



COMMONWEALTH OF MASSACHUSETTS
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FINAL AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("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"]:

Department of Correction
 Central Headquarters
 50 Maple Street
 Milford, Massachusetts 01757

INFORMATION RELIED UPON:

Renewal Application No. 4V07005
 Transmittal No. W121000 and
 Minor Modification Application No. 4M05049
 Transmittal No. W069644

FACILITY LOCATION:

Bridgewater Correctional Complex
 15 Administration Road
 Bridgewater, Massachusetts 02324

FACILITY IDENTIFYING NUMBERS:

AQ ID: 1192151
 FMF FAC NO. 53992
 FMF RO NO. 162928
 SIC Code: 9223 and 4911
 NAICS: 922140 and 221112

NATURE OF BUSINESS:

Correctional Institution,
 Steam Heating/Power Plant and Emergency Power
 and Electric Power Generation

FACILITY CONTACT PERSON:

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RESPONSIBLE OFFICIAL:

Name: Mr. Luis Spencer
 Title: Assistant Deputy Commissioner

This operating permit shall expire on 10/22/2015.

For the Department of Environmental Protection, Bureau of Waste Prevention

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

 Permit Chief, Bureau of Waste Prevention

 10/22/2010
 Date

This information is available in alternate format. Call Donald M. Gomes, ADA Coordinator at 617-556-1057. TDD# 866-539-7622 or 617-574-6868.

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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.

DESCRIPTION OF FACILITY AND OPERATIONS

Bridgewater Correctional Complex (BCC) is a state correctional institution located in Bridgewater, Massachusetts that produces its own power and steam. The facility consists of several buildings located within the institutional complex. The electrical Central Power Plant building contains the following emission units: (EU1, EU2, EU3, EU23 and EU24). The Old Colony Correctional Complex building contains one emission unit: (EU8). The facility is not a major source of Hazardous Air Pollutant Emissions (HAPs).

The electrical power plant building has 3 existing boiler units (EU1, EU2 and EU3), that burn natural gas and No. 4 fuel oil. These 3 EU's are capable of producing thermal energy (steam) for the facility heating. Two of the three units are identical Riley Stoker fire tube boilers with a maximum energy input rating of 92 MMBtu/hr. The third unit is a Cleaver-Brooks package boiler with a maximum energy input rating of 36 MMBtu/hr. The boilers are all ducted to a common steel stack, with a height of 95'.

A new 1.5 MW combustion turbine generator with an unfired heat recovery steam generator (HRSG) and an emergency diesel generator were installed in 2006. The 1.5 MW Kawasaki combustion turbine generator (EU23) has a maximum energy input rating of 30.192 MMBtu/hr and fires natural gas exclusively. Air Pollution control, which is part of the combustion turbine generator process, consists of XONON NO_x control technology at an emission rate of 2.5 ppmvd @15% O₂ for NO_x. Noise suppression from the combustion turbine exhaust, via the HRSG, is accomplished through the use of a Universal, Model No. GTE3X-40 silencer. Stack gases, via the HRSG, are vented through a new 50.0-foot steel stack. Compliance Assurance Monitoring (CAM) does not apply, since this emission unit does not have add-on controls and all pollutants, including NO_x, have a potential to emit of less than 5 tons per year.

The emergency diesel generator (EU24) has a maximum energy input rating of 18.7 MMBtu/hr and fires low sulfur distillate fuel oil exclusively. Noise suppression from the emergency diesel exhaust is accomplished through the use of an Industrial Acoustics Company, Model No. Type NL-36 silencer. Stack gases are vented through an additional new 50.0-foot steel stack.

EU8 is a Cummins emergency diesel generator, with a maximum energy input rating of 8.96 MMBtu/hr, that only burns ultra low sulfur distillate (ULSD) fuel oil exclusively and is located at the Old Colony Correctional Complex. Stack gases are vented through a 23.5 foot steel stack.

2. EMISSION UNIT IDENTIFICATION

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

TABLE 1			
EMISSION UNIT (EU#)	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
EU1	Riley Stoker Model No. MH Heating Boiler #1	92.0 MMBtu/hr (gas) 88.0 MMBtu/hr (oil)	Combustion Controls
EU2	Riley Stoker Model No. MH Heating Boiler #2	92.0 MMBtu/hr (gas) 88.0 MMBtu/hr (oil)	Combustion Controls
EU3	Cleaver Brooks Model No. D-52 Heating Boiler #3	41 MMBtu/hr (gas) 36.1 MMBtu/hr (oil)	Combustion Controls
EU8	Cummins Model No. KTA-2300-G2 Emergency Diesel (OCCC)	8.96 MMBtu/hr (oil)	None
EU23	Kawasaki Model No. GPB 15X Combustion Turbine	30.192 MMBtu/hr (gas) 1.434 MW	XONON NO _x Control Technology
	Energy Recovery Inc. Model No. S1-1414-ECON Unfired HRSG	11,200 lb/hr (steam)	None
EU24	Kohler Model No. 1600REOZM Emergency Diesel	18.7 MMBtu/hr (oil) 1750 kW	None

Table 1 Key:

EU# = Emission Unit Number
 MMBtu/hr = million British Thermal Units per hour
 Gas = Natural Gas
 No. = Number
 OCCC = Old Colony Correctional Complex
 HRSG = Heat Recovery Steam Generator

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered to be 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. EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the emission limits/restrictions as contained in Table 3 below:

TABLE 3					
EU #	FUEL	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION and/or APPROVAL NO.
EU1, EU2	Natural Gas and/or No. 4 Fuel Oil	NO _x	0.3 lbs/MMBtu ⁽¹⁾	N/A	310 CMR 7.19(5)(a)2.c.i. & Approval No. 4B99053
		CO	200 ppmvd @ 3% O ₂ ⁽¹⁾		310 CMR 7.19(5)(d) and Approval No. 4B99053
		PM	0.10 lbs/MMBtu ⁽²⁾		310 CMR 7.02(8)(h) Table 6
	No. 4 Fuel Oil	S in Fuel	0.55 lbs/MMBtu		310 CMR 7.05(1)(a)1.
EU3	Natural Gas and/or No. 4 Fuel Oil	NO _x	N/A	N/A	310 CMR 7.19(6)
		PM	0.10 lbs/MMBtu ⁽²⁾		310 CMR 7.02(8)(h) Table 6
	No. 4 Fuel Oil	S in Fuel	0.55 lbs/MMBtu		310 CMR 7.05(1)(a)1.
EU1, EU2, EU3	Natural Gas and/or No. 4 Fuel Oil	N/A	N/A	No more than two of the three existing boilers shall be operated at any one time.	Approval No. 4B89199
EU8	No. 2 Fuel Oil	N/A	N/A	300 hrs / 12 MRP (See "Special Terms and Conditions", Section 5.s.)	310 CMR 7.03(10)
		S in Fuel	≤ 0.0015% by weight		310 CMR 7.05(1)(a)3.
EU23	Natural Gas	NO _x	0.0083 lbs/MMBtu 0.25 lbs/hr 2.5 ppmvd @ 15% O ₂ 1.10 tons/12 MRP ⁽⁵⁾	(See "Special Terms and Conditions", Section 5.p.)	Approval No. 4B04034 and 40 CFR Part 60, Subpart GG ⁽⁶⁾
		CO	0.0202 lbs/MMBtu 0.61 lbs/hr 10.0 ppmvd @ 15% O ₂ 2.67 tons/12 MRP ⁽⁵⁾		
		PM	0.0066 lbs/MMBtu 0.20 lbs/hr 0.87 tons/12 MRP ⁽⁵⁾		
		VOC	0.0023 lbs/MMBtu 0.07 lbs/hr 2.0 ppmvd @ 15% O ₂ 0.30 tons/12 MRP ⁽⁵⁾		
EU23	Natural Gas	S in Fuel	0.8% by weight		

TABLE 3					
EU #	FUEL	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION and/or APPROVAL NO.
(cont.)	(cont.)	SO ₂	0.0034 lbs/MMBtu 0.10 lbs/hr 0.45 tons/12 MRP ⁽⁵⁾ ≤ 0.015% by volume @ 15% O ₂ , dry basis	(See "Special Terms and Conditions", Section 5.p.) (cont.)	Approval No. 4B04034 and 40 CFR Part 60, Subpart GG ⁽⁶⁾ (cont.)
EU24	Low Sulfur Distillate Fuel Oil	NO _x	1.4866 lbs/MMBtu 4.17 tpm ⁽⁷⁾ 4.17 tons/12 MRP ⁽⁸⁾	300 hrs / Month 44,000 gallons / Month	Approval No. 4B04034
		CO	0.1658 lbs/MMBtu 0.46 tpm ⁽⁷⁾ 0.46 tons/12 MRP ⁽⁸⁾	300 hrs / 12 MRP 44,000 gallons/12 MRP	
		PM	0.0535 lbs/MMBtu 0.16 tpm ⁽⁷⁾ 0.16 tons/12 MRP ⁽⁸⁾	(See "Special Terms and Conditions", Section 5.q. and 5.r.)	
		VOC	0.0819 lbs/MMBtu 0.23 tpm ⁽⁷⁾ 0.23 tons/12 MRP ⁽⁸⁾		
		SO ₂	0.00303 lbs/MMBtu 0.0085 tpm ⁽⁷⁾ 0.0085 tons/12 MRP ⁽⁸⁾		
		S in Fuel	0.00152 lbs/MMBtu		
Facility-wide	All Fuels	Opacity ⁽⁴⁾	≤ 20 percent, except >20 to ≤ 40 percent for ≤ 2 minutes during any one hour, at no time to exceed 40 percent.	N/A	310 CMR 7.06(1)(b)
		Smoke	< No. 1 of Chart ⁽³⁾ , except ≥ No.1 to < No. 2 of Chart for ≤ 6 minutes during any one hour, no time to equal or exceed No. 2 of the Chart.		310 CMR 7.06(1)(a)

NOTE 1: Compliance with the emission limit(s)/standard(s) shall be based on a one-hour averaging time.

NOTE 2: Particulate matter measured according to the applicable procedures specified in 40 CFR part 60 Appendix A, Method 5.

NOTE 3: Chart means the Ringelmann Scale for grading the density of smoke, as published by the United States Bureau of Mines and as referred to in the Bureau of Mines Information Circular No. 8333, or any smoke inspection guide approved by the Department.

NOTE 4: Opacity shall be determined in accordance with EPA Test Method 9, as specified in 40 CFR part 60, Appendix A. This method shall also apply to any detached plumes.

NOTE 5: In accordance with Plan Approval No. 4B04034, EU23 emissions based on 100% operation, 8,760 hours/consecutive 12-month period.

NOTE 6: By complying with Plan Approval No. 4B04034, Attachment No. 2, for EU23, BCC will be meeting lower NO_x and SO₂ limits than is required by 40 CFR 60 Subpart GG. Therefore, these requirements satisfy the conditions in 40 CFR 60 Subpart GG.

NOTE 7: In accordance with Plan Approval No. 4B04034, EU24 emissions based on 100% operation for 300 hours/month.

NOTE 8: In accordance with Plan Approval No. 4B04034, EU24 emissions based on 100% operation, 300 hours/consecutive 12-month period.

Table 3 Key:

EU = Emission Unit

lbs/MMBtu = pounds per million British Thermal Units

lbs/hr = pounds per hour

ppmvd @ 3% O₂ = parts per million per volume dry corrected to 3 percent Oxygen

ppmvd @ 15% O₂ = parts per million per volume dry corrected to 15 percent Oxygen

S in Fuel = Sulfur in Fuel

NO_x = Oxides of Nitrogen

CO = Carbon Monoxide

PM = Particulate Matter

O₂ = Oxygen

VOC - Volatile organic compounds

SO₂ - Sulfur dioxide

tpm = tons per month

hrs /12 MRP = hours per 12 Month Rolling Period

tons/12 MRP = tons per 12 Month Rolling Period

gallons/12 MRP = gallons per 12 Month Rolling Period

< = less than

≤ = less than or equal to

> = greater than

≥ = greater than or equal to

N/A = Not Applicable

B. COMPLIANCE DEMONSTRATION

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

TABLE 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU1, EU2	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)3., measure for each unit on a daily basis: type fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual emission rate (for emission units demonstrating compliance with CEMS) and the allowable emission rate.
	In accordance with Approval No. 4B99053, 310 CMR 7.19(13)(d)5. and 310 CMR 7.19(13)(d)6, monitor nitrogen content of each new shipment of No. 4 Fuel Oil received, by one of the following methods:
	(1) obtaining a certification from the fuel oil supplier that includes the following information: <ul style="list-style-type: none"> a. the name of the fuel supplier; b. the nitrogen content* of each oil shipment; and c. the location where the sample was drawn for analysis to determine the nitrogen content of the fuel oil, specifically including whether the fuel oil was sampled as delivered to the Permittee's facility or whether the sample was drawn from fuel oil in storage at the fuel oil supplier's or fuel oil refiner's facility or another location.
	(2) sample and analyze the fuel oil for nitrogen content * immediately after the fuel oil tank is filled and before any fuel oil is combusted.
	* The shipment certification or analysis of nitrogen content of the fuel oil shall be in accordance with the applicable American Society for Testing materials (ASTM) test methods or any other method approved by the Department and EPA.
EU3	In accordance with 310 CMR 7.00 Appendix C(9)(b)2., verify to the Department that the fuel utilization facility is able to maintain the emission rates identified in Table 3 when and if deemed necessary.
	In accordance with 310 CMR 7.04(2)(a), while firing fuel oil, operate continuously and maintain in an accurate operating condition smoke density indicators equipped with audible alarms and recorders that signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart.
	In accordance with 310 CMR 7.19(6)(a), tune the boilers annually following the procedure outlined at 310 CMR 7.19(6)(a)1. through 12., incorporated herein by reference.
EU1, EU2, EU3	In accordance with 310 CMR 7.19(6)(b)2.g., at least once per month verify that the settings determined during the tune-ups have not changed.
	In accordance with 310 CMR 7.04(2)(a), while firing fuel oil, operate continuously and maintain in an accurate operating condition smoke density indicators equipped with audible alarms and recorders that signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart.
	In accordance with Plan Approval No. 4B89199, monitor the operation of all three (3) emission units to verify that no more than two (2) emission units are operating at any one time.
	In accordance with 310 CMR 7.04(4)(a), inspect and maintain fuel utilization facility, in accordance with manufacturer's recommendations and test for efficient operation at least

TABLE 4

EU#	MONITORING/TESTING REQUIREMENTS
	annually.
EU8	In accordance with 310 CMR 7.03(10) and 310 CMR 7.02(8)(i)3., monitor ULSD fuel usage and the hours of operation.
EU1, EU2, EU3 and EU8	In accordance with 310 CMR 7.00: Appendix C(9)(b)2., demonstrate compliance with 310 CMR 7.05(1)(a) by obtaining and maintaining a shipping receipt from the fuel supplier for each shipment of fuel oil delivered. The shipping receipt must certify that the shipment complies with the American Society for Testing Materials (ASTM) specifications for distillate fuel oil. MassDEP may require testing of the distillate fuel oil if the shipping receipt does not clearly demonstrate compliance.
EU23	<p>In accordance with Approval No. 4B04034, BCC shall conduct emission compliance testing and emissions optimization on EU23 within 90 days of the commencement of continuous operation of the cogeneration facility and triennially thereafter (unless determined otherwise by this Department's Office in writing). The above testing shall demonstrate compliance with the NO_x and CO emissions limits (i.e. ppmvd@15%O₂, lb/MMBtu and lb/hr) contained in Table 3 of this Operating Permit. All compliance testing shall be conducted in accordance with appropriate EPA Reference Test Methods and procedures and Air Pollution Control Regulations, 310 CMR 7.13. The dates and times for conducting the emission compliance tests shall be mutually coordinated for an agreed-upon schedule with this Department's Office, BWP Regional Engineer: Christopher Tilden.</p> <p>In accordance with Operating Permit No. 4V07005, U.S. EPA approval letter dated April 25, 2006 and MassDEP's PEMS Test Report review letter dated March 20, 2007, parameter monitoring during the initial performance test and triennially testing should be done as follows:</p> <ol style="list-style-type: none"> 1. BCC will continuously monitor the fuel input rate, the electrical output (gross), and the combustor temperature (degrees Celsius or Fahrenheit); 2. The above data will be plotted versus the emission data recorded during the test, and linearly extrapolated to peak load and gross electrical output. A parallel line will be drawn at the allowable emission limits contained in the permit. Operation within the OEM's design range for combustor temperature, and recorded electrical output and load below the allowable emission rate line shall be considered evidence of proper XONON combustor performance as well as continuous demonstration of compliance with permitted emission limits; and 3. BCC will perform stack tests triennially to demonstrate compliance with 40 CFR §60.335. <p>In accordance with 40 CFR 60, Subpart GG, 60.334 and EPA letter dated April 25, 2006, monitor the natural gas fuel sulfur content.</p>
EU24	In accordance with 310 CMR 7.00: Appendix C(9)(b)2., demonstrate compliance with Approval No. 4B04034, by obtaining and maintaining a shipping receipt from the fuel supplier for each shipment of fuel oil delivered. The shipping receipt must certify that the shipment complies with the American Society for Testing Materials (ASTM) specifications for distillate fuel oil. MassDEP may require testing of the distillate fuel oil if the shipping receipt does not clearly demonstrate compliance.
EU23, EU24	<p>In accordance with Approval No. 4B04034, for the purpose of calculating emissions resulting from each fuel fired, the following heat content values shall be used:</p> <ul style="list-style-type: none"> • Natural Gas = 1,000 Btu per cubic foot • Distillate fuel oil (0.003% sulfur content by wt.) = 140,000 Btu per gallon

TABLE 4

EU#	MONITORING/TESTING REQUIREMENTS
Facility-Wide	<p>In accordance with 310 CMR 7.00 Appendix C(9)(b), when required, opacity shall be determined in accordance with 40 CFR part 60, Appendix A, Method 9. This method shall apply to any detached plumes.</p> <p>Monitor operations such that information may be compiled for the annual preparation of a Source Registration /Emission Statement Form as required by 310 CMR 7.12.</p> <p>In accordance with 310 CMR 7.13(1), any person owning, leasing, operating or controlling a facility for which the Department has determined that stack testing is necessary to ascertain compliance with the Department's regulations or design approval provisos shall cause such stack testing:</p> <ul style="list-style-type: none"> a) to be conducted by a person knowledgeable in stack testing, b) to be conducted in accordance with procedures contained in a test protocol which has been approved by the Department, and c) to be conducted in the presence of a representative of the Department when such is deemed necessary. <p>Conduct any other testing or testing methodology if and when requested by the Department or EPA.</p>

B. COMPLIANCE DEMONSTRATION (cont.)

TABLE 5	
EU#	RECORDKEEPING REQUIREMENTS
EU1, EU2	In accordance with 310 CMR 7.19(13)(c), maintain all records of any stack testing required to demonstrate compliance with the emission limits/standards contained in Table 3.
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)3., record for each unit on a daily basis: the type fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual emission rate (for emission units demonstrating compliance with CEMS), and the allowable emission rate for CO and NO _x .
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)5., obtain a certification from the fuel supplier for each shipment of residual oil that includes the information identified in Table 4.
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)6., as an alternative to the fuel supplier certification required by 310 CMR 7.19(13)(d)5., maintain records of sampling and analyzing the residual oil prior to combustion for each new shipment according to methods approved by the Department.
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)7., maintain copies of all fuel supplier certifications or fuel analyses on site for five (5) years.
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)8., maintain all records required by 310 CMR 7.19(13)(d) in a permanently bound log book or any other form acceptable to the Department including computer retained and generated data.
	In accordance with 310 CMR 7.00: Appendix C(9)(b)2., maintain records on site of the fuel purchase receipts in order to demonstrate compliance with the fuel sulfur content requirement as provided in 310 CMR 7.05(1)(a)1.
	In order to demonstrate compliance with the limits identified in Approval No. 4B99053, the automatic fuel/air ratio control system must be in service and properly maintained throughout the full operational range of the boilers whenever these units are in use.
	In accordance with 310 CMR 7.04(2)(a), maintain the smoke density monitor recording charts.
EU3	In accordance with 310 CMR 7.19(6)(b)2., records of monthly verification of tune-up settings, records of the tune-up, including: <ul style="list-style-type: none"> a. date of tune-up; b. person(s) conducting tune-up; c. O₂/smoke spot (for oil) correlations obtained during tune-up; d. boiler/burner manufacturer's recommended set-points; e. final boiler set points; and f. normal boiler/burner maintenance records.
	In accordance with 310 CMR 7.00: Appendix C(9)(b)2., maintain records on site of the fuel purchase receipts in order to demonstrate compliance with the fuel sulfur content requirement as provided in 310 CMR 7.05(1)(a)1.
	In accordance with 310 CMR 7.04(2)(a), maintain the smoke density monitor recording charts.
EU1, EU2, EU3	In accordance with Approval No. 4B89199, maintain operational records verifying that no more than two (2) of the three (3) emission units were operating at any one time.

TABLE 5

EU#	RECORDKEEPING REQUIREMENTS
EU8	<p>In accordance with 310 CMR 7.03(10) and 310 CMR 7.02(8)(i)3., maintain records, including but not limited to, ULSD fuel usage and monthly logs of hours of operation.</p> <p>In accordance with 310 CMR 7.00: Appendix C(9)(b)2., maintain records on site of the fuel purchase receipts in order to demonstrate compliance with the fuel sulfur content requirement as provided in 310 CMR 7.05(1)(a)2.</p>
EU23	<p>In accordance with 40 CFR 60, Subpart GG, 60.334 and EPA letter dated April 25, 2006, maintain records on the natural gas fuel sulfur content.</p> <p>In accordance with Operating Permit No. 4V07005 and U.S. EPA approval letter dated April 25, 2006, BCC shall maintain records of parameter monitoring, initial performance test and triennially testing as follows:</p> <ol style="list-style-type: none"> 1. BCC will continuously monitor and record the fuel input rate, the electrical output (gross), and the combustor temperature (degrees Celsius or Fahrenheit); 2. The above data will be plotted and records maintained versus the emission data recorded during the tests, and linearly extrapolated to peak load and gross electrical output. A parallel line will be drawn at the allowable emission limits contained in the permit. Operation within the OEM's design range for combustor temperature, and recorded electrical output and load below the allowable emission rate line shall be considered evidence of proper XONON combustor performance as well as continuous demonstration of compliance with permitted emission limits; and 3. BCC will perform and record stack tests triennially to demonstrate compliance with 40 CFR §60.335.
EU23, EU24	<p>In accordance with Approval No. 4B04034, the facility shall maintain records of any maintenance and/or repair work performed on any air pollution control equipment at the facility. These records shall include at a minimum:</p> <ul style="list-style-type: none"> • A record of all 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 and time the work was completed. • A record of all malfunctions on emission unit control and monitoring equipment shall include, at a minimum, the date and time the malfunctions occurred, a description of the malfunctions and the corrective actions taken, the date and time corrective actions were initiated, the date and time corrective actions were completed and the date and time the emission unit returned to compliance. <p>In accordance with Approval No. 4B04034, a copy of all records shall be kept readily available on-site for a period of five years and shall be made available to U.S. EPA and/or Department personnel upon request.</p> <p>In accordance with Approval No. 4B04034, BCC shall maintain detailed records on a monthly and consecutive twelve (12) month period basis for EU23 and EU24. As applicable, the records and supporting information shall include, but not necessarily be limited to: actual emissions from each EU, business sales/purchase orders and receipts, automated and non-automated tracking system(s) reports/logs for emission and operational criteria (e.g. amount and type of fuel burned, equipment hours of operation etc.) and related field data measurements (such as fuel tank soundings, fuel fired and total hours of equipment operation meter readings, etc.). The above records, in addition to any other credible evidence, shall clearly demonstrate compliance with the operational, production and emission limitations contained in this Operating Permit.</p>
Facility-Wide	<p>Opacity determined in accordance with EPA Test Method 9, as specified in 40 CFR part 60, Appendix A.</p>

TABLE 5

EU#	RECORDKEEPING REQUIREMENTS
	<p>In accordance with 310 CMR 7.04(4)(a), the results of the inspection, maintenance, testing, and the date upon which it was performed on the fuel utilization facility, as applicable, shall be recorded and posted conspicuously on or near the facility.</p> <p>In accordance with 310 CMR 7.12(3)b., copies of Source Registration and other information supplied to MassDEP to comply with 310 CMR 7.12, shall be retained by the facility owner or operator for five years from the date of submittal.</p> <p>In accordance with 310 CMR 7.00: Appendix C(10)(b)., maintain records of all monitoring data and supporting information on site for a period of at least five (5) years from the date of the monitoring sample, measurement, report or initial operating permit application. Supporting information includes at a minimum, all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the operating permit, and any other information required to interpret the monitoring data. Records required to be maintained shall include, where applicable:</p> <ol style="list-style-type: none"> 1. The date, place as defined in the permit, and the time of sampling or measurements; 2. The date(s) analyses were performed; 3. The company or entity that performed the analyses; 4. The analytical techniques or methods used; 5. The results of such analyses; and 6. The operating conditions as existing at the time of sampling or measurement. <p>These records shall be maintained for the test results required by 310 CMR 7.13(1).</p>

B. COMPLIANCE DEMONSTRATION (cont.)

TABLE 6	
EU#	REPORTING REQUIREMENTS
EU1, EU2	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(c)6., submit the emission test report for the review and written Department approval within 60 days of the completion of the compliance stack testing.
	In accordance with Approval No. 4B99053 and 310 CMR 7.19(13)(d)9., submit compliance records within ten (10) days of written request by the Department or EPA.
EU8	In accordance with 310 CMR 7.03(10) and 310 CMR 7.02(8)(i)3., records, including but not limited to, ULSD fuel usage and monthly logs of hours of operation shall be made available to MassDEP or its designee upon request.
EU23	In accordance with Approval No. 4B04034, a written pre-test protocol describing EU23 methods for NO _x and CO emissions compliance testing and optimization (including any parametric emission monitoring system (PEMS) strategy planned for future use), sampling point locations, sampling equipment, sampling and analytical procedures and the operating conditions for the required testing, must be submitted for review and MassDEP approval at least 30 days prior to the commencement of emission testing at the facility. The written pre-test protocol shall identify the independent third party testing company. The above pretest protocol shall be submitted at this Department's Office, BWP Regional Engineer: Christopher Tilden.
	In accordance with 40 CFR 60, Subpart GG, 60.334 and EPA letter dated April 25, 2006, provide reports of natural gas fuel sulfur content.
Facility-Wide	In accordance with 310 CMR 7.00: Appendix C, submit fuel sulfur content test results, obtained from the fuel supplier, to MassDEP upon request as provided in 310 CMR 7.05(1)(a).
	Submit a Source Registration/Emission Statement Form to the Department on an annual basis in accordance with 310 CMR 7.12.
	In accordance with 310 CMR 7.13(1) and 7.13(2), if determined by the Department that stack testing is necessary to ascertain compliance with the Department's regulations or design approval provisos shall cause such stack testing to be summarized and submitted to the Department as prescribed in the agreed to pretest protocol.
	Upon the Department's request, any records required by the applicable requirements identified in Section 4 of the Operating Permit or to the emissions of any air contaminant from the facility shall be submitted to the Department within 30 days of the request by the Department or within a longer time period if approved in writing by the Department, and shall be transmitted on paper on computer disk or electronically at the discretion of the Department, pursuant to 310 CMR 7.00 Appendix C(10)(a) incorporated herein by reference.
	In accordance with 310 CMR 7.00: Appendix C(10)(c). the permittee shall report a summary of all monitoring data and related supporting information to the Department at least every six months (January 30 and July 30 of each calendar year).
	In accordance with 310 CMR 7.00: Appendix C(10)(f), the permittee shall promptly report to MassDEP all instances of deviations from permit requirements. This report shall include the deviation itself, including those attributable to upset conditions as defined in the permit, the probable cause of the deviation, and any corrective actions or preventive measures taken. (See General Condition No. 25)
	All required reports must be certified by a responsible official as provided in 310 CMR 7.00: Appendix C(10)(h).

TABLE 6

EU#	REPORTING REQUIREMENTS
Facility Wide (cont.)	All BCC's notification and reporting requirements contained herein and in accordance with Section No. 25 of this Operating Permit, shall be sent directly to: Department of Environmental Protection Bureau of Waste Prevention Southeast Regional Office 20 Riverside Drive Lakeville, MA 02347 ATTN: Permit Section, Chief Telephone: (508) 946-2770 Fax: (508) 947-6557 (508) 946-2865

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	DESCRIPTION
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases
42 U.S.C. 7401, §601	Stratospheric Ozone
40 CFR Part 64	Compliance Assurance Monitoring

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:

Bridgewater Correctional Complex has indicated that it is subject to, and complying with, the requirements of 310 CMR 7.16, Reduction of Single Occupant Commuter Vehicle Use.

- a) In accordance with Approval No. 4B99053, the modified standard operating procedures will be implemented to achieve compliance with the applicable NO_x and CO limits identified in Table 3 for EU1 and EU2.
- b) In accordance with 310 CMR 7.04(6), no person shall cause, suffer, allow, or permit the installation or use of any material, article, machine, equipment, or contrivance which conceals an emission without reducing the total weight of emissions where such emission would constitute a violation of any applicable regulation.
- c) EU1, EU2 and EU3 shall continue to emit through a single stack having the following parameters:
 - Stack Height 95 feet
 - Stack Exit Diameter 74.44 inches
 - Stack Material Steel Stack/Gunite Lining
- d) In accordance with 310 CMR 7.03(10)(a)2., EU8 shall continue to be equipped and operated with an exhaust silencer so that sound emissions from the engine does not cause or contribute to a condition of air pollution.
- e) In accordance with 310 CMR 7.03(10)(a)3., EU8 shall utilize an exhaust stack that discharges so as to not cause or contribute to a condition of air pollution.

- f) EU8 shall continue to emit through a single stack having the following parameters:
- | | |
|---------------------|-----------|
| Stack Height | 23.5 feet |
| Stack Exit Diameter | 10 inches |
| Stack Material | Steel |
- g) In accordance with 310 CMR 7.01(1), should any nuisance condition(s) occur as a result of the operation of EU1, EU2, EU3, EU8, EU23 and/or EU24, then appropriate steps shall immediately be taken to abate said nuisance condition(s).
- h) EU23 shall continue to emit through a single stack having the following parameters:
- | | |
|---------------------|-------------|
| Stack Height | 50 feet |
| Stack Exit Diameter | 35.5 inches |
| Stack Material | Steel |
- i) EU24 shall continue to emit through a single stack having the following parameters:
- | | |
|---------------------|-------------|
| Stack Height | 50 feet |
| Stack Exit Diameter | 15.5 inches |
| Stack Material | Steel |
- j) In accordance with 310 CMR 7.03(10), 310 CMR 7.10 and Plan Approval No. 4B04034, EU23 and EU24 shall continue to be equipped and operated with an exhaust silencer so that sound emissions from the engine does not cause or contribute to a condition of air pollution.
- k) In accordance with Plan Approval No. 4B04034, which establishes authorization for BCC to install and operate EU23 and EU24. This equipment shall be constructed and operated in strict accordance with 40 CFR 60 Subpart GG and CPA No. 4B04034.
- l) A copy of Plan Approval No. 4B04034 shall be affixed at or adjacent to the subject equipment (EU23 and EU24), pursuant to Plan Approval No. 4B04034. The Standard Operating and Maintenance Procedures for the subject equipment shall be kept and maintained on-site.
- m) In accordance with Plan Approval No. 4B04034 and 310 CMR 7.02, BBC shall submit the following EU23 and EU24 information to MassDEP for review and written approval:
- Plans and Manufacturer Specifications for the XONON NO_x emission control system (applies to EU23 only)
 - Standard Operating and Maintenance Procedures (SOMP) and Manufacturer Specifications (MS)
 - PEMS to be utilized at the facility (if applicable)

The required SOMP and MS items shall be submitted in duplicate and shall bear the original seal and signature of a Massachusetts Registered Professional Engineer and must satisfy the minimum requirements of DEP Form BWP AQ CPA-1, Section B. Materials that Constitute a Comprehensive Plan Approval Application. The items shall be submitted in writing at this Regional Department's Office, BWP Permit Section Chief: John K. Winkler once the specific information has been determined.

- n) In accordance with Plan Approval No. 4B04034, EU23 is subject to 40 CFR 60 Subpart GG, Standards of Performance for Stationary Gas Turbines and all applicable requirements there under; including, but not necessarily limited to: performance and emissions criteria, monitoring, testing, notification, record keeping and reporting.
- o) According to EPA's letter dated April 25, 2006, addressed to BCC, the facility is granted a waiver from the nitrogen-monitoring requirement in 40 CFR 60.334(b) for pipeline quality natural gas.
- p) In accordance with Plan Approval No. 4B04034, EU23 shall burn only natural gas and shall be equipped with a natural gas fuel meter, which cannot be reset.
- q) In accordance with Plan Approval No. 4B04034, EU24 shall burn only low sulfur distillate fuel oil (approx. sulfur content of 0.003% by weight) and shall be equipped with an hours of operation totalizing meter, which cannot be reset.
- r) In accordance with Plan Approval No. 4B04034, EU24 shall be operated for emergency purposes only consistent with 310 CMR 7.00 Emergency or Standby Engine. The engine generator shall NOT be used as a load shaving unit, peaking power production unit or as a stand-by engine in an energy assistance program.
- s) In accordance with 310 CMR 7.03(10)(a)4., EU8 shall be operated for emergency purposes only. The engine generator shall NOT be used as a load shaving unit, peaking power production unit or as a standby engine in an energy assistance program.

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 facility 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 the 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 permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Regional Administrator, 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:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status and whether compliance was continuous or intermittent during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- iv. 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 the MassDEP. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status during the reporting period;

- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- iv. whether there were any deviations during the reporting period;
- v. if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
- vi. whether deviations in the reporting period were previously reported;
- vii. if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
- viii. if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
- ix. 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:
 - i. the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - ii. the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
 - iii. 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), 7.21, 7.22, 7.70 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 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 based¹ emission limitations specified in this permit as a result of an emergency². In order to use emergency 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.

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 facility, 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.

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 supercede the following deviation reporting requirements, if applicable.

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

- 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.
- Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the permit or approval as surrogate for an emission limit.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- Failure to perform QA/QC measures as required by your 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 Waste Prevention Air Operating Permit Reporting Kit, which is available to the permittee via 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 or fax within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention 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 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. LEGEND OF ABBREVIATED TERMS IN OPERATING PERMIT

*Not all abbreviations are present in every Operating Permit

< - Less Than

≤ - Less Than or Equal To

> - Greater Than

≥ - Greater Than or Equal To

#/hr - Pounds Per Hour

10⁶ BTU/hr - 1,000,000 BTU Per Hour

AOS – Alternative Operating Scenario

AQCR - Air Quality Control Region

CEM - Continuous Emission Monitor

CO - Carbon Monoxide

EPA - Environmental Protection Agency

FMF FAC. NO. - Facility Master File Number

FMF RO NO. - Facility Master File Regulated Object Number

FT³/day - Cubic Feet Per Day

HHV - Higher Heating Value

ISO - Represent 59°F, 60% Relative Humidity, 29.92 Inches Mercury At Sea Level

MassDEP - Massachusetts Department of Environmental Protection

Department - Massachusetts Department of Environmental Protection

MMBTU/hr - Million British Thermal Units Per Hour

NH₃ - Ammonia

NO_x - Nitrogen Oxides

PB - Lead

PLT ID - Plant Identification

PM - Particulate Matter

PPM - Parts Per Million

PTE - Potential To Emit

SO₂ - Sulfur Dioxide

TPY - Tons Per Year

VOC - Volatile Organic Compound

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.