Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("Department" or "MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]:
Upper Blackstone Water Pollution
Abatement District
50 Route 20
Millbury, Massachusetts 01527

INFORMATION RELIED UPON:
Application No. CE-14-012
Renewal Application Transmittal #X258160

FACILITY LOCATION:
Upper Blackstone Water Pollution
Abatement District
50 Route 20
Millbury, MA 01527

FACILITY IDENTIFYING NUMBERS:
AQ ID: 118-0937
FMF FAC NO. 132269
FMF RO NO. 51582

NATURE OF BUSINESS:
Municipal Sewage Sludge Incineration

STANDARD INDUSTRIAL CODE (SIC):
4952
N. AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS): 221320

RESPONSIBLE OFFICIAL:
Name: Karla H. Sangrey
Title: Engineer-Director/Treasurer

FACILITY CONTACT PERSON:
Name: Dennis Lowe
Title: Regulatory Compliance Engineer
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This operating permit shall expire on June 2, 2025.

For the Department of Environmental Protection

Permit Chief, Bureau of Air and Waste

June 2, 2020
Date

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SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00: Appendix C and applicable rules and regulations, the Permittee is authorized to operate air emission units as shown in Table 1 and exempt, and insignificant activities as described in 310 CMR 7.00:Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this permit.

A. DESCRIPTION OF FACILITY AND OPERATIONS

The facility is a sewage treatment facility that collects, treats, and disposes of wastewater and biosolids (also known as sewage sludge). Biosolids are incinerated in two multiple hearth incineration (MHI) units. The add-on air pollution control systems serving each MHI include a venturi, an impingement tray scrubber, a wet electrostatic precipitator (WESP), and a regenerative thermal oxidizer (RTO). Flue gas recirculation (FGR) systems are integral to the MHI process. Support equipment includes storage tanks, emergency generators, and odor control devices.

The facility is an operating permit source because potential NOx emissions exceed the 50 TPY threshold for major source classification, and because the facility is subject to the New Source Performance Standard (NSPS) 40 CFR 60 Subpart O and the National Emission Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR Part 61 Subparts C and E, as well as 40 CFR Part 62 Subpart LLL. The facility is an area source of Hazardous Air Pollutants (HAP).

Federal applicable air regulatory requirements are listed as follows, by emission unit type:

EU1 and EU2 (MHI units):

- 40 CFR Part 60 Subpart O – Standards of Performance for Sewage Treatment Plants
- 40 CFR Part 61 Subpart C – National Emission Standard for Beryllium
- 40 CFR Part 61 Subpart E – National Emission Standard for Mercury
- 40 CFR Part 62 Subpart LLL – Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010
- 40 CFR Part 64 – Compliance Assurance Monitoring (CAM)

EU6 (Fuel Delivery System):

- 40 CFR Part 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities

EU8 and EU9 (Emergency Generators):

- 40 CFR Part 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

MassDEP is not currently the delegated authority to implement and enforce the Federal Plan requirement listed above. Subpart LLL is enforced exclusively by EPA until they formally delegate to Massachusetts. The Subpart LLL requirements are enumerated in Tables 3A, 4B, 5A, 6A, and 8A as “Federal Only from 40 CFR 62 Subpart LLL”.

The facility’s EU10 (Weil-McLean Boiler) is not subject to 40 CFR Part 63 Subpart JJJJJJ, Subpart JJJJJJ (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources)

because it burns only natural gas.

The facility was previously subject to CAM for particulate matter (PM), sulfur dioxide (SO_2), and volatile organic compounds (VOCs). Pursuant to the Federal Plan, the facility has developed continuous compliance determination methods for PM and SO_2 which replace the previous CAM methods for PM and SO_2. However, the Federal Plan did not address VOC, so the previously imposed CAM requirements for VOC remain in effect.

Incidentally, the facility is also subject to the following Clean Water Act rule that governs air emissions from sewage sludge incinerators: 40 CFR Part 503 Subpart E – Standards for the Use or Disposal of Sewage Sludge. Pursuant to 40 CFR 503.40(c)(1), the exit gas from the incinerator stack is monitored continuously for carbon monoxide. The same carbon monoxide monitor serves to demonstrate compliance with the facility carbon monoxide limit under Plan Approval CE-18-006 and the CAM requirements for VOC.

Gasoline dispensing activities at the facility were previously regulated by Stage II organic vapor control requirements. These operations are now regulated by Stage I organic vapor control requirements.

Compared to the previous Operating Permit, this Operating Permit contains new or modified requirements for the two incinerators under Plan Approval CE-18-006 and 40 CFR 62 Subpart LLL; modified and/or new requirements for the gasoline dispensing facilities under 310 CMR 7.24 and 40 CFR Subpart CCCCCC; and modified requirements for the biofilter serving the sludge dewatering operations under Plan Approval CE-14-006.

Massachusetts Greenhouse Gas Reporting Program
The Permittee is subject to the requirements of Greenhouse Gas Emissions Reporting as defined by MassDEP in 310 CMR 7.71(3)(a).

Pursuant to 310 CMR 7.71(2) *Definitions*:

Greenhouse Gas means any chemical or physical substance that is emitted into the air and that MassDEP may reasonably anticipate will cause or contribute to climate change including, but not limited to, CO_2, CH_4, N_2O, SF_6, hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs).

2. EMISSION UNIT IDENTIFICATION

The following emission units (Table 1) are subject to and regulated by this Operating Permit:

Table 1

EU	Description of EU	EU Design Capacity	Pollution Control Device (PCD)
1	10 Hearth Envirotech Sludge Incinerator #1	3.0 dry tons/hour	Venturi scrubber, tray scrubber, either wet electrostatic precipitator (WESP #1 or WESP #2), and either regenerative thermal oxidizer (RTO A or RTO B)
2	10 Hearth Envirotech Sludge Incinerator #3	3.0 dry tons/hour	Venturi scrubber, tray scrubber, either wet electrostatic precipitator (WESP #1 or WESP #2), and either regenerative thermal oxidizer (RTO A or RTO B)
4	Sludge holding tanks	N/A	Carbon filters

Table 1			
EU	**Description of EU**	**EU Design Capacity**	**Pollution Control Device (PCD)**
5	Screen Buildings, grit channels, wet weather grit channels and primary settling tank influent channel and effluent weirs	N/A	Biofilter
6	Fuel delivery system	1000 gallon gasoline above ground storage tank	Submerged fill, vapor balance (for tank filling), and Stage I vapor recovery (for dispensing system).
7	Sludge processing and dewatering	22,500 to 27,500 cubic feet per minute	Biofilter
8	Kohler 250REOZV emergency generator set with D250 9.6A60 engine fired with diesel fuel.	2.912 MMBTU/hr 355 brake horsepower	None
9	Kohler 275REOZV emergency generator set with Volvo TAD1240GE engine fired with diesel fuel.	2.772 MMBTU/hr 368 brake horsepower	None
10	Weil McLean natural gas fired boiler	6.445 MMBtu/hr heat input capacity	None

Table 1 Key

EU = Emission Unit	PCD = Pollution Control Device
RTO = Regenerative Thermal Oxidizer	MMBTU/hr = Million British Thermal Units Per Hour = 1,000,000 BTU Per Hour

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2	
Description of Current Exempt Activities	**Reason**
The list of current exempt activities is contained in the Operating Permit application and shall be updated by the Permittee to reflect changes at the facility over the Permit term. An up-to-date copy of exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00: Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. OPERATIONAL AND/OR PRODUCTION EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the limits/restrictions as contained in Tables 3 and 3A below:

Table 3

EU	Fuel/Raw Material	Pollutant	Emissions Limits/Standards	Operational and/or Production Limits	Applicable Regulation and/or Approval No.
1 and 2 (each unit)	Sewage Sludge, Natural Gas, ULSD	CO	150 ppmvd @ 7% O_2, or 98% DRE, whichever is less stringent[1,6]	1. Sludge throughput to any incinerator in service shall not exceed 3.0 dry tons per hour 2. Sludge feed to any incinerator shall not be started until its RTO has reached the minimum operating temperature, as established during the most recent stack test 3. RTO operating temperature shall be maintained at or above the minimum operating temperature,[5] as established during the most recent stack test 4. Supplemental fuel shall consist of natural gas and ULSD only in the incinerators	Plan Approval CE-18-006 310 CMR 7.05(1)
		SO_2	16 ppmvd @7% O_2[1]		
		VOC	15 ppmvd @7% O_2[3,] or 99% DRE, whichever is less stringent[1]		
		NOx	162 ppmvd @ 7% O_2[1,2]		
		PM	0.014 grains per dry standard cubic foot[1] (Plan Approval)		
		Pb	122 micrograms per cubic meter[1]		
		Opacity	10% opacity[4]		
		PM	1.3 lb/dry ton sludge		40 CFR Part 60, Subpart O (NSPS)
		Hg	Not to exceed 3200 grams/24 hours		40 CFR Part 61, Subpart E
		Be	Not to exceed 10 grams/24 hours		40 CFR Part 61, Subpart C
1 and 2 combined	Sewage Sludge, Natural Gas, ULSD	PM	12 tons per 12-month rolling period	5. The total annual charge rate of sludge shall not exceed 42,048 dry tons	Plan Approval CE-18-006
		SO_2	15 tons per 12-month rolling period		
		NO_x	105 tons per 12-month rolling period		
		CO	60 tons per 12-month rolling period		
		VOC	10 tons per 12-month rolling period		
4	Sludge holding tank exhaust	H_2S	≤ 2.5 ppmv	Min removal of 95% (at 20-50 ppm inlet)	Plan Approval #W037939
		DMS	≤ 2.0 ppmv	Min removal of 95% for dimethyl sulfide plus other organic compounds (at 10-40 ppm inlet)	
5	Biofilter exhaust	H_2S	≤ 0.5 ppmv	Minimum removal of 99% (at 2-6 ppm inlet)	
		DMS	≤ 0.1 ppmv	Min removal of 90% (at 0.25-0.75 ppm inlet)	

Table 3					
EU	**Fuel/Raw Material**	**Pollutant**	**Emissions Limits/Standards**	**Operational and/or Production Limits**	**Applicable Regulation and/or Approval No.**
4 and 5	Various exhausts	Visible Emissions	≤ 20% opacity for two minutes during any hour, and at no time ≥ 40%		310 CMR 7.06(1)
6	OL (Pv > 1.5 psia[7])	VOC/HAP	N/A	Minimize vapor emissions (see Special Conditions, Table 8 for specific requirements)	310 CMR 7.24(3)
7	Biofilter exhaust	H_2S	≤ 0.5 ppmv and 0.29 tpy		Plan Approval #X259385
		DMS	≤ 0.4 ppmv and 0.42 tpy		
8 and 9	ULSD	SO_2		Sulfur in fuel not to exceed 15 ppm by weight	310 CMR 7.05
Facility-Wide	All	NA	Greenhouse Gas	NA	310 CMR 7.71 (State Only Requirement).

Table 3 Key:

EU = Emission Unit	NO_x = Nitrogen Oxides
CO = Carbon Monoxide	SO_2 = Sulfur Dioxide
PM = Total Particulate Matter (filterable only)	VOC = Volatile Organic Compounds
HAP = Hazardous Air Pollutants	DMS = Dimethyl sulfide
tpy = Tons per consecutive12-month period	ULSD = Ultra-low sulfur distillate oil (15 parts per million by weight sulfur, maximum)
Pb = Lead	Hg = Mercury
H_2S = Hydrogen sulfide	RTO = Regenerative Thermal Oxidizer
DRE = destruction and removal efficiency	Min = Minimum
OL = Organic Liquid	@ 3% O_2 = corrected to 3% oxygen
ppm = Parts per million	psia = Pounds per square inch absolute pressure
ppmv = Parts per million by volume	% = Percent
ppmvd = Parts per million by volume in the dry gas	≤ = Less than or equal to
ppmvd @ 3% O2 = Parts per million by volume, corrected to 3 percent oxygen	> = Greater than
lb - Pound	

Table 3 Notes

1. One-hour averaging period with compliance demonstrated by stack testing.
2. 24-hour daily block average period with compliance demonstrated by continuous emissions monitoring.
3. VOC concentration measured as propane.
4. 6-minute block average period
5. As measured on a 12-hour block average basis
6. Monthly block average period with compliance demonstrated by continuous emissions monitoring.
7. Organic liquid with a vapor pressure greater than 1.5 pounds per square inch absolute (such as gasoline).

Table 3A Federal Only from 40 CFR 62 Subpart LLL				
EU	**Fuel/Raw Material**	**Pollutant**	**Emissions Limits/Standards[1]**	**Operational and/or Production Limits**
1 and 2	Sewage Sludge, Natural Gas, ULSD	PM	≤ 80 milligrams per dry standard cubic meter	1. The Permittee shall meet the following operational limits governed by the compliance testing condition, in accordance with 40 CFR 62.16015(a)(11) and the Administrator approved alternative monitoring plan and Site-Specific Monitoring Plan: a. If compliance testing was conducted at a minimum of 85% of permitted capacity, the sludge feed rate should not exceed the permitted capacity. b. If compliance testing was conducted at less than 85% of permitted capacity, operation will be restricted to 110% of sludge throughput of the maximum demonstrated sewage sludge incineration unit load measured during stack testing for dioxins and furans[6]. 2. The Permittee must establish these operating limits in accordance with 40 CFR 62.15985: a. Site-specific operating requirements for Fugitive emissions from ash handling b. Minimum RTO combustion chamber operating temperature c. Minimum Scrubber Liquid Flow Rate[3,4] d. Minimum Venturi Water Flow Rate[3,4] e. Minimum Combined Scrubber Differential Pressure (DP)[4] f. Minimum Venturi DP[4] g. Minimum Scrubber Liquid pH[3] h. Minimum Flue Gas Recirculation (FGR) Fan Speed[7] i. Minimum power input to the electrostatic precipitator collection plates[5] j. Minimum influent water flow rate at the inlet of the electrostatic precipitator[5,8] 3. The Permittee must operate the SSI under these conditions, in accordance with 40 CFR 62.15945: a. An SSI unit cannot be operated unless a fully trained and qualified SSI unit operator is accessible, either at the facility or can be at the facility within 1 hour. The trained and qualified SSI unit operator may operate the SSI unit directly or be the direct supervisor of one or more other plant personnel who operate the unit. b. If a qualified SSI unit operator is not accessible for more than 8 hours, the SSI unit may be operated for less than 2 weeks by other plant personnel who are familiar with the operation of the SSI unit and who have completed a review of the information specified in §62.15950 within the past 12 months.
		HCl	≤ 1.2 ppmvd	
		CO	≤ 3,800 ppmvd If using continuous monitoring, correction to 7% O_2 does not apply during startup and shutdown.	
		Dioxins/furans (total mass basis)[2]; or	≤ 5.0 nanograms per dry standard cubic meter	
		Dioxins/furans (toxic equivalency basis)[2]	≤ 0.32 nanograms per dry standard cubic meter	
		Hg	≤ 0.28 milligrams per dry standard cubic meter	
		NO_x	≤ 220 ppmvd	
		SO_2	≤ 26 ppmvd	
		Cd	≤ 0.095 milligrams per dry standard cubic meter	
		Pb	≤ 0.30 milligrams per dry standard cubic meter	
		Fugitive emissions from ash handling	VE of combustion ash from an ash conveying system (including conveyor transfer points) for no more than 5% of any compliance test hourly observation period	

Table 3A Key:

EU = Emission Unit	NO_x = Nitrogen Oxides
CO = Carbon Monoxide	SO_2 = Sulfur Dioxide
HCl = Hydrogen chloride	Hg = Mercury
PM = Total Particulate Matter (filterable only)	O_2 = Oxygen
Cd = Cadmium	VOC = Volatile Organic Compounds
VE = Visible Emissions	RTO = Regenerative Thermal Oxidizer
Pb = Lead	@ 7% O_2 = corrected to 7% oxygen
SSI = Sewage sludge incineration	% = Percent
EPA = Environmental Protection Agency	≤ = Less than or equal to
ppmvd = Parts per million by volume in the dry gas	ULSD = Ultra-low sulfur distillate fuel oil

Table 3A Notes:

1. All emission limits are measured at 7-percent oxygen, dry basis at standard conditions.
2. Compliance can be met through either the dioxin/furan emission limit on a total mass basis or the dioxin/furan emission limit on a toxic equivalency basis.
3. For a scrubber designed to control emissions of hydrogen chloride or sulfur dioxide, you are not required to establish an operating limit and monitor scrubber liquid flow rate or scrubber liquid pH if you use the continuous monitoring system specified in 40 CFR § 60.4865(b) and § 40 CFR 60.4885(b) to demonstrate compliance with the emission limit for hydrogen chloride or sulfur dioxide.
4. For a scrubber designed to control emissions of particulate matter, cadmium and lead, you are not required to establish an operating limit and monitor pressure drop across the scrubber or scrubber liquid flow rate if you use the continuous monitoring system specified in 40 CFR § 60.4865(b) and 40 CFR § 60.4885(b) to demonstrate compliance with the emission limit for particulate matter, cadmium and lead.
5. For an electrostatic precipitator designed to control emissions of particulate matter, cadmium and lead, you are not required to establish an operating limit and monitor secondary voltage of the collection plates, secondary amperage of the collection plates or influent water flow rate at the inlet of the electrostatic precipitator if you use the continuous monitoring system specified in 40 CFR § 60.4865(b) and 40 CFR § 60.4885(b) to demonstrate compliance with the emission limit for particulate matter, lead and cadmium.
6. In accordance with the alternative monitoring plan approved on February 11, 2016 by the Administrator, given the provisions of 40 CFR § 60.53b(b) and EPA's authority under 40 CFR § 62.16015 and § 60.8(c).
7. If compliance is demonstrated by stack testing, the Administrator has specified that parametric monitoring of flue gas recirculation (FGR) fan speed is required, with limits established during stack testing as the indicator parameter for NOx.
8. In accordance with the alternative monitoring plan approved by the Administrator, given the provisions of 40 CFR § 60.53b(b) and EPA's authority under 40 CFR § 62.16015 and § 60.8(c), the Permittee shall measure the influent waterflow rate at the inlet of the electrostatic precipitator in lieu of the effluent water flowrate required by 40 CFR 62.15985.

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4, 4A, 4B, 5, 5A, 6, and 6A, below, and 310 CMR 7.00 Appendix C (9) and (10) and applicable requirements contained in Table 3:

Table 4	
EU	**MONITORING/TESTING REQUIREMENTS**
1 and 2	1. In accordance with Plan Approval CE-18-006, the Permittee shall monitor sludge solids content in percent by weight once every eight hours during incinerator operation, by sampling and analysis.
	2. In accordance with Plan Approval CE-18-006, the Permittee shall monitor sulfur content of each new shipment of fuel oil received, to verify that only fuel oil containing a sulfur content no greater than 0.0015 percent by weight is purchased for use in the incinerators. Sulfur content of the fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable ASTM test methods or any other method approved by the MassDEP and USEPA. Fuel sulfur information may be provided by fuel suppliers.
	3. In accordance with Plan Approval CE-18-006, the Permittee shall monitor the following process related parameters at the indicated frequencies: a. Sludge feed rate (pounds/hour, percent dry solids, percent moisture) – once every eight hours and reduced to a 24-hour daily block average for compliance purposes b. Auxiliary fuel feed (natural gas, ULSD) – hourly c. Exhaust gas oxygen content – continuously d. Flue gas recirculation fan speed - continuously e. Venturi pressure drop – continuously f. Venturi liquid flow rate - continuously g. Combined scrubber pressure drop – continuously h. Scrubber inlet and outlet exhaust gas temperatures – continuously i. Scrubber additive caustic feed rate - continuously j. Scrubber liquid flow rate – continuously k. Scrubber liquid pH - continuously l. Wet electrostatic precipitator secondary power (based on secondary voltage and secondary amperage) – continuously m. Wet electrostatic precipitator inlet wash water flow rate – continuously n. Regenerative thermal oxidizer (afterburner) combustion chamber temperature - continuously
	4. In accordance with Plan Approval CE-18-006, the Permittee shall construct the facility to accommodate the emission testing requirements contained herein.
	5. In accordance with Plan Approval CE-18-006, the Permittee shall conduct compliance emission testing for CO and VOC within 180 days after initial startup of each regenerative thermal oxidizer (RTO).
	6. In accordance with Plan Approval CE-18-006, the Permittee shall conduct compliance emissions testing for VOC either at the periodic stack testing frequency required by USEPA in accordance with 40 CFR Part 62 Subpart LLL, or every five years, whichever is more frequent. VOC shall be added to the list of pollutants to be measured during each USEPA required test program. The Subpart LLL list of pollutants currently includes particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans, mercury, oxides of nitrogen, sulfur dioxide, cadmium, and lead.
	7. In accordance with Plan Approval CE-18-006, the Permittee shall install, calibrate, and test a continuous opacity monitor ("COM"), continuous emission monitors ("CEMS") and a data acquisition system ("DAS") to measure and record the levels of oxygen, nitrogen oxides, carbon monoxide, and opacity in the flue gas of both RTOs.
	8. In accordance with Plan Approval CE-18-006, the Permittee shall ensure that the COMS, all CEMS and recording equipment comply with MassDEP approved performance and location specifications. The equipment shall conform to the EPA monitoring specifications in 40 CFR 60.13 and 40 CFR 60 Appendices B and F.
	9. In accordance with Plan Approval CE-18-006, the Permittee shall use and maintain its CEM/COM systems as "direct-compliance" monitors to measure opacity, NOx, CO, and O_2. Direct compliance monitors generate data that legally documents the compliance status of the source. The MassDEP shall utilize the data generated by the "direct-compliance" monitors and MassDEP recognized emission testing and other credible evidence for compliance and enforcement purposes.
	10. In accordance with Plan Approval CE-18-006, the Permittee shall certify all CEM and COM equipment in accordance with 40 CFR Part 60, Appendix B.
	11. In accordance with Plan Approval CE-18-006, the Permittee shall meet quality assurance (QA) and quality control (QC) requirements for all CEM and COM equipment in accordance with 40 CFR Part 60, Appendix F. The Appendix F requirements include the following actions: a. Section 3 requires the Permittee to develop, implement, and update a quality control (QC) program for the CEM systems; b. Section 4 requires calibration drift assessment be performed and recorded on a daily basis; and

Table 4	
EU	**MONITORING/TESTING REQUIREMENTS**
1 and 2	c. Section 5 requires quarterly performance audits, and one of the four audits for each calendar year must be a relative accuracy test audit (RATA).
	12. In accordance with Plan Approval CE-18-006, the Permittee shall operate each CEM/COM and associated recording devices at all times except for periods of CEM/COM calibration checks, zero and span adjustments, preventative maintenance and periods of malfunction.
	13. In accordance with Plan Approval CE-18-006, the Permittee shall obtain and record emission data from the COM and each CEM for at least 95% of the emission unit operating hours every calendar quarter, except for periods of COM and CEMS calibration error checks, zero and span adjustments, maintenance, and periods of malfunction.
	14. In accordance with Plan Approval CE-18-006, the Permittee shall continuously monitor the following emissions in compliance with 40 CFR 60.13 and comply with the emission limits using the following CEM/COM pollutant averaging times: a. Opacity – 6-minute block average (reduce continuous data to 6-minute block averages) b. NO_x – 24-hour block average (reduce continuous data to 1-hour block averages) c. CO - Monthly average d. O_2 – As required to correct NO_x and CO emission concentrations to 7% O_2
	15. In accordance with Plan Approval CE-18-006, the Permittee shall monitor bypass events where flue gas is released to the ambient environment without benefit of air pollution control, by recording the date, time, and duration of the event.
4	16. In accordance with Plan Approval Tr. #W037939, the Permittee shall monitor the carbon bed exhaust for hydrogen sulfide and dimethyl sulfide emissions. The carbon in the bed shall be sampled and analyzed for saturation two times per year. When analysis of a sample from the upper sampling port first indicates saturation for oxidation of hydrogen sulfide or for adsorption of organics, carbon change-out should be scheduled. Once the plant operators gain experience and can estimate the rate of carbon consumption, the sampling and analysis schedule may be adjusted. If practical, carbon change-out should be scheduled during the winter months. Change-out of carbon will also be determined by the results of the hydrogen sulfide testing described in Plan Approval Tr. #W037939,VII.D. (and also in this Operating Permit, Table 4, condition 17). Once the hydrogen sulfide readings exceed the limits stated in Plan Approval Tr. #W037939 Section V (and also in Table 3 of this Operating Permit), a carbon change-out should be scheduled.
4 and 5	17. In accordance with Plan Approval Tr. #W037939, to ensure effective odor control during warm weather months, both the biofilter (EU5) and the carbon beds (EU4) shall be tested by taking grab samples using portable hydrogen sulfide analyzer during the warm weather months. Testing shall be performed once a month from May through September.
	18. In accordance with Plan Approval Tr. #W037939 and 310 CMR 7.13, MassDEP may require testing for any pollutants if deemed necessary to ascertain the mass emission rates and relationship to equipment design and operation. The Permittee shall conduct stack testing when MassDEP has determined that such stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions. Such stack testing shall be: (a) conducted by a person knowledgeable in stack testing, and (b) conducted in accordance with procedures contained in a test protocol which has been approved by MassDEP, and (c) in the presence of a representative of MassDEP when such is deemed necessary in accordance with 310 CMR 7.13(1). (d) Emission testing to demonstrate compliance with emission limits specified in Plan Approval Tr. #W037939 shall be in accordance with EPA approved reference methods unless otherwise approved by EPA and MassDEP or unless otherwise specified.
	19. In accordance with Plan Approval Tr. #W037939, the biofilter and carbon adsorption systems shall be operated and maintained in accordance with the manufacturer's recommended Operation and Maintenance Management Plans.
	20. In accordance with Plan Approval Tr. #W037939, MassDEP at its discretion may require additional emission testing of the odor control systems to demonstrate their odor removal efficiency. Such testing shall be done in accordance with Plan Approval Tr. #W037939 Section VII and may include, in addition, odor panel testing and on property and off property odor surveys.
	21. Monitoring equipment or emission monitoring systems installed for the purpose of documenting compliance with Plan Approval Tr. #W037939 shall be installed, calibrated, maintained and operated by the Permittee in sufficient manner to ensure continuous and accurate operations at all times.
	22. In accordance with Plan Approval Tr. #W037939, the Permittee shall maintain whatever automatic recording devices are required by the approved monitoring plan referenced in Plan Approval Tr. #W037939, in an accurate operating condition.
	23. In accordance with Plan Approval Tr. #W037939, compliance with the allowable opacity limits shall be determined in accordance with EPA method 9, as specified in 40 CFR 60, Appendix A.

Table 4	
EU	**MONITORING/TESTING REQUIREMENTS**
6	24. In accordance with 310 CMR 7.24(3)(d)1., the owner/operator of a motor vehicle fuel dispensing facility shall operate and maintain the Stage I system in accordance with the system's applicable Executive Orders and manufacturers' guidance.
	25. In accordance with 310 CMR 7.24(3)(d)2., the owner/operator of a motor vehicle fuel dispensing facility shall visually inspect or cause to be visually inspected the Stage I system once every seven days to determine that the system and its components are unbroken, correctly installed and functioning. Each visual inspection shall include, but not be limited to, inspection of: coaxial adaptors; fuel and vapor rotatable adaptors; dust caps and gaskets; fuel and vapor spill buckets; drain valves; and pressure/vacuum vent valves. The owner/operator shall ensure that: a. Visual inspections shall be performed only by a person who is trained to operate and maintain the Stage I system in accordance with the applicable manufacturers' guidance
	26. In accordance with 310 CMR 7.24(3)(e)1., Compliance Tests, any owner/operator of a motor vehicle fuel dispensing facility shall conduct the following compliance tests: a. For all Stage I aboveground storage tank systems: i. Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks in Exhibit 4 of CARB Executive Order VR-401-C (June 30, 2013) and CARB Executive Order VR-402-B (April 15, 2013); ii. Static Torque Rotatable Adaptor Test (CARB TP-201.1B; October 8, 2003), if rotatable adaptors are installed; and iii. Pressure/Vacuum Vent Valve Test (CARB TP-201.1E; October 8, 2003).
	27. In accordance with 310 CMR 7.24(3)(e)10., any owner/operator of a motor vehicle fuel dispensing facility, upon written notice from the Department, shall perform such compliance tests as the Department determines necessary to demonstrate the Stage I system is installed and maintained in accordance with the applicable Executive Orders and manufacturers' guidance and shall submit the results to the Department within 14 days of the performance of the tests.
	28. Compliance tests performed to meet the requirements of 310 CMR 7.24(3)(e)1. shall be performed only by a compliance testing company that has submitted a Compliance Testing Company Notification to the Department as required by 310 CMR 7.24(3)(h)1.
7	29. In accordance with Plan Approval Tr. # X259385, the Permittee shall test the biofilter exhaust for hydrogen sulfide by taking exhaust air grab samples and analyzing the sample using a portable hydrogen sulfide analyzer. The testing shall be done at least once per calendar month and once per week if hydrogen sulfide levels are found to be at 0.4 parts per million or higher.
	30. In accordance with Plan Approval Tr. # X259385, the Permittee shall test the biofilter exhaust for dimethyl sulfide by taking exhaust air grab samples and analyzing the samples by ASTM Method D5504 to determine total reduced sulfur compounds. The testing shall be done at least once per calendar month and once per week if hydrogen sulfide levels are found to be at 0.3 parts per million or higher.
	31. Equipment or emission monitoring systems installed for the purpose of documenting compliance with Plan Approval Tr. # X259385 shall be installed, calibrated, maintained, and operated by the Permittee in sufficient manner to ensure continuous and accurate operations at all times.
	32. In accordance with Plan Approval Tr. # X259385, the Department at its discretion may require additional emission testing of the biofilter. Such testing shall consist of analyzing an agreed upon number of grab samples taken during one day. H_2S testing shall be performed using a portable H_2S analyzer. DMS testing shall be performed by taking samples of the outlet (treated) air and analyzing the samples by ASTM Method D5504 to determine total reduced sulfur compounds. Such testing may include, in addition, odor panel testing and on property and off property odor surveys as may be necessary to ascertain the compliance status of the biofilter and sources of odor from the facility.
8 and 9	33. Pursuant to 40 CFR 63.6625(f), the Permittee shall install a non-resettable hour meter if one is not already installed.
8, 9 and 10	34. In accordance with 310 CMR 7.04(4)(a), inspect and maintain the fuel utilization facility in accordance with manufacturer's recommendations and test for efficient operation at least once each calendar year.
Facility-wide	35. In accordance with 310 CMR 7.71(1) and Appendix C(9) the Permittee shall establish and maintain data systems or record keeping practices (e.g. fuel use records, SF6 usage documentation, Continuous Emissions Monitoring System) for greenhouse gas emissions to ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c. 298, § 6. (State Only Requirement).
	36. If and when MassDEP requires it, the Permittee shall conduct emission testing in accordance with USEPA Reference Test Methods and Regulation 310 CMR 7.13.

Table 4 Key:

EU = Emission Unit	ASTM = American Society for Testing Materials
CFR = Code of Federal Regulations	CEM = Continuous Emissions Monitoring
COM = Continuous Opacity Monitoring	ULSD = Ultra-Low Sulfur Distillate Oil
CO = Carbon Monoxide	VOC = Volatile Organic Compounds
USEPA = United States Environmental Protection Agency	RTO = Regenerative Thermal Oxidizer
DAS = Data Acquisition System	EPA = Environmental Protection Agency
NO_x = Nitrogen Oxides	H_2S = Hydrogen Sulfide
CO = Carbon Monoxide	% = Percent
O_2 = Oxygen	CARB = California Air Resources Board

TABLE 4A - Compliance Assurance Monitoring (CAM) Emission Unit 1 and 2 - VOC control at the thermal oxidizer	
Indicator	Carbon Monoxide (CO) CEMs
Measurement approach	For each RTO, CO is monitored using a 40 CFR 503 compliant CEMS
Indicator range	Below monthly limit 100 ppmvd CO, corrected to 7% oxygen
Performance Criteria A. Data Representativeness	CO is a surrogate for VOC in this case since both are products of incomplete combustion
B. Operational Status Verification	Data is recorded at least 75% of operating hr/month and 90% of operating hr/quarter.
C. QA/QC	CEM Testing is performed every three months; Quarterly CGA's and an annual RATA.
D. Frequency of Monitoring	Readings every 6 seconds, recorded daily and archived for five years.

Table 4A Key:

CFR = Code of Federal Regulations	CEM = Continuous Emissions Monitoring
CGA = Cylinder Gas Audit	RATA = Relative Accuracy Test Audit
CO = Carbon Monoxide	VOC = Volatile Organic Compounds
RTO = Regenerative Thermal Oxidizer	ppmvd = part per million by volume in dry gas
% = Percent	

Table 4B Federal Only from 40 CFR 62 Subpart LLL	
EU	**Monitoring And Testing Requirements**
1 and 2	1. In accordance with 40 CFR 62.15990, the Permittee must conduct an air pollution control device inspection according to 40 CFR §62.16015(c) by the final compliance date as specified in §62.15875. All necessary repairs must be completed within 10 days of the inspection date unless written approval from the Administrator is obtained for an alternative date. For air pollution control devices installed after the final compliance date, you must conduct the air pollution control device inspection within 60 days after installation of the control device.

Table 4B
Federal Only from 40 CFR 62 Subpart LLL

EU	Monitoring And Testing Requirements
1 and 2	2. In accordance with 40 CFR 62.16000(a)(3), the Permittee shall conduct annual stack testing (every 11-13 months). If results are below 75% of limit for two consecutive years, triennial testing is allowed (every 37 months) as long as results remain below 75% of limit.
	3. In accordance with 40 CFR 62.16010, the Permittee shall conduct air pollution control device inspections of each air pollution control device used to comply with the emission limits, according to §62.16015(c), no later than 12 months following the previous annual air pollution control device inspection. Within 10 operating days following an air pollution control device inspection, all necessary repairs must be completed unless you obtain written approval from the Administrator establishing a date whereby all necessary repairs of the affected SSI unit must be completed.
	4. The Permittee shall develop a Site-Specific Monitoring Plan according to the requirements in §62.15995. This requirement also applies if the Permittee petitions the Administrator for alternative monitoring parameters under 40 CFR 60.13(i). The Site-Specific Monitoring Plan requirements apply to each continuous monitoring system.
	5. The Permittee shall conduct visible emission testing of fugitive emissions from ash handling through three 1-hour observation periods according to method 22 at 40 CFR part 60, appendix A-7, in accordance with Table 3 of 40 CFR Part 62 Subpart LLL.
	6. The Permittee shall conduct performance testing that consists of a minimum of three test runs conducted under conditions representative of normal operations, as specified in 40 CFR 60.8(c). Emissions in excess of the emission limits or standards during periods of startup, shutdown, and malfunction are considered deviations from the applicable emission limits or standards. The performance tests will be conducted in accordance with 40 CFR 62.16015(a)
	7. When using a continuous monitoring system to demonstrate compliance with the emission limits in Table 3A instead of conducting annual performance testing, the continuous monitoring system must be installed, operated, calibrated and maintained in accordance with 40 CFR 62.16015(b) paragraphs (b)(1) through (6).
	8. When using a continuous automated sampling system instead of conducting annual performance testing, the Permittee must meet the requirements of 40 CFR 62.16015(b)(7).
	9. The Permittee shall continuously monitor sludge feed rate and monitor sludge moisture content via at least one grab sample daily in accordance with 40 CFR 62.15960(f)
	10. The Permittee must install, calibrate (to manufacturers' specifications), maintain and operate a device or method for measuring the use of the bypass stack including date, time and duration if the SSI unit has a bypass stack per 40 CFR 62.16020(d)
	11. The Permittee shall install all sensors that are required for monitoring operating parameters in accordance with the stipulations of 40 CFR 62.15995(a)(3)(ii).
1 and 2	12. In accordance with 40 CFR 62.15985(f), the Permittee shall calculate power input as the product of the secondary voltage and secondary amperage to the electrostatic precipitator collection plates. Both the secondary voltage and secondary amperage must be recorded during the performance test. Such tests require that the Permittee: a. install sensors to measure (secondary) voltage and current to the electrostatic precipitator collection plates. b. conduct a performance evaluation of the electric power monitoring system in accordance with the monitoring plan at the time of each performance test but no less frequently than annually.

Table 4B
Federal Only from 40 CFR 62 Subpart LLL

EU	Monitoring And Testing Requirements
1 and 2	13. The Permittee shall monitor the following process related parameters at the indicated frequencies in accordance with 40 CFR 62 Subpart LLL Table 4, 40 CFR 62.15960, and the Administrator approved Site-Specific Monitoring Plan: a. Sludge feed rate and moisture content – Daily (each 24 hour period) b. Combined pressure drop across the wet scrubber system[2] – Continuously c. Venturi pressure drop[2] – Continuously d. Scrubber liquid flow rate[1,2] – Continuously e. Venturi water flow rate[1,2] – Continuously f. Scrubber liquid pH[1] – Continuously g. Flue gas recirculation fan speed[4] – Continuously h. Secondary amperage and secondary voltage for the purpose of calculating minimum power input to the electrostatic precipitator collection plates[3] - Continuously i. Influent water flow rate at the inlet of the electrostatic precipitator[3,5] – Continuously j. Temperature of the regenerative thermal oxidizer (afterburner) combustion chamber - Continuously
	14. The Permittee shall establish the following minimum operating limits (if applicable) using the specified method in accordance with 40 CFR 62.15985(a) and the Administrator approved Site-Specific Monitoring Plan: a. Minimum Combined pressure drop used to meet the particulate matter, lead and cadmium emission limits in Table 3A, equal to the lowest 4-hour average pressure drop across the wet scrubber system measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits. b. Minimum Venturi pressure drop used to meet the particulate matter, lead and cadmium emission limits in Table 3A, equal to the lowest 4-hour average venturi pressure drop measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits. c. Minimum scrubber liquid flow rate (measured at the inlet), equal to the lowest 4-hour average liquid flow rate measured during the most recent performance test demonstrating compliance with all applicable emission limits. d. Minimum venturi flow rate (measured at the inlet), equal to the lowest 4-hour average venturi flow rate measured during the most recent performance test demonstrating compliance with all applicable emission limits. e. Minimum scrubber liquid pH used to meet the sulfur dioxide or hydrogen chloride emission limits in Table 3A, equal to the lowest 1-hour average scrubber liquid pH measured during the most recent performance test demonstrating compliance with the sulfur dioxide and hydrogen chloride emission limits. f. Minimum flue gas recirculation fan speed percentage[4], equal to the lowest 4-hour average percentage measured during the most recent performance test demonstrating compliance with nitrogen oxides emission limits. g. Minimum regenerative thermal oxidizer (afterburner) combustion chamber operating temperature, equal to the lowest 4-hour average operating temperature measured during the most recent performance test demonstrating compliance with carbon monoxide and dioxin/furan emission limits. h. Minimum power input to the electrostatic precipitator collection plates, equal to the lowest 4-hour average secondary electric power measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits. Power input must be calculated as the product of the secondary voltage and secondary amperage to the electrostatic precipitator collection plates. Both the secondary voltage and secondary amperage must be recorded during the performance test. i. Minimum influent water flow rate[5] at the inlet of the electrostatic precipitator, equal to the lowest 4-hour average influent water flow rate at the inlet of the electrostatic precipitator measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits.

Table 4B Federal Only from 40 CFR 62 Subpart LLL	
EU	**Monitoring And Testing Requirements**
1 and 2	15. The Permittee shall monitor the following emission limits utilizing the indicated method through 3-run average testing per 40 CFR Part 62 Subpart LLL Table 3: a. Particulate matter - Collect a minimum volume of 0.75 dry standard cubic meters sample per run b. Hydrogen chloride - For Method 26, collect a minimum volume of 200 liters per run. For Method 26A, collect a minimum volume of 1 dry standard cubic meters per run c. Carbon monoxide - Collect sample for a minimum duration of one hour per run d. Dioxins/furans (Total mass basis or toxic equivalency basis) - Collect a minimum volume of 1 dry standard cubic meters per run e. Mercury - For Method 29 and ASTM D6784-02 (Reapproved 2008), collect a minimum volume of 1 dry standard cubic meters per run. For Method 30B, collect a minimum sample as specified in Method 30B at 40 CFR part 60, appendix A-8 f. Oxides of nitrogen - Collect sample for a minimum duration of one hour per run g. Sulfur dioxide - For Method 6, collect a minimum volume of 200 liters per run. For Method 6C, collect sample for a minimum duration of one hour per run h. Cadmium - Collect a minimum volume of 1 dry standard cubic meters per run i. Lead - Collect a minimum volume of 1 dry standard cubic meters sample per run
	16. The Permittee shall conduct performance testing of the following emission limits utilizing the indicated method 40 CFR Subpart LLL Table 3: a. Particulate matter – Method 5 at 40 CFR part 60, appendix A-3; Method 26A or Method 29 at 40 CFR part 60, appendix A-8 b. Hydrogen chloride - Method 26 or 26A at 40 CFR part 60, appendix A-8 c. Carbon monoxide - Method 10, 10A, or 10B at 40 CFR part 60, appendix A-4 d. Dioxins/furans (Total mass basis or toxic equivalency basis) - Method 23 at 40 CFR part 60, appendix A-7 e. Mercury - Method 29 at 40 CFR part 60, appendix A-8; Method 30B at 40 CFR part 60, appendix A-8; or ASTM D6784-02 (Reapproved 2008) f. Oxides of nitrogen - Method 7 or 7E at 40 CFR part 60, appendix A-4 g. Sulfur dioxide – Method 6 or 6C at 40 CFR part 40, appendix A-4; or ANSI/ASME PTC-19.10-1981 h. Cadmium - Method 29 at 40 CFR part 60, appendix A-8 i. Lead - Method 29 at 40 CFR part 60, appendix A-8

Table 4B Key:

EU = Emission Unit	ASTM = American Society for Testing Materials
EPA = Environmental Protection Agency	

Table 4B Notes:

1. For a scrubber designed to control emissions of hydrogen chloride or sulfur dioxide, the Permittee is not required to establish an operating limit and monitor scrubber liquid flow rate or scrubber liquid pH if the Permittee uses the continuous monitoring system specified in 40 CFR 60.4865(b) and 40 CFR 60.4885(b) to demonstrate compliance with the emission limit for hydrogen chloride or sulfur dioxide per 40 CFR 62.15985(a)(1).
2. For a scrubber designed to control emissions of particulate matter, cadmium and lead, you are not required to establish an operating limit and monitor pressure drop across the scrubber or scrubber liquid flow rate if the Permittee uses the

continuous monitoring system specified in 40 CFR 60.4865(b) and 40 CFR 60.4885(b) to demonstrate compliance with the emission limit for particulate matter, cadmium and lead per 40 CFR 62.15985(a)(2).

3. For an electrostatic precipitator designed to control emissions of particulate matter, cadmium and lead, the Permittee is not required to establish an operating limit and monitor secondary voltage of the collection plates, secondary amperage of the collection plates or influent water flow rate at the inlet of the electrostatic precipitator if the Permittee uses the continuous monitoring system specified in 40 CFR 60.4865(b) and 40 CFR 60.4885(b) to demonstrate compliance with the emission limit for particulate matter, lead and cadmium per 40 CFR 62.15985(a)(3).
4. If compliance is demonstrated by stack testing, the Administrator has specified that parametric monitoring of flue gas recirculation (FGR) fan speed is required, with limits established during stack testing as the indicator parameter for NOx.
5. In accordance with the alternative monitoring plan approved by the Administrator on February 11, 2016, given the provisions of 40 CFR § 60.53b(b) and EPA's authority under 40 CFR § 62.16015 and § 60.8(c), the Permittee shall measure the influent waterflow rate at the inlet of the electrostatic precipitator in lieu of the effluent water flowrate required by 40 CFR 62.15985.

Table 5

EU	RECORD KEEPING REQUIREMENTS
1 and 2	1. In accordance with Plan Approval CE-18-006, the Permittee shall maintain operating logs to accurately maintain the following records: a. Hours of operation of each of the EUs including start-ups and shutdowns b. Maintenance performed on the EUs, PCDs, ash handling system, and all CEM/COM and other monitoring devices in sufficient detail to show that the equipment is being properly maintained c. All equipment malfunctions (time, date, reason, downtime, when restored, etc.) d. All calibrations critical for the accurate and proper operation of all CEM/COM and other monitoring devices e. All operator training required for the proper operation of the incinerator systems and PCD systems (date(s), personnel attending, subject matter, certification received, etc.) f. All EU fuel use in the incinerators and the RTOs g. All EU sludge solids throughput h. Which EU is operating and which PCD is serving each EU at all times, including a record of changes from one scenario to another contemporaneously with the change.
	2. In accordance with Plan Approval CE-18-006, the Permittee shall maintain records of the minimum RTO operating temperature as established during the most recent USEPA and/or MassDEP compliance test.
	3. In accordance with Plan Approval CE-18-006, the Permittee shall maintain oil analysis results and/or fuel purchase receipts containing sulfur analysis results used to demonstrate compliance with fuel oil sulfur content requirements.
4 and 5	4. In accordance with Plan Approval #W037939, the Permittee shall maintain all records required therein, including records of maintenance, malfunctions and emissions testing.
6	5. In accordance with 310 CMR 7.24(3)(d)2., A current record of all persons trained shall be maintained on site, including the date training was last received and the trainee's printed name and signature acknowledging receipt of the training.
	6. In accordance with 310 CMR 7.24(3)(e)2., Stage I Routine Maintenance and Stage I Minor Modifications. a. In the event of Stage I routine maintenance, a record of all Stage I routine maintenance shall be maintained in accordance with 310 CMR 7.24(3)(d)6. Compliance testing and submittal of a compliance certification to the Department is not required.
	7. In accordance with 310 CMR 7.24(3)(d)7., All records required to be maintained shall be made available to the Department and EPA immediately upon request. If requested records cannot be made immediately available, requested records shall be delivered to the Department and EPA within seven business days of the initial request.
	8. In accordance with 310 CMR 7.24(3)(d)6., Any owner/operator of a motor vehicle fuel dispensing facility shall retain on-site in a centralized location in either hard copy or electronic format, the following records: a. All of the visual inspection checklists for the prior rolling twelve-month period. b. A copy of compliance testing company test results for compliance tests performed during the prior rolling 12-month period. c. A copy of the Stage I system's most recent In-use Compliance Certification in accordance with 310 CMR 7.24(3)(e)4., or, if more recent, a copy of the Stage I system's Installation/Substantial Modification Certification in accordance with 310 CMR 7.24(3)(e)3.

Table 5	
EU	**RECORD KEEPING REQUIREMENTS**
6	d. The date and type of Stage I Routine Maintenance performed in the most recent rolling 12-month period in accordance with 310 CMR 7.24(3)(e)2.a.
	9. In accordance with 310 CMR 7.24(3)(d)5., Every visual inspection shall be recorded on an inspection checklist that contains at a minimum the following information: a. The date each inspection was performed and the name and signature of the person who performed the inspection; b. Any Stage I system component determined to be incorrectly installed, non-functioning or broken; c. Whether any incorrectly installed, non-functioning or broken component was immediately repaired or replaced within 30 days, or whether the transfer of motor vehicle fuel into the motor vehicle fuel storage tank was prohibited until the component was repaired or replaced; and d. The date the incorrectly installed, non-functioning or broken component was repaired or replaced.
	10. In accordance with 40 CFR §63.11116(b), the Permittee shall make records available within 24 hours of a request by MassDEP to document EU6 gasoline throughput..
7	11. In accordance with Plan Approval Tr. #X259385, the Permittee shall maintain all records required therein, including records of monitoring and testing, maintenance, and malfunctions.
8 and 9	12. Pursuant to 40 CFR 63.6655(e), you must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.
	13. Pursuant to 40 CFR 63.6655(f), you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation., If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
Facility Wide	14. In accordance with Plan Approvals Tr. W037939, CE-18-006, X259385, and with 310 CMR 7.00 Appendix C(10)(b), the Permittee shall establish and maintain an up-to-date record keeping system. All records shall be maintained for five (5) years from the date of generation and be readily available to MassDEP personnel and shall include, at a minimum: a. Compliance records sufficient to demonstrate that emissions have not exceeded what are allowed by this approval. Such records may include daily production records, raw material usage rates, fuel receipts, emissions test results, monitoring data and reports. b. Maintenance: A record of routine maintenance activities performed on emission unit, control and monitoring equipment including, at a minimum, the type or a description of the maintenance performed and the date/time the work was completed. c. Malfunctions: A record of all malfunctions on emission unit, control equipment and monitoring equipment including, at a minimum: the date and time corrective actions were initiated; and the date and time corrective actions were completed and the emission unit returned to compliance. d. The Permittee shall maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date of the monitoring sample, measurement, report or initial operating permit application, as required by 310 CMR 7.00 Appendix C(10)(b).
	15. In accordance with Plan Approval CE-18-006, the Permittee shall maintain adequate records on-site to demonstrate compliance status with all operational, production, and emission limits contained in Table 3 above.
	16. In accordance with Plan Approval CE-18-006, the Permittee shall maintain records of monitoring and testing as required by Table 4.
	17. In accordance with Plan Approval CE-18-006, the Permittee shall maintain a copy of this Plan Approval, underlying Application and the most up-to-date SOMP for the EUs and PCDs approved herein on-site.
	18. In accordance with Plan Approval CE-18-006, the Permittee shall maintain a record of routine maintenance activities performed on the approved EU(s), PCD(s) and monitoring equipment. The records shall include, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.

Table 5	
EU	**RECORD KEEPING REQUIREMENTS**
Facility-Wide	19. In accordance with Plan Approval CE-18-006, the Permittee shall maintain a record of all malfunctions affecting air contaminant emission rates on the approved EU(s), PCDs and monitoring equipment. At a minimum, the records shall include: date and time the malfunction occurred; description of the malfunction; corrective actions taken; the date and time corrective actions were initiated and completed; and the date and time emission rates and monitoring equipment returned to compliant operation.
	20. In accordance with Plan Approval CE-18-006, the Permittee shall maintain records to ensure sufficient information is available to comply with 310 CMR 7.12 Source Registration.
	21. In accordance with 310 CMR 7.12(3)(c), copies of Source Registration and other information supplied to MassDEP to comply with 310 CMR 7.12 shall be retained by the facility owner/operator for five years from the date of submittal.
	22. In accordance with 310 CMR 7.71(6)(b) and (c) the Permittee shall keep on site at the facility documents of the methodology and data used to quantify emissions for a period of 5 years from the date the document is created. The Permittee shall make these documents available to MassDEP upon request. (State Only Requirement).

Table 5 Key:

EU = Emission Unit	PCD = Pollution Control Device
CFR = Code of Federal Regulations	CEM = Continuous Emissions Monitoring
COM = Continuous Opacity Monitoring	ULSD = Ultra-Low Sulfur Distillate Oil
EPA = Environmental Protection Agency	RTO = Regenerative Thermal Oxidizer
USEPA = United States Environmental Protection Agency	RICE = Reciprocating Internal Combustion Engine
SOP = Standard Operating Procedure	SMP = Standard Maintenance Procedure

Table 5A Federal Only 40 CFR 62 Subpart LLL	
EU	**Record Keeping Requirements**
1 and 2	1. In accordance with 40 CFR 62.16025, all records must be available on site in either paper copy or computer-readable format that can be printed upon request, unless an alternative format is approved by the Administrator. Each record should contain the calendar date of the record. Records must be retained for a minimum of 5 years.
	2. The Permittee shall maintain records of: a. Final control plan and final compliance including copies of the final control plan and any additional notifications reported under §62.16030 per 40 CFR 62.16025(b). b. Operator training per 40 CFR 62.16025(c). c. Air pollution control device inspections per 40 CFR 62.16025(d). d. Deviation reports per 40 CFR 62.16025(h). e. Equipment specifications and operation and maintenance requirements per 40 CFR 62.16025(i). f. Inspections, calibrations and validation checks of monitoring devices as required under §62.16015 and 62.16020 per 40 CFR 62.16025(j). g. Monitoring plan required under §62.15995 and performance evaluations for continuous monitoring systems required under §62.16000(b)(5) per 40 CFR 62.16025(k). h. Use of bypass stack, including dates, times and durations as required under §62.16020(d) per 40 CFR 62.16025(m).

Table 5A
Federal Only 40 CFR 62 Subpart LLL

EU	Record Keeping Requirements
1 and 2	i. Malfunction occurrences submitted within the annual report in §62.16030(c)(16) per 40 CFR 62.16025(n).
1 and 2	3. The Permittee shall record all daily average values recorded for the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, monitored and calculated as specified in 40 CFR 62.15960(f).
1 and 2	4. In accordance with 40 CFR 62 Subpart LLL Table 4 and the Administrator approved Site-Specific Monitoring Plan, the Permittee shall initially measure the data for the following operating parameters at a frequency of every 15 minute and keep records of the 1-hour averages. The data must be recorded at all times the unit is operating, except for malfunctions and required QAQC activities. For compliance, use the specified compliance period: a. Combined Pressure drop across the wet scrubber system – 12 hour block average b. Pressure drop across the venturi scrubber – 12 hour block average c. Scrubber liquid flow rate – 12 hour block average d. Venturi liquid flow rate – 12 hour block average e. Scrubber liquid pH – 3 hour block average f. Temperature of the Regenerative thermal oxidizer (afterburner) combustion chamber – 12 hour block average g. Flue gas recirculation fan speed[1] – 12 hour block average
1 and 2	5. In accordance with 40 CFR 62 Subpart LLL Table 4, the Permittee shall measure and keep records of the data for the following operating parameters at a frequency of every 1 hour. The data must be recorded at all times the unit is operating, except for malfunctions and required QAQC activities. For compliance, use the specified compliance period: a. Secondary voltage and secondary amperage for the purpose of calculating power to the electrostatic precipitator collection plates – 12 hour block average b. Influent water flow rate[2] at the inlet of the electrostatic precipitator – 12 hour block average
	6. The Permittee shall maintain records of less frequent testing as specified in 40 CFR 62.16025(l): a. If, consistent with §62.16000(a)(3), the Permittee may elect to conduct performance tests less frequently than annually, the Permittee must keep annual records that document that your emissions in the two previous consecutive years were at or below 75-percent of the applicable emission limit in Table 3A, and document that there were no changes in source operations or air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past 2 years. b. If EU1 or EU2 continues to meet the emission limit for a pollutant, the Permittee may elect to conduct performance tests for the pollutant every third year if your emissions are at or below 75-percent of the emission limit, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emission, but each such performance test must be conducted no more than 37 months after the previous performance test.
	7. The Permittee must maintain records of continuous monitoring data. Records of the following data, as applicable as specified in 40 CFR 62.16025(f): a. For continuous emissions monitoring systems, all 1-hour average concentrations of particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans total mass basis, mercury, nitrogen oxides, sulfur dioxide, cadmium and lead emissions. b. For continuous automated sampling systems, all average concentrations measured for mercury and dioxins/furans total mass basis at the frequencies specified in your monitoring plan. c. For continuous parameter monitoring systems, all 1-hour average values for parameters specified in the Administrator approved Site-Specific Monitoring Plan must be recorded. d. Keep records of any notifications under §60.4915(h)(1) of starting or stopping use of a continuous monitoring system for determining compliance with any emissions limit.

Table 5A Federal Only 40 CFR 62 Subpart LLL	
EU	**Record Keeping Requirements**
1 and 2	e. Keep records of any requests under §62.16015(b)(5) that compliance with the emission limits be determined using carbon dioxide measurements corrected to an equivalent of 7-percent oxygen.
	8. The Permittee must maintain records of performance test reports as specified in 40 CFR 62.16025(e): a. The results of the initial, annual and any subsequent performance tests conducted to determine compliance with the emission limits and standards and/or to establish operating limits, as applicable. b. Retain a copy of the complete performance test report, including calculations. c. Keep a record of the hourly dry sludge feed rate measured during performance test runs as specified in §62.16015(a)(2)(i). d. Keep any necessary records to demonstrate that the performance test was conducted under conditions representative of normal operations, including a record of the moisture content measured as required in §62.16015(a)(2)(ii) for each grab sample taken of the sewage sludge burned during the performance test.

Table 5A Key:

EU = Emission Unit	QAQC = Quality Assurance Quality Control

Table 5A Notes:

1. If compliance is demonstrated by stack testing, the Administrator has specified that parametric monitoring of flue gas recirculation (FGR) fan speed is required, with limits established during stack testing as the indicator parameter for NOx.
2. In accordance with the alternative monitoring plan approved by the Administrator, given the provisions of 40 CFR § 60.53b(b) and EPA's authority under 40 CFR § 62.16015 and § 60.8(c), the Permittee shall measure the influent waterflow rate at the inlet of the electrostatic precipitator in lieu of the effluent water flowrate required by 40 CFR 62.15985.

Table 6	
EU	**REPORTING REQUIREMENTS**
1 and 2	1. In accordance with Plan Approval CE-18-006, the Permittee shall submit a quarterly report in writing or in digital format to the MassDEP, Central Regional Office of MassDEP, BAW Permit Chief. The report shall be postmarked or electronically delivered within thirty days (30) following the end of the quarter and shall contain at least the following information: a. The quarterly report from the facility CEMs shall identify any periods of excess emissions in a format acceptable to the Department. b. For each period of excess emissions or excursions from allowable operating conditions, the Permittee shall list the duration, cause, the response taken, and the amount of excess emissions. Periods of excess emissions shall include periods of start-up, shutdowns, malfunction, emergency, equipment cleaning, and upsets or failures associated with the emission control system or CEMs. i. "Malfunction" means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner. Failures caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown are not malfunctions. ii. "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the Permittee, including acts of God, which would require immediate corrective action to restore normal operation, and that causes the Project to exceed a technology based limitation in this Plan Approval, due to unavoidable increases in emissions attributable to the emergency. An emergency does not include noncompliance caused by improperly designed equipment, lack of maintenance, careless or improper operations, operator error, or decision to keep operating despite knowledge of these things. c. A tabulation of periods of operation, including the time of the beginning and ending of startup and shutdown.

Table 6	
EU	**REPORTING REQUIREMENTS**
1 and 2	d. In accordance with 40 CFR Part 60 Appendix F, Section 7, the Permittee shall include a report of all calibration assessment and accuracy audit results in this quarterly report. e. A twelve-month rolling history of emission exceedances for each pollutant monitored by the CEMS and COMS.
	2. In accordance with Plan Approval CE-18-006, the Permittee shall report a summary of all monitoring data and related supporting information to the Department at least every six months in a format and time frequency specified by the Department.
	3. In accordance with Plan Approval CE-18-006, at least 30 days prior to emission testing required by MassDEP, the Permittee shall submit to MassDEP for approval a stack emission pretest protocol.
	4. In accordance with Plan Approval CE-18-006, the Permittee shall summarize and submit to the Department in electronic format the results of stack testing required and as prescribed in the Department's approved pretest protocol. The submittal shall be provided within 60 days of completion of testing.
	5. In accordance with Plan Approval CE-18-006, the Permittee shall notify MassDEP when emission testing is proposed to be done pursuant to 40 CFR 62 Subpart LLL at least 30 days prior to such emission testing.
	6. In accordance with Plan Approval CE-18-006, the Permittee shall summarize and submit to the Department in electronic format the results of stack testing required by USEPA in accordance with 40 CFR Part 62 Subpart LLL within 60 days of completion of testing, including VOC test results which are required by the Department and not by USEPA.
	7. In accordance with Plan Approval CE-18-006, the Permittee shall report the minimum RTO operating temperature as established in accordance with Item 5 of Table 6 during the most recent USEPA and/or MassDEP compliance test. The established operating temperature shall be submitted to the MassDEP, Central Region, BAW Permit Chief within 60 days of completion of compliance testing as part of the test report.
	8. In accordance with Plan Approval CE-18-006, the Permittee shall report to MassDEP events that cause bypassing of flue gas to the ambient environment without benefit of air pollution control for more than 4 hours as soon as possible.
4 and 5	9. In accordance with Plan Approval Tr. #W037939, the Permittee shall notify MassDEP as soon as reasonably practical by telephone or fax after the occurrence of any upsets or malfunctions (i.e., any piece of equipment or device breakdown that causes an excess emission) and in writing within two (2) business days of such event.
6	10. In accordance with 310 CMR 7.24(3)(e)4., Annual In-use Compliance Certification. Except as provided in 310 CMR 7.24(3)(e)5.: a. Any owner/operator of a motor vehicle fuel dispensing facility shall annually submit to the Department within 30 days of performing and passing all applicable compliance tests a fully completed and signed In-use Compliance Certification on a form provided by the Department. b. Any owner/operator of a motor vehicle fuel dispensing facility shall attest to the following: i. The Stage I system is operated and maintained in accordance with the applicable Executive Orders and manufacturers' guidance; and ii. All applicable compliance tests listed in 310 CMR 7.24(3)(e)1. were performed and passed.
	11. In accordance with 310 CMR 7.24(3)(e)5., Alternative Annual In-use Compliance Certification. a. Any owner/operator of a motor vehicle fuel dispensing facility who submits Annual In-use Compliance Certification for two consecutive years in compliance with 310 CMR 7.24(3)(e)4. in which all applicable in-use compliance tests were passed on the first try, as certified pursuant to 310 CMR 7.24(3)(h)8., may elect to submit to the Department an Alternative Annual In-use Compliance Certification on a form provided by the Department. b. An owner/operator meeting the requirements of 310 CMR 7.24(3)(e)5.a. and electing to submit an Alternative Annual In-use Compliance Certification shall be: i. exempt from annual Stage I compliance testing requirements in the first year the Alternative Annual In-Use Compliance Certification is submitted in compliance with 310 CMR 7.24(3)(e)5.a.; and ii. subject to all compliance tests listed in 310 CMR 7.24(3)(e)1. as applicable, in the second year the Alternative Annual In-Use Compliance Certification is submitted, and every other year thereafter. c. Any owner/operator of a motor vehicle fuel dispensing facility who submits an alternative In-use Compliance Certification and fails one or more compliance certification tests on the first try shall, in subsequent years, comply with the requirements of 310 CMR 7.24(3)(e)4., until such time as the owner/operator meets the requirements in 310 CMR 7.24(3)(e)5.a.

Table 6	
EU	**REPORTING REQUIREMENTS**
6	12. In accordance with 310 CMR 7.24(3)(e)6., Determination of Submittal and Receipt Dates: a. The owner/operator of a motor vehicle fuel dispensing facility shall submit the annual certification required by 310 CMR 7.24(3)(e)4. to the Department no later than the anniversary of the receipt date of the most recently submitted: i. Stage I Installation/Substantial Modification Certification; ii. Annual Stage I In-use Compliance Certification; iii. Alternative Annual In-use Compliance Certification; or iv. Stage II Decommissioning Notification. b. If the owner/operator requests a change in the submittal due date, the Department may revise the annual certification submittal due date and shall set a revised submittal due date that is no more than 12 months after the current submittal due date. c. Receipt Date at the Department shall be determined as follows: i. If hand-delivered, the receipt date is the date of the receipt stamp; ii. If mailed, the receipt date is the date of the postmark on the envelope used to submit the document to the Department; or iii. If electronically submitted, the receipt date is the date the electronic submission is sent to the Department.
	13. Any Certification submitted to the Department as required by 310 CMR 7.24(3)(e) shall be signed by a Stage I System Responsible Official as required by 310 CMR 7.24(3)(g).
Facility –wide	14. In accordance with Plan Approval CE-18-006, the Permittee shall submit to MassDEP all information required by this Plan Approval over the signature of a "Responsible Official" as defined in 310 CMR 7.00 and shall include the Certification statement as provided in 310 CMR 7.01(2)(c).
	15. In accordance with Plan Approval CE-18-006 and Plan Approval Tr. #X259385, the Permittee shall notify the Central Regional Office of MassDEP, BAW Permit Chief by telephone or by email: CERO.Air@mass.gov, or fax : 508-792-7621, as soon as possible, but no later than three (3) business day after discovery of an exceedance(s) of Table 3 requirements, an emergency, or a malfunction. A written report shall be submitted to the Permit Chief at MassDEP within ten (10) business days thereafter and shall include: identification of exceedance(s), duration of exceedance(s), reason for the exceedance(s), corrective actions taken, and action plan to prevent future exceedance(s).
	16. The Permittee shall report annually to MassDEP, in accordance with 310 CMR 7.12, all information as required by the Source Registration/Emission Statement Form.
	17. In accordance with 310 CMR 7.71(5), the Permittee shall electronically submit and certify by April 15th of each year a greenhouse gas emissions report to MassDEP. (State Only Requirement).
	18. In accordance with Plan Approval CE-18-006, the Permittee shall summarize and submit to MassDEP the results of stack testing as prescribed in MassDEP's approved pretest protocol, stack testing that was determined by MassDEP to be necessary to ascertain compliance with MassDEP's regulations or design approval provisions in accordance with 310 CMR 7.13(1) and 310 CMR 7.13(2).

Table 6 Key:

EU = Emission Unit	BAW = Bureau of Air and Waste
VOC = Volatile Organic Compounds	RTO = Regenerative Thermal Oxidizer
USEPA = United States Environmental Protection Agency	CERO = Central Regional Office
CEMS = Continuous emissions monitoring system	COMS = Continuous opacity monitoring system

Table 6A Federal Only 40 CFR 62 Subpart LLL	
EU	**REPORTING REQUIREMENTS**
1 and 2	1. The Permittee shall submit the Site-Specific Monitoring Plan for all 40 CFR 62 Subpart LLL related continuous monitoring systems and ash handling system as required by 40 CFR 62.15995. The Site-Specific Monitoring Plan submittal must be updated if there are any changes or potential changes in monitoring procedures or if there is a process change, as defined in 40 CFR 62.16045.
	2. The Permittee shall submit a final control plan as specified in §§62.15875 and 62.15900 in accordance with 40 CFR 62.16030(a)
	3. The Permittee shall submit an initial compliance report no later than 60 days following the initial performance test in accordance with 40 CFR 62.16030(b)
	4. The Permittee shall submit an annual compliance report in accordance with 40 CFR 60.16030(c) The first annual compliance report should be submitted no later than 12 months following the submission of the initial compliance report and all subsequent annual compliance reports submitted no more than 12 months following the previous annual compliance report.
	5. The Permittee shall submit a Deviation report by August 1 of the year that one of the below instances have occurred for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31). The deviation report will be submitted in accordance with 40 CFR 62.16030(d) a. Any recorded operating parameter level is above the maximum operating limit or below the minimum operating limit based on averaging times specified in Table 4 of 40 CFR Part 62 Subpart LLL and the Administrator approved Site-Specific Monitoring Plan. b. Any recorded 24-hour block average emissions level that is above the emission limit, if a continuous monitoring system is used to comply with an emission limit. c. There are visible emissions of combustion ash from an ash conveying system for more than 5-percent of any compliance test hourly observation period. d. A performance test was conducted that deviated from any emission limit in Table 3A. e. A continuous monitoring system was out of control. f. A malfunction (e.g., continuous monitoring system malfunction) occurs that caused or may have caused any applicable emission limit to be exceeded.
	6. In accordance with 40 CFR 16.030(e), if all qualified operators are not accessible for 2 weeks or more, the Permittee shall: a. Submit a notification of the deviation within 10 days that includes a statement of what caused the deviation, a description of actions taken to ensure that a qualified operator is accessible, and the date when you anticipate that a qualified operator will be available. b. Submit a status report to the Administrator every 4 weeks that includes a description of actions taken to ensure that a qualified operator is accessible, the date when you anticipate that a qualified operator will be accessible, request for approval from the Administrator to continue operation of the SSI unit.
	7. The Permittee shall submit a notification of a force majeure in accordance with 40 CFR 62.16030(f) if a force majeure is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure.
	8. The Permittee shall submit these additional notifications and reports in accordance with 40 CFR 62.16030(g): a. The Permittee must notify the Administrator 1 month before starting or stopping use of a continuous monitoring system for determining compliance with any emission limit. b. The Permittee must notify the Administrator at least 30 days prior to any performance test conducted to comply with the provisions of this subpart, to afford the Administrator the opportunity to have an observer present. c. The Permittee must notify the Administrator at least 7 days prior to the date of a rescheduled performance test for which notification was previously made in (b) of this section.
	9. The Permittee shall submit initial, annual and deviation reports electronically or in paper format, postmarked on or before the submittal due dates and shall submit performance tests and evaluations in accordance with 40 CFR 62.16030(h)(2).

Table 6A Key:

EU = Emission Unit	USEPA = United States Environmental Protection Agency
SSI = Sewage sludge incineration	

C. GENERAL APPLICABLE REQUIREMENTS

The Permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et seq. and 310 CMR 8.00 et seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements:

Table 7

Regulation	Reason
310 CMR Sec. 7.16 - Reduction of Single Occupant Commuter Vehicle Use	The facility employs significantly fewer than 250 staff.
310 CMR 7.18(2)-(7) and (8)-(32)	The facility does not perform activities subject to the referenced regulations.

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to the following special provisions that are not contained in Tables 3, 4, 5 and 6:

Table 8

EU	SPECIAL TERMS AND CONDITIONS
1 and 2	1. In accordance with Plan Approval CE-18-006, the Permittee may operate the two sewage sludge incinerator units simultaneously.
	2. In accordance with Plan Approval CE-18-006, the Permittee shall limit charge rate to each individual sludge incinerator (EU 1 and EU 2) to 3.0 dry tons of sludge per hour, except if the emission monitor system for that incinerator is in an "out of control period" as defined in 40 CFR Part 60, Appendix F or under repair, the Permittee shall limit the charge rate to 1.9 dry tons of sludge per hour.
	3. In accordance with Plan Approval CE-18-006, the Permittee shall limit annual sludge throughput to both EU 1 and EU 2 combined to 42,048 dry tons of sludge per year.
	4. In accordance with Plan Approval CE-18-006, the Permittee shall use interlocks to ensure that sludge feed cannot be started to the sludge incinerators until the RTO serving the appropriate sludge incinerator has reached the minimum operating temperature established during the most recent USEPA or MassDEP compliance test.
	5. In accordance with Plan Approval CE-18-006, sludge feed to any incinerator shall not be started until its RTO has reached the minimum operating temperature established during the most recent USEPA or MassDEP compliance test.
	6. In accordance with Plan Approval CE-18-006, the Permittee shall calculate the minimum RTO temperature equal to the lowest 4-hour average RTO temperature measured during the most recent USEPA or MassDEP compliance test demonstrating compliance with CO and VOC emission limits.
	7. In accordance with Plan Approval CE-18-006, the Permittee shall operate the auxiliary incinerator burners using natural gas as the primary fuel. ULSD may be used as a secondary fuel.
	8. In accordance with Plan Approval CE-18-006, the Permittee shall submit documentation to the Department that the COM equipment has been certified by the Performance Specifications of 40 CFR Part 60 Appendix B.

Table 8	
EU	**SPECIAL TERMS AND CONDITIONS**
1 and 2	9. In accordance with Plan Approval CE-18-006, the Permittee shall ensure that the replacement RTOs are installed in accordance with the plans and specifications noted in Plan Approval CE-18-006.
	10. In accordance with Plan Approval CE-18-006, the Permittee shall ensure that the EUs and PCDs are operated in accordance with the SOMP as submitted in the Plan Application and is operated by personnel properly trained in the use of the installed equipment. Modifications to the SOMP shall be submitted to the MassDEP, Central Region, BAW Permit Chief within 90 days of startup of the new RTOs.
	11. In accordance with Plan Approval CE-18-006, the Permittee is prohibited from bypassing of flue gas to the ambient environment without benefit of air pollution control except under emergency conditions.
	12. In accordance with Plan Approval CE-18-006, the Permittee shall maintain on-site for the CEMS an adequate supply of spare parts to maintain the on-line availability and data capture requirements, and shall keep a supply of the manufacturers' recommended spare parts for the PCDs in accordance with good QA/QC practice.
4	13. In accordance with Plan Approval Tr. #W037939, the carbon system shall have two separate beds capable of being used individually or together. Each carbon bed shall have the following minimum dimensions: depth of 3 feet, volume of 84.8 cubic feet.
	14. In accordance with Plan Approval Tr. #W037939, the beds shall be rated at the following minimum removal efficiencies: 95% for hydrogen sulfide at 20-50 ppm inlet concentration; and 95% for dimethyl sulfide plus other organic compounds at 10-40 ppm inlet concentration.
	15. In accordance with Plan Approval Tr. #W037939, the Permittee shall change the carbon beds when the break point of 2.5 ppm of hydrogen sulfide or dimethyl sulfide is reached as determined by the approved monitoring plan reference in Plan Approval Tr. #W037939 item VII.C.
	16. In accordance with Plan Approval Tr. #W037939, the Permittee shall replace spent carbon with fresh carbon as soon as possible after a break point is detected. Until carbon change-out occurs all exhaust shall be directed through the remaining carbon bed while the other is idle and awaiting change-out. Spent carbon shall be placed in leak tight containers and promptly sent off-site for proper recycling/regeneration or disposal.
	17. In accordance with Plan Approval Tr. #W037939, the exhaust stack from the carbon beds shall have an exit height no less than 7 feet above ground level.
5	18. In accordance with Plan Approval Tr. #W037939, the biofilters shall have an empty bed retention time of 25 seconds.
	19. In accordance with Plan Approval Tr. #W037939, the inlet air to the biofilters shall be humidified to a minimum of 95%.
	20. In accordance with Plan Approval Tr. #W037939, scheduled maintenance requiring temporary shut-down of the biofilters shall be done only between October and March.
	21. In accordance with Plan Approval Tr. #No. W037939, the exhaust stack from the biofilters shall have an exit height no less than 10 feet above ground level.
	22. In accordance with Plan Approval Tr. #W037939, biofilters media shall be replaced according to manufacturer's recommended schedule or more frequently if necessary to prevent excessive odor emissions.
4 and 5	23. In accordance with Plan Approval Tr. #W037939, odors shall not cause a condition of air pollution.
6	24. In accordance with 310 CMR 7.24(3)(e)3., Stage I Installation and Substantial Modification Certification. Any owner/operator of a motor vehicle fuel dispensing facility who installs a Stage I system or makes a Stage I substantial modification shall, prior to commencing operation, perform and pass all applicable compliance tests listed in 310 CMR 7.24(3)(e)1. The owner/operator shall submit to the Department within seven business days of performing and passing the tests, a fully completed and signed Installation/Substantial Modification Certification, on a form provided by the Department, attesting to the following: a. The installed or substantially modified Stage I system has been installed, repaired or modified in accordance with the applicable Executive Orders and manufacturers' guidance; and b. All applicable compliance tests listed in 310 CMR 7.24(3)(e)1. were performed and passed.
	25. In accordance with 310 CMR 7.24(3)(e)2., Stage I Routine Maintenance and Stage I Minor Modifications. a. In the event of a Stage I minor modification, applicable compliance tests shall be performed in accordance with 310 CMR 7.24(3)(e)1. and passed prior to commencing system operation and a record of the modification and test results shall be maintained in accordance with 310 CMR 7.24(3)(d)6. Submittal of a compliance certification to the Department is not required. b. Any replacement of a Stage I system component shall be with a CARB EVR component.
	26. In accordance with 310 CMR 7.24(3)(d)4., Any replacement of an incorrectly installed, non-functioning or broken Stage I components shall be with a CARB EVR component and shall be installed in accordance with the

Table 8	
EU	**SPECIAL TERMS AND CONDITIONS**
	applicable Executive Orders and manufacturers' guidance, except that an existing non-EVR "slip-on" spill bucket may be repaired (including replaced) until seven years from January 2, 2015 and may be used after seven years from January 2, 2015 until it needs to be repaired or replaced.
	27. In accordance with 310 CMR 7.24(3)(d)3., Upon determining during a visual inspection that a Stage I system component is incorrectly installed, non-functioning or broken, the owner/operator of a motor vehicle fuel dispensing facility shall: a. Immediately repair or replace the component; or b. If repairs or replacements cannot be made immediately, repair or replace the component within 30 days of the visual inspection date, or c. If a component cannot be repaired or replaced within 30 days of the visual inspection date, the transfer of motor vehicle fuel into the motor vehicle fuel storage tank equipped with the incorrectly installed, non-functioning or broken component is prohibited until the component is repaired or replaced.
6	28. In accordance with 310 CMR 7.24(3)(e)7, any owner/operator of a motor vehicle fuel dispensing facility whose Stage I system fails one or more in-use compliance tests required by 310 CMR 7.24(3)(e)1. shall: a. Immediately repair or replace the incorrectly installed, nonfunctioning or broken component in accordance with the applicable Executive Orders and manufacturer's guidance; b. If any Stage I system component is replaced, it shall be replaced with a CARB EVR component and installed in accordance with the applicable Executive Orders and manufacturers' guidance; c. Continue to repair or replace and re-test until each failed test is passed; and d. Submit to the Department an Annual In-use Compliance Certification on or before the facility's Annual In-use Compliance Certification submittal due date or within 30 days of the date of the first passing test result, whichever occurs first.
	29. In accordance with 310 CMR 7.24(3)(e)8. if a Stage I system fails one or more required in-use compliance tests and the system cannot be repaired as required by 310 CMR 7.24(3)(e)7., the owner/operator of a motor vehicle fuel dispensing facility shall not transfer or allow the transfer of motor vehicle fuel into the motor vehicle fuel storage tank equipped with the failing Stage I system until the system is repaired in accordance with the applicable Executive Orders and manufacturers' guidance and all applicable compliance testing, record keeping and certification requirements for routine maintenance, minor modification or substantial modification of a Stage I system are complied with.
6	30. In accordance with 40 CFR §63.11116: a) The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. b) The Permittee shall comply with the requirements of 40 CFR Subpart CCCCCC by the applicable dates specified in §63.11113. c) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.
7	31. In accordance with Plan Approval Tr. #X259385, odors from the sludge handling facility shall not cause a condition of air pollution at any time.
	32. In accordance with Plan Approval Tr. #X259385, the Permittee shall maintain the empty bed retention time of the biofilter at a minimum of 45 seconds when operating on two beds.
	33. In accordance with Plan Approval Tr. #X259385, the inlet air to the biofilter shall be humidified to a minimum of 95%
	34. In accordance with Plan Approval Tr. #X259385, the Permittee shall perform scheduled maintenance requiring the planned shutdown of one of the two beds between October and March. The Permittee shall notify MassDEP 10 days in advance of the shutdown.

Table 8	
EU	**SPECIAL TERMS AND CONDITIONS**
7	35. In accordance with Plan Approval Tr. #X259385, the exhaust gas from the biofilter shall be vented through one of the flues in the existing stack serving the RTO's which has an exit height of 125 feet above ground level.
	36. In accordance with Plan Approval Tr. #X259385, the biofilter shall be operated and maintained in accordance with the manufacturer's recommended Operation and Maintenance Management Plans. Biofilter media shall be replaced according to manufacturer's recommended schedule or more frequently if necessary to prevent excessive odor emissions.
8 and 9	37. EU8 and EU9 are subject to the requirements of 40 CFR 63.1-15, Subpart A, "General Provisions" [as indicated in Table 8 to Subpart ZZZZ of 40 CFR 63]. Compliance with all applicable provisions therein is required.
	38. In accordance with 40 CFR §63.6640(f)(2), the Permittee may operate the emergency engines for any combination of the purposes specified below for a maximum of 100 hours per calendar year. Any operation for nonemergency situations listed below counts as part of the 100 hours per calendar year allowed. a. the Emergency Stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition MassDEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state or local standards require maintenance testing of emergency RICE beyond 100 hours per calendar year.
	39. In accordance with 40 CFR 63.6640(f)(4), the Permittee may operate the emergency stationary RICE for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR 63.6640(f)(2). Except as provided in (A) through (E) below, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator. (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. (D) The power is provided only to the facility itself or to support the local transmission and distribution system. (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
	40. Pursuant to 40 CFR 63.6603 and the referenced Table 2d, for each Emergency stationary CI RICE. a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1] b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
	41. Pursuant to 40 CFR 63.6625(e), you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Table 8 Key:

EU = Emission Unit	VOC = Volatile Organic Compounds
PCD = Pollution Control Device	SOMP = Standard Operating and Maintenance Plan
RTO = Regenerative Thermal Oxidizer	Tr = Transmittal Number
CO = Carbon Monoxide	CFR = Code of Federal Regulations
USEPA = United States Environmental Protection Agency	ULSD = Ultra-low sulfur distillate oil (15 parts per million by weight sulfur, maximum)
BAW = Bureau of Air and Waste	CEM = Continuous Emission Monitor
CMR = Code of Massachusetts Regulations	RICE = Reciprocating Internal Combustion Engine
QAQC = Quality Assurance/Quality Control	CARB = California Air Resources Board
ppm = Parts per million	% = Percent
RICE = Reciprocating Internal Combustion Engine	HAP = Hazardous Air Pollutants
NERC = North American Electric Reliability Corporation	

Table 8 Notes

Note 1: The Permittee has the option to use an oil analysis program as described in 40 CFR 63.6625(i).

Table 8A
Federal Only 40 CFR 62 Subpart LLL

EU	SPECIAL TERMS AND CONDITIONS
1 and 2	1. Within 10 operating days following the air pollution control device inspection, all necessary repairs must be completed unless you obtain written approval from the Administrator establishing a date whereby all necessary repairs of the SSI unit must be completed, in accordance with 40 CFR 62.15990(b).
	2. The Permittee shall conduct initial training of operators within six months of an operator assuming responsibility and conduct annual refresher trainings of operators as specified in 40 CFR §62.15920 - §62.15940.
	3. The Permittee shall establish a program for reviewing the information listed in 40 CFR §62.15920(c)(1) every 12 months, with each qualified operator and each non-qualified person who may operate the unit in accordance with 40 CFR 62.15950.

6. ALTERNATIVE OPERATING SCENARIOS

The Permittee did not request alternative operating scenarios in its operating permit application.

7. EMISSIONS TRADING

A. INTRA-FACILITY EMISSION TRADING

The Permittee did not request intra-facility emissions trading in its Operating Permit application.

B. INTER-FACILITY EMISSION TRADING

The Permittee did not request inter-facility emissions trading in its Operating Permit application.

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5.

In addition, the Permittee shall comply with any applicable requirements that become effective during the permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

The Permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. COMPLIANCE CERTIFICATION

All documents submitted to the MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via MassDEP's web site, http://www.mass.gov/dep/air/approvals/aqforms.htm#op.

A. Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this Operating Permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Air Compliance Clerk, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

1) the terms and conditions of the Permit that are the basis of the certification;
2) the current compliance status and whether compliance was continuous or intermittent during the reporting period;
3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and

4) any additional information required by the MassDEP to determine the compliance status of the source.

B. Semi-Annual Monitoring Summary Report and Certification

The Responsible Official shall certify, semi-annually on the calendar year, that the Facility is in compliance with the requirements of this Permit. The report shall be postmarked or delivered by January 30 and July 30 to MassDEP. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

1) the terms and conditions of the Permit that are the basis of the certification;
2) the current compliance status during the reporting period;
3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
4) whether there were any deviations during the reporting period;
5) if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
6) whether deviations in the reporting period were previously reported;
7) if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
8) if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
9) any additional information required by the MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for Permit termination or revocation, or for denial of an Operating Permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

12. PERMIT SHIELD

A. This Facility has a permit shield provided that it operates in compliance with the terms and conditions of this Permit. Compliance with the terms and conditions of this Permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the Permittee's application and as identified in this Permit.

Where there is a conflict between the terms and conditions of this Permit and any earlier approval or Permit, the terms and conditions of this Permit control.

B. The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.

C. Nothing in this Permit shall alter or affect the following:

1) the liability of the source for any violation of applicable requirements prior to or at the time of Permit issuance.

2) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or

3) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.70, 7.71, 7.72, 7.74, 7.75 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this Permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the MassDEP, EPA and citizens as defined under the Act.

A Permittee shall not claim as a defense 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 Permit.

14. PERMIT TERM

This Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date 5 years after issuance of this Permit.

Permit expiration terminates the Permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this Permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon the MassDEP’s receipt of a complete and timely application for renewal, this Facility may continue to operate subject to final action by the MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the Operating Permit renewal application prior to this Permit's expiration date, this Permit shall remain in effect until the MassDEP takes final action on the

renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

This Permit may be modified, revoked, reopened, and reissued, or terminated for cause by the MassDEP and/or EPA. The responsible official of the Facility may request that the MassDEP terminate the facility's Operating Permit for cause. The MassDEP will reopen and amend this Permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the Permittee for an Operating Permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any Operating Permit condition.

17. DUTY TO PROVIDE INFORMATION

Upon the MassDEP's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall furnish to the MassDEP copies of records that the Permittee is required to retain by this Permit.

18. DUTY TO SUPPLEMENT

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the Facility after the date a complete renewal application was submitted but prior to release of a draft permit.

The Permittee shall promptly, on discovery, report to the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This Permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no other change in the Permit is necessary and provided that a written agreement containing a specific date for transfer of Permit responsibility, coverage and liability between current and new Permittee, has been submitted to the MassDEP.

20. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

21. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the MassDEP, and EPA to perform the following:

A. Enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;

B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and

D. Sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the Operating Permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

The Permittee shall have available at the Facility, at all times, a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the Operating Permit, including any amendments or attachments thereto, upon request by the MassDEP or EPA.

23. SEVERABILITY CLAUSE

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based[1] emission limitations specified in this Permit as a result of an emergency[2]. In order to use emergency

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[1] Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

[2] An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

A. an emergency occurred and that the Permittee can identify the cause(s) of the emergency;

B. the permitted Facility was at the time being properly operated;

C. during the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and

D. the Permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response, immediate notification to the appropriate parties should be made as required by law.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this Permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6 of this Operating Permit shall supersede the following deviation reporting requirements, if applicable.

The Permittee shall report to the MassDEP's Regional Bureau of Air and Waste the following deviations from permit requirements, by telephone, by fax or by electronic mail (e-mail), within three (3) days of discovery of such deviation:

A. Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.

B. Exceedances of parameter limits established by this Operating Permit or other approvals, where the parameter limit is identified by the Permit or approval as surrogate for an emission limit.

C. Exceedances of Permit operational limitations directly correlated to excess emissions.

D. Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, this Operating Permit, or other approvals.

E. Failure to perform QA/QC measures as required by this Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the MassDEP Bureau of Air and Waste Air Operating Permit Reporting

Kit, which is available to the Permittee via the MassDEP's web site, http://www.mass.gov/dep/air/approvals/aqforms.htm#op.
This report shall include the deviation, including those attributable to upset conditions as defined in the Permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone, fax or electronic mail (e-mail) within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Air and Waste within ten (10) days of discovery. For deviations, which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The Permittee is allowed to make changes at the Facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the Permit and in compliance with all applicable requirements provided the Permittee gives the EPA and the MassDEP written notice fifteen (15) days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(h) and (i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the Facility's Permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. MODIFICATIONS

A. Administrative Amendments - The Permittee may make changes at the Facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).

B. Minor Modifications - The Permittee may make changes at the Facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2.,provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).

C. Significant Modifications - The Permittee may make changes at the Facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).

D. No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this Operating Permit. A revision to the Permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an Operating Permit revision under any other applicable requirement.

28. OZONE DEPLETING SUBSTANCES

This section contains air pollution control requirements that are applicable to this Facility, and the United States Environmental Protection Agency enforces these requirements.

A. The Permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

1) All containers containing a class I or class II substance that is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to 40 CFR 82.106.

2) The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.

3) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.

4) No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 82.112.

B. The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in Subpart B:

1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.

2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.

3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

4) Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.

5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 82.156.

6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

C. If the Permittee manufactures, transforms, imports or exports a class I or class II substance, the Permittee is subject to all the requirements as specified in 40 CFR Part82, Subpart A, "Production and Consumption Controls".

D. If the Permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners". The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.

E. The Permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, "Significant New Alternatives Policy Program".

29. PREVENTION OF ACCIDENTAL RELEASES

This section contains air pollution control requirements that are applicable to this Facility and the United States Environmental Protection Agency enforces these requirements.

This Facility is subject to the requirements of the General Duty Clause, under 112(r)(1) of the CAA Amendments of 1990. This clause specifies that owners or operators of stationary sources producing, processing, handling or storing a chemical in any quantity listed in 40 CFR Part 68 or any other extremely hazardous substance have a general duty to identify hazards associated with these substances and to design, operate and maintain a safe facility, in order to prevent releases and to minimize the consequences of accidental releases which may occur.

APPEAL CONDITIONS FOR OPERATING PERMIT

This Permit is an action of the MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this Permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to the MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the Facility must continue to comply with all existing federal and state applicable requirements to which the Facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the Facility shall not be in violation of the Act for operating without a Permit.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the Permit is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to The Commonwealth of Massachusetts in the amount of one hundred dollars ($100.00) must be mailed to:

The Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The request will be dismissed if the filing fee is not paid unless the appellant is exempt or granted a waiver

as described below.

The filing fee is not required if the appellant is a city or town (or municipal agency) county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

The MassDEP may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.