used to generate electricity by an Alstom steam powered turbine. The auxiliary fuel system uses regulated wood fuel and No. 2 fuel oil. Each MWC has a design charging rate of 344.5 tons of MSW per day. Air pollution emissions are controlled by combustion controls within the MWC, a spray dryer absorber, followed by a six-compartment fabric filter, a carbon injection system and a selective non-catalytic reduction (SNCR) system. The spray dryer absorber (SDA) applies a lime/water slurry mixture to the MWC outlet gases. The lime slurry mixture neutralizes the acid gases (HCl and H_2SO_4) and cools the outlet gases. The fabric filter removes particulate matter and provides a secondary neutralization surface. The carbon injection system controls the mercury emissions. The SNCR system controls NOx emissions. Each MWC has independent continuous emissions monitoring (CEM) systems which collect data for opacity, SO_2, NOx, CO and CO_2. The MWCs were issued NSR permits, 150-0001 and 150-0002, to construct on 12/12/1988; permits to operate were issued on 12/21/1992; revisions to the permits were made on 12/22/2003; and modifications to the permits were made 08/24/2012 and 06/14/2013.

Ash Handling System:

The ash handling system (EU-3) is comprised of two processes. Fly ash is collected from the baghouse hoppers and transported to a pugmill via an enclosed conveyor system. From the pugmill, the fly ash is transported via an open conveyor fully within the confines of the boilerhouse. Bottom ash is collected in each MWC's ash extractor and then transported via an open conveyor fully within the confines of the boilerhouse. Both fly ash and bottom ash are combined in the ash management building. The combined ash is then transferred into a truck for disposal using a frontend loader within the confines of the ash management building. A permit is not required.

Emergency Generator:

A Caterpillar 455 kW diesel emergency generator (EU-4) supplies emergency power to the facility. This diesel generator is only operated during emergency situations and testing/maintenance activities. This emergency generator is subject to RCSA §22A-174-3b(e) and 40 CFR Part 63 Subpart ZZZZ.

Cold Degreaser:
As part of the maintenance operation, a small cold solvent degreaser (EU-5) is used to remove oil, grease and other material from small equipment parts. The degreaser is equipped with an idle mode cover to minimize VOC emissions. The degreaser uses a non-halogenated solvent and does not require a permit.

Waste Oil Space Heater:
As part of the maintenance operation, a 250,000 MMBtu/hr waste oil space heater (EU-6) combusts only waste oil generated on site to heat the maintenance shop. The burner is equipped with a stack that vents outside of the building. The unit was installed in 2009 and does not require a permit.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

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

TABLE II.A: EMISSIONS UNITS DESCRIPTION

Emissions Unit/ Grouped Emissions Unit	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
GEU-1	EU-1 and EU2 Deutsche Babcock Anlagen Municipal Solid Waste Fired Furnace/Boiler Utilizing a Roller Grate Stoker System Nos 1 and 2; Installed 12/12/1988; 344.5 tons/day MSW	• Spray Dryer Absorber • Fabric Filter Baghouse • Powdered Activated Carbon Injection System • SNCR	P-150-0001 P-150-002
EU-3	Ash Handling System	None	RCSA §22a-174-38
EU-4	Caterpillar 455 kW Diesel Generator, Model No. 3412 DIT; 35.7 gal/hr; constructed 12/12/1988	None	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
EU-5	Open Top Cold Solvent Degreaser; non-halogenated solvent; Constructed 04/2006	Idling Mode Cover	RCSA §22a-174-20(l)
EU-6	Clean Burn Energy Systems CB-2500 Used Waste Oil Space Heater; 0.25 MMBtu/hr; 1.7 gal/hr maximum firing rate; Constructed in 2009	N/A	N/A

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 below. There are no Alternate Operating Scenarios for the premises.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION

Emissions Units Associated with the Scenario	Description of Scenario
EU-1 and 2	EU-1 and 2 combust MSW and produce steam used to generate electricity.
EU-3	EU-3 collects the bottom ash from each combustor and the fly ash from the baghouses. The ash is quenched in water troughs and conveyed to the ash handling building where it is loaded onto trucks for removal from the facility.
EU-4	EU-4 combusts diesel fuel to produce emergency power for the facility.
EU-5	EU-5 removes oil, grease and other material from small equipment parts using non-halogenated solvents.
EU-6	EU-6 combusts waste oil for space heat in the maintenance shop.

Section III: Applicable Requirements and Compliance Demonstration

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

A. GROUPED EMISSION UNIT 1 (GEU-1): Two (2) Deutsche Babcock Anlgen Municipal Solid Waste fired Furnace/Boilers; Permit Nos. 150-0001 and 150-0002

1. Materials Charged:

a. Limitation or Restriction

i. Maximum Facility MSW Processing Weight: 251,485 tons/calendar year
[P-150-0001 & 0002, Part I.A.1.b]

A. The Maximum Facility MSW Processing Rate (P) shall be adjusted for water content and calculated using the following equation: [P-150-0001 & 0002, Appendix G]

1. P = 251,485 (5000/HHV)

B. The Facility Annual Average Higher Heating Value (HHV) of the Waste Processed shall be calculated using the following equations:

1. HHV = (SSR x 1317) + 960
SSR = (ASTM/WP)
ASTM = 0.98 x (STM - FA)

Where:
P is the Maximum Facility MSW Processing Rate adjusted for water content in tons MSW per calendar year.

251,485 is the Maximum Facility MSW Processing Rate in tons MSW per calendar year.

5000 is the Facility Design Higher Heating Value in BTU/lb MSW.

HHV is the Facility Annual Average Higher Heating Value in BTU/lb MSW.

SSR is the Facility Annual Specified Steam Ratio which is determined by dividing the Facility Annual Adjusted Steam Flow (ASTM) by the Facility Annual MSW Combusted (WP) during the applicable year expressed in lb steam/lb MSW.

1317 & 960 are constants developed through linear regression analysis and formalized in the Service Agreement with the Southeastern Connecticut Regional Resource Recovery Authority (SCRRRA), dated February 2, 1994. The value 1317 is the slope of the linear regression line expressed in BTU/lb steam. The value 960 is the linear regression intercept expressed in BTU/lb MSW.

ASTM is the Facility Annual Adjusted Steam Flow in pounds of steam per calendar year corrected for sootblowing and other allowances (that may include boiler blowdown activities and miscellaneous boiler vents and drains).

WP is the Facility Annual MSW Combusted in pounds MSW per calendar year. WP is determined by summing the Facility annual truck scale house weight data corrected for the net changed in refuse pit inventory on hand at first and the last day of the calendar year less Regulated Wood Fuel and separated pre and post combustion scrap metal, oversized MSW, bulky waste, and rejected wastes.

0.98 is the Adjustment Factor for sootblowing and other allowances (that may include boiler blowdown activities and miscellaneous boiler vents and drains).

STM is the Facility Annual Steam Flow in pounds of steam per calendar year measured by totaling the boiler steam meters.

FA is the Facility Annual Fuel Adjustment in pounds of steam per calendar year calculated as the sum of the following:
Pounds of Steam = GAL x 92 lbs steam/gallon of fuel oil
Pounds of Steam = TONS x 6000 lbs steam/ton of regulated wood fuel burned.

GAL is the Facility Annual fuel oil combusted in gallons per calendar year.

TONS is the Facility Annual regulated wood fuel combusted in tons per calendar year.

C. MSW as defined and restricted in CGS §22a-207 et seq. and any applicable Bureau of Materials Management and Compliance Assurance permit or authorization.
[P-150-0001 & 0002, Part I.A.1.a.i]

D. The design charging rate of MSW is based on the design heat input of 143,541,000 BTU/hr/boiler and a design higher heating value of 5000 BTU/lb MSW.
[P-150-0001 & 0002 Part I.B.1.a]

ii. Maximum Cardboard Recycling Waste: 70 tons/8-hour period
[P-150-0001 & 0002, Part I.A.1.c]

A. Cardboard recycling waste consisting of cardboard scraps, plastic fragments, adhesive tape and glue shall be processed as soon as possible.
[P-150-0001 & 0002, Part I.A.1.a.ii]

iii. Auxiliary Fuels: No. 2 Fuel Oil and Regulated Wood Fuel as defined in CGS §22a-209. The Permittee shall inspect all shipments of regulated wood fuel delivered to the premises, prior to combustion, in accordance with the procedure described in the "Regulated Wood Fuel QA/QC Plan" submitted to the Bureau of Air Management on April 16, 1998. [P-150-0001 & 0002, Part I.A.2.a]

A. Maximum Facility Consumption: 12,574 tons/calendar year [P-150-0001 & 0002, Part I.A.2.b]

B. Maximum Chlorine Content of Regulated Wood Fuel (% by weight, dry basis): 0.15
[P-150-0001 & 0002, Part I.A.2.c]

C. Maximum Non-Wood Material Content of Regulated Wood Fuel (% by weight, dry basis): 1.0
[P-150-0001 & 0002, Part I.A.2.d]

iv. Special waste as defined in RCSA §22a-209-1 and in accordance with the Permittee's most current approved Special Waste Disposal Authorization(s) issued pursuant to CGS 22a-208y. [P-150-0001 & 0002, Part I.A.1.a.iii]

v. Fuel additives, such as naturally occurring clay in the form of raw materials or commercial product, may but used to minimize ash agglomeration. The Permittee may use up to fourteen (14) tons/day (facility wide) [P-150-0001 & 0002, Part I.A.1.a.iv]

b. Monitoring Requirements

i. The Permittee shall monitor the annual quantity of MSW, cardboard recycling waste, regulated wood fuel and No. 2 fuel oil combusted in GEU-1, in tons and/or gallons, using truck scale house weight data, adjusted for refuse pit inventory, fuel purchase records or a non-resettable totalizing fuel meter, and other waste not actually processed through the MWC.
[P-150-0001 & 0002, Part IV.A]

ii. The Permittee shall monitor the daily and annual charging rate of allowable fuels and hours of operation. [P-150-0001 & 0002, Part IV.B; RCSA §22a-174-33(j)(1)(K)(ii)]

iii. The Permittee shall, for each individual cardboard recycling waste shipment received, record the date, time, source and amount of cardboard recycling waste along with the eight (8) hour block total cardboard recycling waste received using truck scale house weight data.
[P-150-0001 & 0002 Part IV.C] [RCSA §22a-174-33(j)(1)(K)(ii)]

iv. The Permittee shall inspect all shipments of regulated wood fuel delivered to the premises, prior to combustion, in accordance with the procedure described in the "Regulated Wood Fuel QA/QC Plan" submitted to the Bureau of Air Management on April 16, 1998.
[P-150-0001 & 0002, Part I.A.2.a]

v. The Permittee shall monitor any special waste as defined in RCSA §22a-209-1 and in accordance with the Permittee's most current approved Special Waste Disposal Authorization(s) issued pursuant to CGS 22a-208y. [RCSA §22a-174-33(j)(1)(K)(ii)]

vi. The Permittee shall monitor the daily fuel additive use. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the annual quantity of MSW combusted in the facility, in tons. [P-150-0001 & 2 Part IV.A.1] The annual quantity of MSW for the facility shall be determined by summing the truck scale house weight data for the calendar year minus the refuse pit inventory on the last day of the calendar year less Regulated Wood Fuel and separated pre and post combustion scrap metal, oversized MSW, bulky waste, and rejected wastes.
[RCSA §22a-174-4(d)(1)]

ii. The Permittee shall make and keep records of the annual regulated wood fuel usage for the facility, in tons. [RCSA §22a-174-33(j)(1)(K)(ii)]

iii. The Permittee shall make and keep records of the daily MSW charging rate and hours of operations in accordance with 40 CFR §60.53. [P-150-0001 & 0002, Part IV.B]

iv. The Permittee shall, for each individual cardboard recycling waste shipment received, make and keep records of the date, time, source and amount of cardboard recycling waste and sufficient records to show that not more than 70 tons of cardboard recycling waste/eight hours were combusted. [P-150-0001 & 0002, Part IV.C; RCSA §22a-174-33(j)(1)(K)(ii)]]

v. The Permittee shall make and keep records of the daily and annual No. 2 fuel oil usage for each MWC using either fuel purchase receipts or a non-resettable totalizing fuel meter. [RCSA §22a-174-38(k)(13)(A); P-150-0001 & 0002 Part IV.A.4]

vi. The Permittee shall make and keep records for the fuel additives used to prevent ash agglomeration. These records shall include the following: [P-150-0001 & 0002, Part IV.G]

A. Type of fuel additive;

B. Manufacture's Material Safety Data Sheet (MSDS) or other technical specification showing the material makeup; and

C. Calculations to show compliance with RCSA 22a-174-29, if applicable;

vii. The Permittee shall make and keep records of any special waste as defined in RCSA §22a-209-1 and in accordance with the Permittee's most current approved Special Waste Disposal Authorization(s) issued pursuant to CGS 22a-208y in units of tons/yr.

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. The report shall include the following:

A. All data recorded concerning materials charged to the MWC during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

ii. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

2. Design Specifications:

a. Limitation or Restriction

i. Maximum Hours of Operation: Daily: 24; Consecutive twelve (12) month period: 8,760 [P-150-0001 & 0002, Part I.A.1.d]

ii. Design Steam Flow Rate (lbs/hr): 91,734 @900 psig and 865 ^{o}F. [P-150-0001 & 0002, Part I.B.1.c]

iii. Auxiliary Burner System

A. Startup Burners (2) Ray International BGE 500 [P-150-0001 & 0002, Part I.B.2]

1. Type of Fuel: No. 2 fuel oil

2. Maximum Firing Rate (gallons/hr): 153.8 each

3. Maximum Gross Heat Input (BTU/hr): 21,439,600 each

B. Ignition Burners (2) Ray International BGE 250
[P-150-0001 & 0002, Part I.B.2]

1. Type of Fuel: No. 2 fuel oil

2. Maximum Firing Rate (gallons/hr): 76.9

3. Maximum Gross Heat Input (BTU/hr): 10,719,800 each

C. The Permittee shall install and operate continuous monitoring systems for measuring and recording the furnace temperature. [P-150-0001 & 0002 Part I.2.B]

iv. Stack Parameters
[P-150-0001 & 0002, Part I.B.3]

A. Design Exhaust Gas Flow Rate (acfm): 66,500 (WET) @260 ^{0}F

B. Normal Exhaust Gas Temperature (^{0}F): 260-350

C. Minimum Distance from stack to property line (ft): 108

D. Minimum Stack Height (feet above grade): 240

v.. Maximum pressure drop across the baghouse shall not exceed 6.0 -10.0 inches of H_2O.
[P-150-0001 & 0002, Appendix E]

vi. Spray Dryer
[P-150-0001 & 0002, Appendix E]

A. Lime Usage: 100-500 lbs/hr

B. Water Usage: 6,000-12,000 lbs/hr

C. Inlet Gas Temperature: 400 – 600^{0}F

b. Monitoring Requirements

i. The Permittee shall install and operate continuous monitoring systems for measuring and recording the furnace temperature. [P-150-0001 & 0002 Part III.B]

ii. The Permittee shall install and operate continuous monitoring systems for measuring and recording the unit load (steam flow). [P-150-0001 & 0002 Part III.B]

iii. The Permittee shall meet the requirements for CEM systems as set forth in RCSA §22a-174-38(j)(1)(G).

iv. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

v. The Permittee shall verify the exhaust gas flow rate and exhaust gas temperature during the required annual stack testing pursuant to RCSA §22a-174-38(i)(2). [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The daily hours of operation shall be recorded daily for each MWC unit. Records of hours of operation shall distinguish periods of startup and shutdown. [RCSA §22a-174-38(k)(13)(B)]

ii. The Permittee shall record the furnace temperature. The Permittee shall compute and record all 4-hour block average furnace temperatures. [P-150-0001 & 0002 Part III.B]

iii. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

iv. The Permittee shall make and keep records of the exhaust flow rate and exhaust temperature determined during the required annual stack testing. [RCSA §22a-174-33(j)(1)(K)(ii)]

v. The permittee shall maintain documentation demonstrating compliance with the stack height and minimum distance to property line design specifications. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

i. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.N] The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

iii. The data and results of any CEM quality assurance testing conducted pursuant to RCSA §22a-174-38.

iv. The Permittee shall submit all required reports in accordance with Section VI.E of this Title V permit

3. Non-Hazardous Industrial Wastewater and Landfill Leachate Reuse and Recycling

a. Limitation or Restriction

i. Wastewater from industrial sources and Landfill leachate from either a municipal solid waste or ash landfill may be reused and/or recycled to supplement the process water needs of the facility. The

industrial wastewater and landfill leachate shall be used for dilution water in the SNCR and in the spray dryer absorbers, in the ash quenching system, in the pug mill for dust suppression and any other facility operation, which has been approved by the Commissioner.
[P-150-0001 & 0002, Part I.A.3.a]

ii. Industrial wastewater shall not exceed 28,000 gallons per day in the SNCR. In addition, the combination of industrial wastewater and landfill leachate use in the spray dryer absorber, ash quench and pugmill shall not exceed 35,000 gallons per day or 9,100,000 gallons per year.
[P-150-0001 & 0002, Part I.A.3.b]

b. Monitoring Requirements

i. The Permittee shall monitor the daily and annual quantity of industrial wastewater and landfill leachate reuse and recycling for the facility, including the locations of each source of industrial wastewater or landfill leachate that is used at the facility.
[P-150-0001 & 0002, Part IV.E]

ii. Samples of each source of industrial wastewater and the leachate reused at the facility shall be analyzed by a laboratory, certified by the Department, every six (6) months with the first delivery. These test analyses shall include concentrations of Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Vanadium, Zinc, Total Dissolved Solids (TDS), Total Suspended Solids (TSS) and Total Volatile Organic Compounds (VOC).
[P-150-0001 & 0002, Part I.A.3.c]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of each delivery of non-hazardous industrial wastewater and landfill leachate, not limited to include the source of the wastewater or leachate, the quantity in gallons, methods used to determine acceptability for use in the facility and the sample testing in Part I.A.4.c of permits P-150-0001 & 0002. [P-150-0001 & 0002, Part IV.F]

ii. The Permittee shall make and keep records of the daily and annual quantity of industrial wastewater and landfill leachate reuse and recycling for the facility. [P-150-0001 & 0002 Part IV.E]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter.
[RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

ii. The Permittee shall submit all required reports in accordance with Section VI.E of this Title V permit

4. Baghouse:

a. Limitation or Restriction

i. Baghouse Inlet Temperature: The Permittee shall not cause or allow the unit to operate at a temperature, measured at each particulate control device inlet more than 17 degrees centigrade, based on a 4-hour block average, above the maximum demonstrated particulate matter control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emission limit was achieved. [RCSA §22a-174-38(g)(1)] The Permittee may, notwithstanding RCSA §22a-174-38(g)(1), during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow temperatures in excess of that specified in RCSA §22a-174-38(g)(1). However, should the Permittee operate the unit at such excess temperatures, the Permittee shall not again be allowed to operate at such excess temperatures during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3); P150-0001 & -0002, Part I.A.4]

ii. The baghouse shall consist of 6 compartments @4030 ft^2 each –5 operational, 1 spare. The baghouse bypass damper shall be rendered inoperative and secured in the closed position thereby preventing baghouse bypass at all times. [P-150-0001 & 0002, Appendix E]

b. Monitoring Requirements

i. The Permittee shall install and operate continuous monitoring systems for measuring and recording baghouse inlet temperature for each baghouse. [P-150-0001 & 0002 Part III.B]

ii. The Permittee shall install and operate continuous monitoring systems for measuring and recording pressure drop across the baghouse. [P-150-0001 & 0002 Part III.B]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2) for the inlet temperature CEM.

c. Record Keeping Requirements

i. The Permittee shall record all one-hour average particulate matter control device temperatures for each baghouse. [RCSA §22a-174-38(k)(3)(E)] [P-150-0001 & 0002 Part III.B]

ii. The Permittee shall compute and record all 4-hour block average particulate matter control device temperature levels for each baghouse.
[RCSA §22a-174-38(k)(4)(D)] [P-150-0001 & 0002 Part III.B]

iii. The Permittee shall maintain records of the calendar dates when any of the particulate matter control device temperature levels are above the applicable limit, the reasons for such exceedance, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iv. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

v. The Permittee shall maintain records of when the particulate matter control device temperature and

unit load data have been excluded from the calculation of average parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]

vi. The Permittee shall maintain records of test reports and supporting calculations of the maximum demonstrated particulate control device temperature during the required annual dioxin/furan performance test. [[RCSA §22a-174-38(k)(10)]

vii. The Permittee shall record pressure drop across the baghouse. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. All CEM data using a one hour average. [P-150-0001 & 0002 Part III.D]

5. Carbon Injection System

a. Limitation or Restriction

During the operation of a MWC unit, the carbon injection system operating parameter(s) that is the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall equal or exceed the level(s) documented during the performance tests specified under RCSA §22a-174-38(i), based on a 8-hour block average. [RCSA §22a-174-38(g)(5)]

b. Monitoring Requirements

i. The Permittee shall monitor the carbon mass feed rate for the carbon injection system, as estimated from the screw feed speed indicator, and manual feed. [P-150-0001 & 00002 Part(s) III.B & IV.M]

ii. The Permittee shall meet the requirements for CEM systems as set forth in RCSA §22a-174-38(j)(1)(G).

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the following: [RCSA §22a-174-38(k)(11)]

A. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial mercury or dioxin/furan performance test and all subsequent annual performance tests, with supporting calculations;

B. For each calendar quarter, estimates of the total carbon usage for each MWC unit in kilograms or

pounds for each calendar quarter by two independent methods, according the procedures specified below:

1. For each MWC unit, estimate the weight of carbon delivered, and

2. For each MWC unit, estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation based on the parameters specified under RCSA §22a-174-38(i)(4)(K), and sum the results for the total number of hours of operation during the calendar quarter;

C. Carbon injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon feed rate (e.g., screw feeder speed); and

D. The times and calendar dates when 8-hour block average carbon mass feed rates were less than the hourly carbon feed rates estimated during mercury or dioxin/furan emission tests. The reasons for such feed rates and a description of corrective actions taken shall also be recorded.

E. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.P] The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. All CEM data using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit the following information: [RCSA §22a-174-38(l)(2)(C)]

A. Identification of the calendar dates during the calendar quarter reported when 8-hour block average carbon mass feed rates were less than either of the hourly carbon feed rates estimated during mercury or dioxin/furan emissions tests, and the rates recorded. The reasons for such feed rates and a description of the corrective actions taken shall also be reported;

B. The total carbon purchased for and delivered to the MWC plant or purchased for and delivered to each MWC unit for the reported calendar quarter, and

C. The required usage of carbon for the reported calendar quarter for the MWC plant or for each MWC unit at the plant, calculated using equation 4 or 5 of 40 CFR 60.1935(f); and

iii. The total number of hours that unit load data was excluded from the calculation of average parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

6. Unit Load

a. Limitation or Restriction

i. Unit Load: The Permittee shall not cause or allow such unit to operate at a municipal waste combustor unit load greater than one hundred ten percent (110%) of the maximum demonstrated 4-hour average municipal waste combustor unit load, based on a 4-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. Municipal waste combustor unit load shall be measured by a steam flow meter. [RCSA §22a-174-38(g)(2); P-150-0001 & 0002, Part I.A.5]

ii. The Permittee may, notwithstanding RCSA §22a-174-38(g)(2), during the annual dioxin/furan emissions performance test and for two weeks prior to such test, allow MWC unit load limits in excess of that specified in RCSA §22a-174-38(g)(2). However, should the Permittee operate the unit at such excess load, the Permittee shall not again be allowed to operate at such excess load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3); P-150-0001 & 0002, Part I.A.6]

b. Monitoring Requirements

i. The Permittee shall install and operate continuous monitoring systems for measuring and recording unit load (i.e., steam flow meter) for each MWC.
[P-150-0001 & 0002 Part III.B; RCSA §22a-174-38(g)(2)]

ii. The Permittee shall meet the requirements of 40 CFR 60.1810(a) for the unit load continuous monitoring system. [RCSA §22a-174-38(j)(1)(F)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall compute and record all 4-hour block average MWC unit load for each MWC. [RCSA §22a-174-38(k)(4)(D)] [P-150-0001 & 0002 Part III.B]

ii. The Permittee shall record all one-hour average MWC unit load measurements for each MWC. [RCSA §22a-174-38(k)(3)(E); P-150-0001 & 0002 Part III.D]

iii. The Permittee shall maintain records of the calendar dates when unit load is above the applicable limit, the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iv. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

v. The Permittee shall maintain records of when the particulate matter control device temperature and unit load data have been excluded from the calculation of average parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]

vi. The Permittee shall maintain records of test reports and supporting calculations of the maximum demonstrated unit load during the required annual dioxin/furan performance test. [[RCSA §22a-174-38(k)(10)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:

A. The total number of days that the minimum number of hours of unit load data was not obtained. [RCSA §22a-174-38(l)(3)(A)(v)]

B. The total number of hours that unit load data was excluded from the calculation of average parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

7. Spray Dryer Reagent Feed Rate

a. Limitation or Restriction

i. There are no limitations or restrictions on the Spray Dryer

b. Monitoring Requirements

i. The Permittee shall install and operate continuous monitoring systems for measuring and continuously recording reagent feed rate and inlet gas temperature for the spray dryer absorber for each MWC unit.
[RCSA §22a-174-33(j)(1)(K)(ii)]

ii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. For each MWC unit, the following records of reagent use shall be maintained:
[RCSA §22a-174-38(k)(12)]

A. For each reagent, the feed rate to the air pollution control device, measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations, and

B. For each calendar quarter, total lime and water usage for each MWC unit in kilograms or pounds for each calendar quarter.

ii. The Permittee shall maintain records of the inlet gas temperature. [RCSA §22a-174-33(j)(1)(K)(ii)]

iii. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6); RCSA §22a-174-33(j)(1)(K)(ii)]]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. The report shall include the following:

A. All data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the operating parameters recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit an annual report to the commissioner not later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:

A. The total number of days that the minimum number of hours of reagent feed data rate was not obtained. [RCSA §22a-174-38(l)(3)(A)(v)]

B. The total number of hours that reagent feed rate data was excluded from the calculation of average parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

8. Particulate Matter (PM-10):

a. Limitation or Restriction

i. PM-10 emissions for both MWC shall be less than or equal to: [P-150-0001 & 0002 Part VI.A.1]

A. 25 mg/dsm @ 12% CO_2 [RCSA §22a-174-38(c)(1), Table 38-1]

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence. [P-150-0001 & 0002 Part VI]

B. 7.68 lbs/hr [P-150-0001 & 0002 Part VI, Table 1]

C. 26.7 tpy [P-150-0001 & 0002 Part VI, Table 1]

ii. In the event that the PM emission rate exceeds 0.020 gr/dscf corrected to 12% CO_2, as determined through stack testing compliance data, the Permittee shall cease feeding MSW into the hopper and shall not resume operation until compliance measures have been completed. [P-150-0001 & 0002 Part VI.A.1]

iii. In the event that PM emissions from this MWC exceed the maximum PM emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for particulate matter for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test for particulate matter in accordance with RCSA §22a-174-38(i)(4)(A). [P-150-0001 & 0002 Part(s) VI.A.1 & VII.A]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with particulate matter emission limits for each MWC. [RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002, Part IV.G]

ii. The Permittee shall calculate and record monthly and consecutive 12 month particulate matter emissions in units of tons/month and tons/year for the preceding month, including the contribution of particulate matter from industrial wastewater and landfill leachate reuse. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1); P-150-0001 & 0002 Part IV.J]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter emission levels achieved during annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year PM emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any particulate matter emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6); P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

9. Opacity:

a. Limitation or Restriction

i. Opacity for both MWC shall be less than or equal to:

A. 10% on a six-minute arithmetic average.

B. During periods of startup, shutdown, or malfunction, the opacity limit shall not be exceeded during more than five (5) 6-minute arithmetic average measurements. [P150-0001 & 2, Part VI]

C. Maximum Allowable Opacity: 40% instantaneous. Instantaneous is defined as one (1) ten second period including sampling, analyzing, and data recording. [P150-0001 & 2, Part VI.A.2]

D. If opacity exceeds 40% based on a thirty minute rolling average, the Permittee shall cease feeding MSW into the hopper and shall not resume operation until compliance measures have been completed. [P-150-0001 & 0002, Part VI.A.3]

b. Monitoring Requirements

i. The Permittee shall install and operate CEMS for measuring opacity of emissions discharged into the atmosphere from each MWC and record the output of the system. [P-150-0001 & 2 Part III.A]

ii. The Permittee shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 1; RCSA §22a-174-4; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(A)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall record all six-minute arithmetic average opacity levels. [RCSA §22a-174-38(k)(3)(A)] [P-150-0001 & 0002 Part III.A]

ii. The Permittee shall maintain records of the calendar dates when any opacity levels are above the applicable limit, the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iii. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

iv. The Permittee shall maintain records of daily calibrations and quarterly accuracy determinations for opacity continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.P] The report shall include the following:

A. All emission data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the highest six-minute average opacity level measured. [RCSA §22a-174-38(l)(3)(A)(iii)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any opacity levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall review all recorded CEM data daily and 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.
[RCSA §22a-174-33(p)(1)]

10. Sulfur Dioxide (SO_2):

a. Limitation or Restriction

i. SO_2 emissions for both MWC shall be less than or equal to:

A. 29 ppmvd @ 12% CO_2 (dry basis) or 75% reduction by weight or volume, whichever is less stringent based on a 24-hr daily geometric mean.[RCSA §22a-174-38(c)(1), Table 38-1]

1. Continuous compliance with the sulfur dioxide limit shall be based on a 24-hour geometric average of the hourly arithmetic average emission concentrations using CEM system outlet data if compliance is based on an emission concentration or CEM system inlet and outlet data if compliance is based on a percent reduction. [RCSA §22a-174-38(c)(4)]

2. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence.
[P150-0001 & 2 Part VI]

B. 80.0 lbs/hr
[P-150-0001 & 0002, Part VI.B]

C. 350.4 tpy
[P-150-0001 & 0002, Part VI.B]

D. During any period that the scrubber is malfunctioning, the SO_2 emissions from this source shall not exceed 1.1 lb/MMBtu heat input, based on a three (3) hour rolling average.
[P-150-0001 & 0002, Part VI.B.2]

E. In the event that SO_2 emissions exceed 1.1 lb/MMBTU heat input, based on a three (3) hour rolling average, the Permittee shall cease feeding MSW into the hopper and shall not resume operation until compliance measures have been completed. [P-150-0001 & 0002, Part VI.B.3]

b. Monitoring Requirements

i. The Permittee shall install and operate CEMS for measuring SO_2 emissions for each MWC and record the output of the system. [RCSA §22a-174-38(i)(4)(D); P-150-0001 & 0002 Part III.A]

ii. The Permittee shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2; 40 CFR, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(C)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall record all one-hour average sulfur dioxide emission concentrations or all one-hour average sulfur dioxide reduction efficiency levels for each MWC.
[RCSA §22a-174-38(k)(3)(B) & (C); P-150-0001 & 0002, Part III.A]

ii. The Permittee shall compute and record all 24-hour daily geometric average sulfur dioxide emission concentrations and all 24-hour daily geometric average percent reductions in sulfur dioxide emissions for each MWC. [RCSA §22a-174-38(k)(4)(A)] [P-150-0001 & 0002 Part III.A]

iii. The Permittee shall maintain records of the calendar dates when any of the average sulfur dioxide emission rates or percent reductions are above the applicable limit, the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iv. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

v. The Permittee shall maintain records of when sulfur dioxide data have been excluded from the calculation of average emission concentrations and the reasons for excluding the data.
[RCSA §22a-174-38(k)(7)]

vi. The Permittee shall maintain records of daily calibrations and quarterly accuracy determinations for sulfur dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]

vii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month SO_2 emissions in units of lbs/hour, tons/month and tons/year for the preceding month. The consecutive 12 month

emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.P] The report shall include the following:

A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit, the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. The Permittee shall report all CEM data to the commissioner using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. [P-150-0001 & 0002 Part IV.O] Each annual report shall include the following:

A. list of the highest emission level recorded of sulfur dioxide based on data recorded for 24-hour daily geometric averages. [RCSA §22a-174-38(l)(3)(A)(ii)]

B. The total number of days that the minimum number of hours of sulfur dioxide data was not obtained. [RCSA §22a-174-38(l)(3)(A)(v)]

C. The total number of hours that sulfur dioxide data was excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

D. The calendar year SO_2 emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall review all recorded CEM data daily and 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. [RCSA §22a-174-33(p)(1)]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

11. Nitrogen Oxides (NO_x):

a. Limitation or Restriction

i. NO_x emissions for both MWC shall be less than or equal to:

A. 177 ppmvd @ 12% CO_2 (dry basis). [RCSA §22a-174-38(c)(8), Table 38-2]

1. Continuous compliance with the nitrogen oxides emissions limit shall be based on a 24-hour daily average of the hourly arithmetic average of CEM data. [RCSA §22a-174-38(c)(9)]

2. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence. [P-150-0001 & 0002 Part VI]

B. 152.4 lbs/hr
[P-150-0001 & 0002, Part VI.B]

C. 665.8 tpy
[P-150-0001 & 0002, Part VI.B]

b. Monitoring Requirements

i. The Permittee shall install and operate CEMS for measuring NOx emissions for each MWC and record the output of the system. [RCSA §22a-174-38(i)(4)(E); P-150-0001 & 0002 Part III.A]

ii. The Permittee shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2; 40 CFR, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(D)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall record all one-hour average nitrogen oxide emission concentrations for each MWC. [RCSA §22a-174-38(k)(3)(D)] [P-150-0001 & 0002 Part III.A]

ii. The Permittee shall compute and record all 24-hour daily arithmetic average nitrogen oxide emission concentrations for each MWC.
[RCSA §22a-174-38(k)(4)(B)] [P-150-0001 & 0002 Part III.A]

iii. The Permittee shall maintain records of the calendar dates when any of the average nitrogen oxide emission rates are above the applicable limit, the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iv. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

v. The Permittee shall maintain records of when nitrogen oxide emissions data have been excluded from the calculation of average emission concentrations and the reasons for excluding the data.
[RCSA §22a-174-38(k)(7)]

vi. The Permittee shall maintain records of daily calibrations and quarterly accuracy determinations for nitrogen oxides continuous emission monitoring systems.
[RCSA §22a-174-38(k)(8)]

vii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month NOx emissions in units of lbs/hour, tons/month and tons/year for the preceding month. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.P] The report shall include the following:

A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter.
[RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action.
[RCSA §22a-174-38(l)(2)(B)]

C. The Permittee shall report all CEM data to the commissioner using a one hour average.
[P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. [P-150-0001 & 0002 Part III.O] Each annual report shall include the following:

A. list of the highest emission level recorded of nitrogen oxides based on data recorded for 24-hour daily arithmetic averages. [RCSA §22a-174-38(l)(3)(A)(ii)]

B. The total number of days that the minimum number of hours of nitrogen oxides data was not obtained. [RCSA §22a-174-38(l)(3)(A)(v)

C. The total number of hours that nitrogen oxides data was excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

D. The calendar year NOx emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3. [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall review all recorded CEM data daily and 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.
[RCSA §22a-174-33(p)(1)]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

12. Carbon Monoxide (CO):

a. Limitation or Restriction

i. CO emissions for both MWC shall be less than or equal to:

A. 100 ppmvd @ 12% CO_2 (dry basis).
[RCSA §22a-174-38(c)(10), Table 38-3]

1. Continuous compliance with the carbon monoxide emissions limit shall be based on a 4-hour block average of CEM data. [RCSA §22a-174-38(c)(10)]

2. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence.
[P-150-0001 & 0002 Part VI]

3. For determining compliance with an applicable carbon monoxide emissions limit, if a loss of boiler water level control or a loss of combustion air control is determined to be a malfunction, the duration of the malfunction period shall be limited to fifteen (15) hours per occurrence. Otherwise, the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]

B. 62.44 lbs/hr
[P-150-0001 & 0002, Part VI.B]

C. 141.0 tpy
[P-150-0001 & 0002, Part VI.B]

b. Monitoring Requirements

i. The Permittee shall install and operate CEMS for measuring CO emissions of each MWC and record the output of the system. [RCSA §22a-174-38(i)(4)(F); P-150-0001 & 0002 Part III.A]

ii. The Permittee shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 4 or 4A (as applicable); 40 CFR, Appendix F, Procedure 1; and 40 CFR 60.13.
[RCSA §22a-174-38(j)(1)(E)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall record all one-hour average carbon monoxide emission concentrations for each MWC. [RCSA §22a-174-38(k)(3)(E)] [P-150-0001 & 0002 Part III.A]

ii. The Permittee shall compute and record all 4-hour block average carbon monoxide emission concentrations for each MWC. [RCSA §22a-174-38(k)(4)(C)] [P-150-0001 & 0002 Part III.A]

iii. The Permittee shall maintain records of the calendar dates when any of the average carbon monoxide emission rates are above the applicable limit, the reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]

iv. The Permittee shall maintain records of the calendar dates for which the minimum number of hours of any of the data required by RCSA §22a-174-38 have not been obtained, the reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]

v. The Permittee shall maintain records of when carbon monoxide emissions data have been excluded from the calculation of average emission concentrations and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]

vi. The Permittee shall maintain records of daily calibrations and quarterly accuracy determinations for carbon monoxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]

vii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month CO emissions in units of lbs/hour, tons/month and tons/year for the preceding month. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.P] The report shall include the following:

A. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)]

B. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)]

C. The Permittee shall report all CEM data to the commissioner using a one hour average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. [P-150-0001 & 0002 Part III.O] Each annual report shall include the following:

A. list of the highest emission level recorded of carbon monoxide based on data recorded for 4-hour block averages. [RCSA §22a-174-38(l)(3)(A)(ii)]

B. The total number of days that the minimum number of hours of carbon monoxide data was not obtained. [RCSA §22a-174-38(l)(3)(A)(v)

C. The total number of hours that carbon monoxide data was excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)]

D. The calendar year CO emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3. [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall review all recorded CEM data daily and 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.
[RCSA §22a-174-33(p)(1)]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

13. VOC/HC:

a. Limitation or Restriction

i. VOC/HC emissions for both MWC shall be less than or equal to:
[P-150-0001 & 0002 Part VI, Table 1]

A. 10.4 lbs/hr

B. 45.6 tons/yr

b. Monitoring Requirements

i. If requested by the commissioner, the Permittee shall conduct a performance test for VOC/HC, for each MWC using a sampling method approved by the commissioner.
[P-150-0001 & 0002 Part VII.B]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all performance tests conducted to determine compliance with the VOC/HC emission limits for each MWC. [P-150-0001 & 0002 Part IV.H]

ii. The Permittee shall calculate and record hourly, monthly and annual VOC/HC emissions in units of lbs/hour, tons/month and tons/year using the results from the latest stack test data, including the contribution of VOC from industrial wastewater and landfill leachate reuse. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of each calendar year. [RCSA §22a-174-4(d)(1); P-150-0001 & 0002 Part IV.J]

d. Reporting Requirements

i. The Permittee shall submit reports to the commissioner of all performance tests for VOC/HC emissions from the facility, if requested by the commissioner. Such reports shall be submitted when available with the other required performance test reports.
[P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year VOC/HC emissions in units of tons/year for each MWC. [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

14. Sulfuric Acid:

a. Limitation or Restriction

i. Sulfuric acid emissions for both MWC shall be less than or equal to:
[P-150-0001 & 0002 Part VI, Table 1]

A. 5.2 lbs/hr

B. 22.778 tons/yr

b. Monitoring Requirements

If requested by the commissioner, the Permittee shall conduct a performance test for sulfuric acid, for each MWC using a sampling method approved by the commissioner.
[P-150-0001 & 0002 Part VII.B]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all performance tests conducted to determine compliance with the sulfuric acid emission limits for each MWC. [P-150-0001 & 0002 Part IV.H]

ii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month sulfuric acid emissions in units of lbs/hour, tons/month and tons/year for the preceding month. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit reports to the commissioner of all performance tests for sulfuric acid emissions from the facility, if requested by the commissioner. Such reports shall be submitted when available with the other required performance test reports.
[P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

15. Cadmium:

a. Limitation or Restriction

i. Cadmium emissions for both MWC shall be less than or equal to:
[P-150-0001 & 0002 Part VI, Table 2; RCSA §22a-174-38(c)(1), Table 38-1]

A. 0.035 mg/dscm @12% CO_2 (dry basis)

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence. [P150-0001 & 0002 Part VI]

ii. In the event that cadmium emissions from this MWC exceed the maximum cadmium emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for cadmium for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test in accordance with RCSA §22a-174-38(i)(4)(B). [P-150-0001 & 0002 Part VII.A]

c. Record Keeping Requirements

The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the cadmium emission limit for each MWC.
[RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002 Part IV.G]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include cadmium emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any cadmium emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iii. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

16. Lead (Pb):

a. Limitation or Restriction

i. Lead emissions for both MWC shall be less than or equal to:
[P-150-0001 & 2 Part VI, Table 2; RCSA §22a-174-38(c)(1), Table 38-1]

A. 0.400 mg/dscm @12% CO_2 (dry basis)

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence. [P150-0001 & 0002 Part VI]

B. 0.121 lbs/hr

C. 0.532 tons/yr

ii. In the event that lead emissions from this MWC exceed the maximum lead emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for lead for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test in accordance with RCSA §22a-174-38(i)(4)(B). [P-150-0001 & 0002 Part VII.A]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the lead emission limit for each MWC.
[RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002 Part IV.G]

ii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month lead emissions in units of lbs/hour, tons/month and tons/year for the preceding month using the latest stack test data. The consecutive 12 month emissions shall be determined by adding 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 each month.
[RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include lead emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year lead emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any lead emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

17. Mercury (Hg):

a. Limitation or Restriction

i. Mercury emissions for both MWC shall be less than or equal to:
[P-150-0001 & 2 Part VI, Table 2; RCSA §22a-174-38(c)(1), Table 38-1]

A. 0.028 mg/dscm @12% CO_2 (dry basis) or 85% reduction by weight, whichever is less stringent.

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence.
[P150-0001 & 0002 Part VI]

B. 0.104 lbs/hr

C. 0.290 tons/yr

ii. In the event that mercury emissions from this MWC exceed the maximum mercury emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for mercury for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test in accordance with RCSA §22a-174-38(i)(4)(C). [P-150-0001 & 0002 Part VII.A]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the mercury emission limit for each MWC.
[RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002 Part IV.G]

ii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month mercury emissions in units of lbs/hour, tons/month and tons/year for the preceding month using the latest stack test data. The consecutive 12 month emissions shall be determined by adding 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 each month.
[RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include mercury emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year mercury emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at

which the Permittee receives information regarding performance test results indicating that any mercury emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

18. Hydrogen Chloride (HCL):

a. Limitation or Restriction

i. Hydrogen Chloride emissions for both MWC shall be less than or equal to:
[P-150-0001 & 0002 Part VI, Table 2; RCSA §22a-174-38(c)(1), Table 38-1]

A. 29 ppmvd @12% CO_2 (dry basis) or 95% reduction by weight, whichever is less stringent.

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence.
[P150-0001 & 0002 Part VI]

B. 22.674 lbs/hr

C. 99.316 tons/yr

ii. In the event that hydrogen chloride emissions from this MWC exceed the maximum hydrogen choloride emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit.
[P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for hydrogen chloride for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test for in accordance with RCSA §22a-174-38(i)(4)(G). [P-150-0001 & 0002 Part VII.A]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the hydrogen chloride emission limit for each MWC.
[RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002 Part IV.G]

ii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month hydrogen chloride emissions in units of lbs/hour, tons/month and tons/year for the preceding month using the latest stack test data. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include hydrogen chloride emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year hydrogen chloride emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any hydrogen chloride emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

19. Dioxin/Furan:

a. Limitation or Restriction

i. Dioxin/Furan emissions for both MWC shall be less than or equal to:
[P-150-0001 & 0002 Part VI, Table 2; RCSA §22a-174-38(c)(1), Table 38-1]

A. 30 ng/dscm @12% CO_2 (total weight, dry basis), whichever is less stringent. Total dioxin/furan includes tetra- through octachlorinated dibenzo-p-dioxins and dibenzofurans.

1. The above emissions limit shall apply at all times except during periods of startup, shutdown or malfunction as set forth in RCSA §22a-174-38(c)(11). The duration of each startup, shutdown, or malfunction period shall be limited to three hours per occurrence.
[P150-0001 & 0002 Part VI]

B. 9.9×10^{-7} lbs/hr

C. 4.3×10^{-6} tons/yr

ii. In the event that dioxin/furan emissions from this MWC exceed the maximum dioxin/furan emission limit, as determined through stack testing compliance data, the Permittee shall immediately initiate corrective action to re-attain compliance with this limit. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for dioxin/furan for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the annual performance test in accordance with RCSA §22a-174-38(i)(4)(H). [P-150-0001 & 0002 Part VII.A]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the dioxin/furan emission limit for each MWC.
[RCSA §22a-174-38(k)(10)] [P-150-0001 & 0002 Part IV.G]

ii. The Permittee shall calculate and record hourly, monthly and consecutive 12 month dioxin/furan emissions in units of lbs/hour, tons/month and tons/year for the preceding month using the latest stack test data. The consecutive 12 month emissions shall be determined by adding 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 each month.
[RCSA §22a-174-4(d)(1)]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include dioxin/furan emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(i)] [P-150-0001 & 0002 Part IV.O]

ii. The Permittee shall submit the calendar year dioxin/furan emissions in units of tons/year for each MWC with the annual report required by RCSA §22a-174-38(l)(3). [RCSA §22a-174-4(d)(1)]

iii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any dioxin/furan emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

20. Hazardous Air Pollutants (HAP):

a. Limitation or Restriction

The Permittee shall not exceed the maximum allowable stack concentration (MASC) for any hazardous air pollutant listed in RCSA §22a-174-29. In the event that any MASC exceedance occurs, the Permittee shall take corrective action to achieve the permitted emission limit. The Permittee shall provide written notification to the commissioner within three (3) working days of the time at which the Permittee receives information regarding performance test results indicating that the stack concentration levels exceed the MASC limits. [P-150-0001 & 0002 Part VI]

b. Monitoring Requirements

i. The Permittee shall monitor the HAP concentrations of any industrial wastewater or landfill leachate reuse as found in Section III.A.3.b.ii of this permit.

ii. The commissioner may require the Permittee to conduct additional performance tests if any pollutant emission rate or operational parameter is identified as not being in compliance with any permit condition. [P-150-0001 & 0002 Part VII.B]

c. Record Keeping Requirements

i. The Permittee shall calculate the actual stack concentration (ASC) of the non-criteria pollutants listed in Section VI, Table 3 of the NSR permits, including the contribution to the ASC from industrial wastewater and landfill leachate reuse. The Permittee shall make and keep records of the ASC using best engineering judgment, stack test, sample testing or other engineering methods. [P-150-0001 & 0002 Part IV.I]

ii. The Permittee shall make and keep records of all performance tests conducted to determine compliance with the hazardous air emission limits for each MWC. [P-150-0001 & 0002 Part IV.H]

d. Reporting Requirements

i. The Permittee shall submit reports to the commissioner of all performance tests for hazardous air pollutants from the facility, if requested by the commissioner. Such reports shall be submitted when available with the other required performance test reports. [P-150-0001 & 0002 Part IV.H]

ii. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

21. Carbon Dioxide (CO_2):

a. Limitation or Restriction

There are no operating limitations on carbon dioxide emissions. However, there are monitoring, record keeping and reporting requirements.

b. Monitoring Requirements

i. The Permittee shall install and operate CEMS to measure carbon dioxide (CO_2) concentrations for each MWC. [P-150-0001 & 0002 Part III.A]

ii. The Permittee shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 3; 40 CFR, Appendix F, Procedure 1; and 40 CFR 60.13. [RCSA §22a-174-38(j)(1)(B)]

iii. The Permittee shall comply with the minimum data requirements as set forth in RCSA §22a-174-38(j)(2).

c. Record Keeping Requirements

i. The Permittee shall record all one-hour average CO_2 concentrations for each MWC. [P-150-0001 & 0002 Part III.A]

ii. The Permittee shall maintain records of daily calibrations and quarterly accuracy determinations for the carbon monoxide continuous emission monitoring system. [RCSA §22a-174-38(k)(8)]

d. Reporting Requirements

i. The Permittee shall report all CEM data to the commissioner on a quarterly basis using a one-hour block average. [P-150-0001 & 0002 Part III.D]

ii. The Permittee shall review all recorded CEM data daily and 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.
[RCSA §22a-174-33(p)(1)]

iii. The Permittee shall submit a quarterly report to the commissioner within 30 days following the end of each calendar quarter. [P-150-0001 & 0002 Part IV.N] The report shall include all emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter.
[RCSA §22a-174-38(l)(2)(A)]

iv. The Permittee shall submit all required reports in accordance with Part VI.E of this permit.

22. Operator and Training Certification:

a. Limitation or Restriction

i. The Permittee shall not cause or allow the plant to be operated at any time unless a certified chief operator or shift operator is physically present at the plant. [RCSA §22a-174-38(h)(1)] Operators shall be certified by the commissioner under section 22a-231-1 of the Regulations. [RCSA §22a-174-38(h)(2)] Not later than six (6) months after the date of employment, all chief operators and shift operators must satisfactorily complete an operator training course conducted by the commissioner pursuant to RCSA §22a-174-38(h)(3). The operators shall be trained in the operation and maintenance of both the fuel burning and pollution control equipment. [P-150-0001 & 0002 Part V.A]

ii. The Permittee shall establish a training program to review the O&M Manual with each person who has responsibilities affecting the operation of the plant. The training program shall be repeated on an annual basis for each person. [RCSA §22a-174-38(h)(5)] [P-150-0001 & 0002 Part V.C]

iii. Each chief facility operator and shift supervisor must have completed full certification or must have scheduled a full certification exam with either the American Society of Mechanical Engineers QRO-1-1994 or a State certification program in Connecticut and Maryland (if affected facility is located in either or the respective States). [40 CFR §62.14105(b)]

b. Monitoring Requirements

None

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the date, the shift worked, the name of the operator during that shift and the operator's certification. [RCSA §22a-174-33(j)(1)(K)(ii)]

ii. The Permittee shall maintain operator training and certification records on an annual basis, as follows: [RCSA §22a-174-38(k)(2)]

A. The names of the chief operators and shift operators, certified by the commissioner, and employed at the plant, including the dates of initial and renewal certifications and documentation of current certification;

B. The names of the chief operators and shift operators who have completed an operator training course as required under RCSA §22a-174-38(h)(3); and

C. The names of the persons at the plant who have completed a training program as required under RCSA §22a-174-38(h)(5).

d. Reporting Requirements

The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

23. Operating and Maintenance (O&M) Manual:

a. Limitation or Restriction

i. The Permittee shall maintain an MWC Operating and Maintenance (O&M) Manual that shall be updated on a yearly basis. [RCSA §22a-174-38(h)(4)] This manual shall include the use and determination of the non-hazardous industrial wastewater and landfill leachate reuse and recycling at the facility. Any revision to this manual which conflicts or may conflict with any condition in NSR permits P-150-0001 & 0002 shall be reviewed by the commissioner and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [P-150-0001 & 0002 Part V.B]

ii. The Permittee shall establish a training program to review the MWC O&M Manual with each person who has responsibilities affecting the operation of the plant. The training program shall be repeated on an annual basis for each person. [P-150-0001 & 0002 Part V.C]

iii. The Permittee shall develop a site-specific MWC Operating and Maintenance Manual with an index. Such MWC Operating and Maintenance Manual shall include: [RCSA §22a-174-38(h)(4)]

A. A summary of the applicable emission limits and operational requirements

B. A description of basic combustion theory application to a MWC unit

C. Procedures for receiving, handling, and feeding municipal solid waste

D. Procedures for startup, shutdown, and malfunction

E. Procedures for maintaining proper combustion air supply levels

F. Procedures for operating the combustor within the standards established under RCSA §22a-174-38

G. Procedures for responding to periodic upset or off-specification conditions

H. Procedures for minimizing particulate matter carryover

I. Procedures for handling ash

J. Procedures for monitoring emissions

K. Procedures for reporting and record keeping

iv. The Permittee shall establish a training program to review the MWC Operating and Maintenance Manual with each person who has responsibilities affecting the operation of a MWC plant including, but not limited to chief operator, shift operator, ash handler, maintenance employee, and crane/load handler. The Permittee shall train new employees with the job positions identified above prior to each new employee's assumption of any responsibilities at a MWC plant. Following initial training, the training program shall be repeated on an annual basis for each person identified above. [RCSA §22a-174-38(h)(5)]

v. The Operating and Maintenance Manual shall be kept in a location readily accessible to all persons identified in RCSA §22a-174-38(h)(5) and shall be available for inspection by the commissioner or Administrator. [RCSA §22a-174-38(h)(6)]

b. Monitoring Requirements

None

c. Record Keeping Requirements

The Permittee shall make and keep records of the name of each person that has reviewed the O&M manual, the date of initial review and the date of the annual review. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

i. The Permittee shall submit any revision to this manual which conflicts or may conflict with any condition of permits 150-0001 & 0002 to the commissioner for review and shall receive the commissioner's written approval prior to incorporating such revision in the O&M Manual. [P-150-0001 & 0002 Part V.B]

ii. The Permittee submit all required reports in accordance with Section VI.E of this permit.

24. Control Equipment Malfunction:

a. Limitation or Restriction

i. In addition to complying with the requirements of RCSA §22a-174-7, the Permittee shall also comply with the following conditions: [P-150-0001 & 0002 Part VIII]

A. Except as otherwise provided in P-150-0001 & 0002 or in RCSA §22a-174-38, the Permittee shall only be allowed to operate this MWC during shutdown of air pollution control equipment when there is a malfunction of such air pollution control equipment and as allowed under RCSA §22a-174-7(b). The period for which the facility will be allowed to operate during shutdown of the air pollution control equipment shall not exceed the burnout of the MWC's charge at the time of the shutdown of the air pollution control equipment. No MSW may be charged into the hopper following a shutdown of the air pollution control equipment until after the air pollution control equipment has been put back on-line.

B. In the event of a malfunction of this unit's acid gas control system, the baghouse must function properly and be adequately protected from the MWC's combustion gases.

C. None of the above conditions shall exempt the Permittee from compliance with any other condition of P-150-0001 & 0002 or with any other applicable federal or state regulation.

25. Support Requirements:

a. Limitation or Restriction

i. The Permittee shall institute and comply with the following conditions at all times: [P-150-0001 & 0002 Part IX.C]

A. Sufficient weather-sheltered storage capacity for residual particulates, bottom ash and dry scrubber residue shall be provided on the premises.

B. All vehicular traffic areas of the premises shall be paved.

C. Transfer, storage, and transportation on the premises, of materials collected from the MWC grates and air pollution control equipment shall be transferred in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.

D. The Permittee shall implement a cleanup program on the premises whereby any refuse, MSW or other materials will be collected.

E. The public shall not have uncontrolled access to any portion of this premises. The Permittee shall be in compliance with the requirements of RCSA §22a-174-18(c), requirements which pertain to the control of fugitive dust emissions.

26. Enforcement Considerations:

a. Limitation or Restriction

i. CEM data and stack testing data shall, unless otherwise specified in this permit, be used to determine compliance with the pollutant emission limits in this permit. [P-150-0001 & 0002 Part X.A]

ii. Pursuant to RCSA §22a-6b-602(f)(1), the Permittee is hereby advised of its liability for assessment of civil penalties for any violation of this permit. [P-150-0001 & 0002 Part X.B]

iii. Nothing in P-150-0001 & P-150-0002 or in the above enforcement protocol shall be deemed to limit the authority of the CT DEEP or U.S. EPA to seek penalties, injunctive relief or any other available enforcement measures for violation of pollution emission limits or permit conditions. [P-150-0001 & 000 2 Part X.C]

Section III: Applicable Requirements and Compliance Demonstration

B. EMISSIONS UNIT 3 (EU3): Ash conveying System

1. Fugitive Ash Emissions

a. Limitation or Restriction

i. The Permittee shall not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system, including conveyor points, in excess of five percent (5%) of the observation period (i.e. nine (9) minutes per three-hour period). [RCSA §22a-174-38(f)(1)]

ii. The above emission limit does not cover visible emissions discharged into the atmosphere from buildings and enclosures of ash conveying systems. [RCSA §22a-174-38(f)(2)]

iii. The provisions specified in RCSA §22a-174-38(f)(1) do not apply during maintenance and repair of ash conveying systems, however, all reasonable measures to control fugitive emissions on such occasions shall be implemented. [RCSA §22a-174-38(f)(3)]

b. Monitoring Requirements

i. The Permittee shall conduct an annual performance test for fugitive ash emissions for each MWC at least once per calendar year. [RCSA §22a-174-38(i)(2)]

ii. The Permittee shall conduct the performance test in accordance with RCSA §22a-174-38(i)(4)(I).

c. Record Keeping Requirements

The Permittee shall make and keep records of the test reports and supporting calculations of all annual performance tests conducted to determine compliance with the emission limit for fugitive ash. [RCSA §22a-174-38(k)(10)]

d. Reporting Requirements

i. The Permittee shall submit an annual report to the commissioner no later than January 30 of each year following the calendar year in which data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during annual performance tests.
[RCSA §22a-174-38(l)(3)(A)(I)]

ii. The Permittee shall provide written notification to the commissioner within 72 hours of the time at which the Permittee receives information regarding performance test results indicating that any fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)] [P-150-0001 & 0002 Part IV.P]

Section III: Applicable Requirements and Compliance Demonstration

C. EMISSIONS UNIT 4 (EU4): Caterpillar 455kW Diesel Generator, Model 3412 DIT [RSCA 22a-174-3b(e); 40 CFR Part 63 Subpart ZZZZ] (RICE MACT Designation: Emergency, Existing CI, ≥500 bhp, Constructed before 12/19/2002)

1. Operational Conditions

a. Limitation or Restriction

i. The Permittee shall not exceed 300 hours of operation during any twelve (12) month rolling aggregate.
[RCSA §22a-174-3b(e)(2)(C)]

ii. Operation of the engine for readiness testing and maintenance checks shall be less than 100 hours per calendar year and in accordance with 40 CFR 63.6640(f)(2)(i).

iii. Any nongaseous fuel consumed shall not exceed the sulfur content of motor vehicle diesel fuel as defined in RCSA 22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

b. Monitoring Requirements

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

ii. Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. Each shipping receipt and certification shall be kept on site and available for inspection by the Bureau upon request. [RCSA 22a-174-33(j)(1)(K)(ii);]

iii. The Permittee shall monitor the fuel usage for the Caterpillar diesel generator, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

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

ii. The Permittee shall make and keep records of the sulfur content of the No. 2 fuel oil used by the Caterpillar diesel generator. [RCSA §22a-174-3b(e)(3)] Any of the following records are sufficient to demonstrate the sulfur content of fuel used: (1) a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider; (2) a sales receipt for the sale of motor vehicle diesel fuel from a retail location; or (3) 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)]

iii. The Permittee shall make and keep records of the annual fuel usage in gallons per year for the Caterpillar diesel generator. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

i. The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

2. NOx

a. Limitation or Restriction

There are no limitations on the emissions of NOx. However, there are record keeping and reporting requirements. [RCSA §22a-174-22(b)(5)

b. Record Keeping Requirements

i. The Permittee shall keep the following records: [RCSA §22a-174-22(l)(1)(A)(D)(E) & (J)]

A. Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use;

B. Records of all tune-ups, repairs, replacement of parts and other maintenance;

C. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22; and

D. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22.

E. The Permittee shall make and keep records using manufacturer's emission data, AP-42 or other approved emissions factors and the calculations of particulate matter emissions to demonstrate compliance with the particulate matter emission standard. [RCSA §22a-174-4(d)(1)]

ii. The Permittee shall calculate and record monthly and consecutive 12 month NOx emissions in units of tons/month and tons/year for the preceding month. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

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

ii. The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

3. Particulate Matter (PM):

a. Limitation or Restriction

i. (**FEDERALLY ENFORCEABLE SIP REQUIREMENT**) Emissions of particulate matter shall not exceed 0.1 lbs/MMBtu heat input.

ii. (**STATE-ONLY REQUIREMENT**) The Permittee of any stationary reciprocating internal combustion engine that is an emergency engine, as defined in RCSA §22a-174-22(a)(2) and has a maximum continuous brake horsepower output rating, as specified by the manufacturer, greater than or equal to 175 bhp shall not be subject to the particulate matter emissions standards of RCSA §22a-174-18(e). [RCSA §22a-174-18(j)(6)]

b. Record Keeping Requirements

i. The Permittee shall make and keep records using manufacturer's emission data, AP-42 or other approved emissions factors and the calculations of particulate matter emissions to demonstrate compliance with the particulate matter emission standard. [RCSA §22a-174-4(d)(1)]

ii. The Permittee shall calculate and record monthly and consecutive 12 month PM emissions in units of tons/month and tons/year for the preceding month. The consecutive 12 month emissions shall be determined by adding 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 each month. [RCSA §22a-174-4(d)(1)]

c. Reporting Requirements

The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

D. EMISSIONS UNIT 5 (EU5): Cold Solvent Cleaner

1. Operational Conditions

a. Limitation or Restriction

i. The Permittee shall meet the following requirements for any cold cleaning unit with an internal volume greater than one liter and using solvents containing greater than five percent VOCs by weight, except as provided in RCSA §22a-174-20(l)(6), (7) or (8):
[RCSA §22a-174-20(l)(3)]

A. Equip the cleaning device with a cover that is easily operated with one hand. Unless it is exempted per RCSA §22a-174-20(l)(6).

B. Equip the cleaning device with an internal rack or equipment for draining cleaned parts so that parts are enclosed under the cover while draining. Such drainage rack or equipment may be external for applications where an internal type cannot fit into the cleaning system. Unless it is exempted per RCSA §22a-174-20(l)(6).

C. Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements.

D. On or after May 1, 2008, use only solvent that has a vapor pressure less than or equal to 1.0 mmHg at 20 degrees Celsius. Unless it is exempted per RCSA §22a-174-20(l)(8).

E. Shall not clean sponges, fabric, wood, leather, paper and other absorbent material in a cold cleaning machine.

ii. The Permittee shall meet all of the following required work and operational practices as applicable:

A. Collect and store waste solvent in closed containers. Closed containers used for storing waste solvent may contain a device that allows pressure relief but does not allow liquid solvent to drain from the container. [RCSA §22a-174-20(l)(3)(C)]

B. Close the cover if parts are not being handled in the cleaner for two minutes or more, or if the device is not in use. Except if it is exempt per RCSA §22a-174-20(l)(6). [RCSA §22a-174-20(l)(3)(D)]

C. Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA §22a-174-20(l)(3)(E)]

D. If a degreasing solvent spray is used: (i) Supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray), (ii) maintain a solvent spray pressure that does not exceed ten pounds per square inch as measured at the pump outlet, and (iii) perform spraying within the confines of the cold cleaning unit. Except if it is exempt per RCSA §22a-174-20(l)(7). [RCSA §22a-174-20(l)(3)(F)]

E. Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between one and two meters upwind, at the same elevation as the tank lip. Except if it is exempt per RCSA §22a-174-20(l)(7). [RCSA §22a-174-20(l)(3)(G)]

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

b. Monitoring Requirements

The Permittee shall monitor the amount of solvent added monthly to the cold cleaning unit by keeping a monthly log. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

i. The Permittee shall maintain and keep the following records:
[RCSA §22a-174-20(l)(3)(J)]

A. The type of solvent used, including a description of the solvent and the solvent name,

B. The vapor pressure of the solvent in mmHg measured at 20 degrees Celsius (68 degrees Fahrenheit),

C. The percent VOC content by weight, and

D. The amount of solvent added to each unit on a monthly basis.

d. Reporting Requirements

i. The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

E. EMISSIONS UNIT 6 (EU6): Clean Burn Energy Systems CB-2500 Used Oil Space Heater

1. Operational Conditions

a. Limitation or Restriction

Used oil fired in this unit shall be non-hazardous and meet the specifications found in 40 CFR §279.11.

b. Monitoring Requirements

The Permittee shall perform analyses or obtain copies of analyses or other information documenting that the used fuel oil meets the specifications of 40 CFR §279.11, Table 1. [40 CFR §279.72(a)]

c. Record Keeping Requirements

The Permittee shall perform analyses or obtain copies of analyses or other information documenting that the used fuel oil meets the specifications of 40 CFR §279.11

d. Reporting Requirements

The Permittee submit all required reports in accordance with Section VI.E of this permit of this permit.

F. PREMISES-WIDE GENERAL REQUIREMENTS

Premises-Wide General Requirements

1. Annual Emission Statements: The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).

2. Emergency Episode Procedures: The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.

3. Reporting of Malfunctioning Control Equipment: The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.

4. Prohibition of Air Pollution: The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.

5. **Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.

6. **Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.

7. **Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.

8. **Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.

9. **No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.

10. **Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.

11. **Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.

12. **Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18. (Section 18 approved by EPA on 9-23-1982, current Regulation submitted to EPA on 12-1-2004.)

13. **Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §22a-174-19.

14. **Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.

15. **Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22.

16. **Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).

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

18. **Municipal Waste Combustors:** The Permittee shall comply with the standards for municipal waste combustors as set forth in RCSA §22a-174-38.

Section IV: Compliance Schedule

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

Section V: State Enforceable Terms and Conditions

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

State Enforceable Terms and Conditions

A. This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.

B. Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.

C. Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.

D. Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.

E. Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

F. Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).

G. Fuel Sulfur Content: The Permittee shall not use No. 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.

H. The Permittee shall comply with the requirements for Control of Carbon Dioxide Emissions as set forth in RCSA §22a-174-31.

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Section VI: Title V Requirements

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

Title V Requirements

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

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

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

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

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

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

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

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

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

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

2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:

    i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,

    ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and

    iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]
The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

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

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]
A Permittee, required to perform monitoring pursuant this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

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

F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]
Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section VI: Title V Requirements

Title V Requirements

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]
The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]
This Title V permit shall not be deemed to:

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

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]
The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

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

O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]
The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]
It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]
The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]
This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not

parties to this Title V permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]
The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]
The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR §§70.4(b)(12)(i) to (iii)(B), inclusive, and 40 CFR §§70.4(b)(14)(i) to (iv), inclusive, without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

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

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

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

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

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

W. REVOCATION [RCSA §22a-174-2a(h)]
The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has

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.