Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

AMENDED 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"]:

The Gillette Company
A Subsidiary of P&G Corporation

One Gillette Park
Boston, Massachusetts 02127

INFORMATION RELIED UPON:

Application No. MBR-95-OPP-076RS
Transmittal No. X225475 and X251924

FACILITY LOCATION:
Same

FACILITY IDENTIFYING NUMBERS:
SSEIS ID: 1190033
FMF FAC NO.: 368316
FMF RO NO.:368318

NATURE OF BUSINESS:

Manufacture of razors and blades.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS):

332211

RESPONSIBLE OFFICIAL:
Name: AliRiza Ganioglu
Title: Plant Leader

STANDARD INDUSTRIAL CODE (SIC):

3421

FACILITY CONTACT PERSON:

Name: Richard Gauthier
Title: Site Environmental Leader
Phone: (617) 463-3386

This Operating Permit shall expire on: 04/11/2016

For the MassDEP, Bureau of Air and Waste Prevention

_____
Susan Ruch
Acting Permit Chief and
Deputy Regional Director

Date: 06/10/2015

TABLE OF CONTENTS

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

The Gillette Company's Boston Plant ("the facility") is the World Shaving Headquarters for the Gillette Company. The facility is a major potential source of Sulfur Dioxide (SO_2), Oxides of Nitrogen (NO_x), and Carbon Monoxide (CO) emissions and an area source for Hazardous Air Pollutants (HAPs). The facility manufactures personal care products. Metal processing and plastic molding are its key manufacturing operations. The facility operates a powerhouse with two water-tube boilers (EU2, EU3).

EU2 is subject to the requirements of 310 CMR 7.19 Reasonable Available Control Technology (RACT) for Sources of NO_x for large boilers (310 CMR 7.19(4)), since Massachusetts is designated as nonattainment for ozone.

EU3 was installed in 2003 and is subject to 40 CFR Part 60, Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units for boilers having a heat input greater than 100 million Btu/hr.

There are three emergency diesel engine generators (EUEG1, EU6 and EU7), and one emergency diesel engine fire pump (EUFP1) at the facility. The engines are subject to 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. EU6, EU7, EUEG1, EUFP1 need to comply with 40 CFR Part 63, Subpart ZZZZ no later than May 3, 2013. Due to their installation dates, however, the engines are not subject to the requirements of 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

On February 2, 2010, MassDEP approved installation of a dual fuel Solar Taurus Model 70 combustion turbine (EU1) equipped with a natural gas-fired heat recovery steam generator (HRSG) (EU9). The conditions of approval, now incorporated into this Operating Permit, include enforceable restrictions on emissions from existing operations to allow the project to avoid causing a significant net increase of PM2.5 emissions and thereby triggering Prevention of Significant Deterioration (PSD) review. EU1 and EU9 are subject to New Source Performance Standard (NSPS) 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines.

EU1, EU3 and EU9 feature pre-control NO_x emissions greater than the major source threshold but have emission controls needed to meet applicable requirements. Compliance Assurance Monitoring (CAM) does not apply to all three EUs since the monitoring systems meet the continuous compliance determination under 40 CFR 64.2(b)(1)(vi). EU1 and EU9 are exempt from CAM since they are subject to a post-1990 NSPS, Subpart KKKK.

The Permittee submitted the changes described below in the Significant Modification Application (MBR-95-OPP-076SM, Transmittal No. X251924).

1) The Permittee installed and certified an O2/NOx/CO Continuous Emission System (CEMS) for EU 3. This CEMS replaces EU3's O2/NOx/CO Parametric Emission System (PEMS) which still remains in service.
2) The Permittee installed and certified a new opacity monitor for EU2 which replaced EU 2's existing smoke density meter.
3) The Permittee proposes to modify EU 2's current operating practices by eliminating the MasDEP approved Plan of Good Operating Practices (POGOP).
4) The Permittee installed and certified a new opacity monitor for EU 3 which replaced EU 3's existing smoke density meter.
5) The Permittee corrected an administrative error related to the parts cleaner, EU8, design capacity.
6) The Permittee installed a portable emergency flood pump, EU10.
7) The Permittee corrected an administrative error related to the fire pump emergency engine, EUFP1, model number.
8) The Permittee proposes to clarify that the on-line transportation related services postings are acceptable for the Rideshare Program.
9) The Permittee changed the facility's Responsible Official.
10) The Permittee proposes to update its Operating Permit to reflect installation and operation of a portable emergency flood pump (EU10).
11) The Permittee increased the stack height on the life safety emergency generator (EUEG1) by 10 feet.
12) The Permittee proposes to clarify the semi-annual reporting requirements.
13) The Permittee proposes to update its Operating Permit to reflect completion of the compliance activities identified in Section 8.0, "Compliance Schedule" of its Final Operating Permit dated April 11, 2011.

EU10 is subject to 40 CFR Part 63, Subpart ZZZZ, "National Emissions Standards for Hazardous Air pollutants for Stationary Reciprocating Internal Combustion Engines." This emission unit must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines."

2. EMISSION UNIT IDENTIFICATION

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

Table 1

EU#	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
EU1	Solar Taurus Model No. 70 Combustion Turbine	76.2 MMBtu per hour	SCR for NOx (PCD-1) Catalytic Oxidation for CO (PCD-2)
EU2	Combustion Engineering Boiler Model No. 21VP-14WT	142 MMBtu per hour	Low NOx burner (PCD-3)
EU3	Alstom Power Energy Boiler Model No. 31VP2180	196 MMBtu per hour	SCR for NOx (PCD-4) Catalytic Oxidation for CO (PCD-5)
EU4	Plastic Molding Machines: 112 injection machines and 12 extrusion machines	200 lb per hour per press and 220 lb per hour per extruder	None
EU5	Low Energy Sintering Lines:	200 lb per hour	None

Table 1			
EU#	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
	2 production machines		
EU6	Caterpillar emergency generator	4.6 MMBtu per hour	None
EU7	Caterpillar 3508B emergency generator	8.9 MMBtu per hour	None
EU8	Parts cleaner/cold degreaser utilizing VOC based solvent (up to 5 units)	80 gallons	Work practices
EU9	Renetech Custom Made Heat Recovery Steam Generating Unit	106.8 MMBtu per hour	SCR for NOx (PCD-1) Catalytic Oxidation for CO (PCD-2)
EU10	Portable Emergency Flood Pump	0.165 MMBtu per hour	None
EUEG1	Caterpillar CD125	1.37 MMBtu per hour	None
EUFP1	Detroit Diesel DDFP-04AT_7088	1.53 MMBtu per hour	None

Table 1 Key:

EU# = Emission Unit Number
MMBtu = 1,000,000 British thermal units
lb = Pounds
NA = Not Applicable
SCR = Selective Catalytic Reduction
NO_x = Nitrogen Oxides
CO = Carbon Monoxide

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 Exempt Activities
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 this list shall be kept 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.

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/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU1/EU9,[1,9,10] (combined emissions)	EU1: Natural Gas and ULSD ≤ 0.0015% S by weight EU9: Natural Gas Only	NO_x	1.50 lbs/hr (EU1 firing gas) 4.40 lbs/hr (EU1 firing ULSD) 7.90 t/12mrp	EU1 firing no more than 1440 hours per year of ULSD fuel oil; EU9 firing natural gas for 8760 hours per year (See Table 3 Notes, Nos. 9 and 10)	MBR-09-COM-005
		CO	0.90 lbs/hr (EU1 firing gas) 2.20 lbs/hr (EU1 firing ULSD) 4.50 t/12mrp		
		VOC	0.50 (gas or ULSD)lbs/hr 2.10 t/12mrp		
		SO_2	0.440 lbs/hr (EU1 firing gas) 0.370 lbs/hr (EU1 firing ULSD) 1.80 t/12mrp		
		$PM/PM_{10}/PM_{2.5}$ (total, including condensable)	3.40 lbs/hr (EU1 firing gas) 4.50 lbs/hr (EU1 firing ULSD) 14.30[4] t/12mrp		
		H_2SO_4	0.20 lbs/hr (EU1 firing gas) 0.160 lbs/hr (EU1 firing ULSD) 0.90 t/12mrp		
		NH_3	0.60 lbs/hr 2.20 t/12mrp		
	EU1: Natural Gas and ULSD ≤ 0.0015% S by weight EU9: Natural Gas Only	Opacity	<5%, except 5 to < 10% for ≤ 2 minutes during any one hour during natural gas operation <10%, except 10 to < 15% for ≤ 2 minutes during any one hour during fuel oil operation		MBR-09-COM-005
		Smoke	< No. 1 of Chart, except No.1 to < No. 2 of Chart for ≤ 6 minutes during any one hour		310 CMR 7.06(1)(a)

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU1/EU9,[1,9,10] (combined emissions)	Natural Gas	NO_x	25 ppm @ 15% O_2 or 150 ng/J of useful output (1.2 lb/MWh), assessed on a 30 unit operating day rolling average basis	N/A	40 CFR 60.4530(h) (Subpart KKKK)
	ULSD $\leq$ 0.0015% S by weight		74 ppm @ 15% O_2 or 460 ng/J of useful output (3.6 lb/MWh), assessed on a 30 unit operating day rolling average basis		
	All Fuels	SO_2	26 ng/J (0.060 lb SO_2/MMBtu)heat input		40 CFR 60.4330(a)(2) (Subpart KKKK)
EU1	Natural Gas	NO_x	0.14 lb/MW-hr	N/A	310 CMR 7.26(43)
		CO	0.09 lb/MW-hr		
	ULSD $\leq$ 0.0015% S by weight	NO_x	0.34 lb/MW-hr		
		CO	0.18 lb/MW-hr		
	All Fuels	NH_3	2.0 ppm @ 15% O_2		
		CO_2	1900 lb/MW-hr		
EU2	Primary: Natural Gas Secondary: ULSD $\leq$ 0.0015% S by weight	NO_x	$\leq$ 0.40 lb/MMBtu[1,2]	N/A	310 CMR 7.19(4)(a)4.b. MBR-94-COM-024 MBR-95-OPP-067R (Transmittal No. X225475)
		CO	$\leq$ 200 ppm by volume, dry basis at 3% O_2 [1]		310 CMR 7.19(4)(f)
		PM	$\leq$ 0.12 lb/MMBtu		310 CMR 7.02(8)(d) Tables 3,4
	Primary: Natural Gas Secondary: ULSD $\leq$ 0.0015% S by weight	Opacity	$\leq$ 20 percent, except 20 percent to $\leq$ 40 percent for $\leq$ 2 minutes during any one hour	N/A	310 CMR 7.06(1)(b)

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU3	Primary: Natural Gas	NOx	≤ 0.0061 lb/MMBtu	N/A	MBR-00-COM-047, MBR-95-OPP-067R
		PM[13]	≤ 0.011 lb/MMBtu		
		CO	≤ 0.015 lb/MMBtu		
		VOC	≤ 0.010 lb/MMBtu		
		SO_2	≤ 0.0006 lb/MMBtu		
	Secondary: ULSD ≤ 0.0015% S by weight	NOx	≤ 0.10 lb/MMBtu	< 1,041,600 gallons per rolling 12 month-period	
		PM[13]	≤ 0.011 lb/MMBtu		
		CO	≤ 0.016 lb/MMBtu		
		VOC	≤ 0.010 lb/MMBtu		
		SO_2	≤ 0.0015 lb/MMBtu		
	All Fuels	NH_3 Slip	≤ 2.0 ppmvd		
	All Fuels	NOx	≤ 0.10 lb/MMBtu	N/A	40 CFR 60.44b
		Smoke	< No. 1 of Chart[8], except No. 1 to < No. 2 of Chart for ≤ 6 minutes during any one hour		310 CMR 7.06(1)(a)
		Opacity	≤ 20 percent, except 20 percent to ≤ 40 percent for ≤ 2 minutes during any one hour		310 CMR 7.06(1)(b)
EU2, EU3	See above	NOx[3]	Combined: 70 tons per month and 211.5 tons per rolling 12-month period[3]	N/A	MBR-00-COM-047
		SO_2	1.2 lbs/MMBtu[5,6]	N/A	310 CMR 7.22(1)
EU4	Plastic Resin Materials[7]	VOC	1.5 tons per month	N/A	MBR-95-OPP-076
			4.9 tons per rolling 12 month period	N/A	310 CMR 7.02(4)(a)1. MBR-95-IND-020
		Opacity	Not to exceed 10%	N/A	MBR-95-IND-020
EU5	Telomer Coating	VOC	3 tons per month	N/A	310 CMR 7.02(5)(a)1. MBR-99-IND-026
			9.9 tons per rolling 12 month period		
EU6, EU7	ULSD ≤ 0.0015% S by weight	N/A	N/A	≤ 300 hours of operation per twelve month rolling period, during described emergencies, maintenance and allowable testing periods each unit	310 CMR 7.03(10) MBR-95-OPP-067R (Transmittal No. X225475)
		Smoke	< No. 1 of Chart[8], except No. 1 to < No. 2 of Chart for ≤ 6 minutes during any one hour	N/A	310 CMR 7.06(1)(a)

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU6, EU7		Opacity	≤ 20 percent, except 20 percent to ≤ 40 percent for ≤ 2 minutes during any one hour	N/A	310 CMR 7.06(1)(b)
EU6, EU7, EUEG1, EUFP1		N/A	See Special Conditions	See Special Conditions	40 CFR 63, Subpart ZZZZ
EU8	Non-halogenated Solvent	VOC	Solvent vapor pressure does not exceed 1.0 mm Hg measured at 20 degrees C	< 100 gallons of solvent per month per unit	310 CMR 7.03(8), 310 CMR 7.18(a)
EU10	ULSD ≤ 0.0015% S by weight	NOx CO PM NMHC	As contained in 40 CFR, Part 89 and 40 CFR, Part 60, Subpart IIII	≤ 300 hours of operation per twelve month rolling period, during described emergencies, maintenance and allowable testing periods	310 CMR 7.26(42) 40 CFR Part 60, Subpart IIII
Facility wide	N/A	Greenhouse Gas[12]	N/A	N/A	310 CMR 7.71 (state only)
		$PM_{2.5}$	6.0[4] tons per month		MBR-09-COM-005
			15.31[4] tons per rolling 12 month period		
		VOC	15 tons per month		Consent Order, AP-NE-95-7003
		VOC	45 tons per rolling 12 month period		Consent Order, AP-NE-95-7003
		Any single HAP	< 1 ton per month		MBR-95-OPP-076
			< 9 tons per 12 month rolling calendar period		
		Total HAPs	< 2 tons per month		
			< 20 tons per 12 month rolling calendar period		

Table 3 Notes:

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

2. NO_x emission limit is for boilers having a heat release rate of greater than 70,000 BTU/hour-ft^3.

3. Following formulae shall be used to calculate powerhouse (Boilers EU2-EU3) NOx emissions:

$$\frac{(A^1)(6.1\times10^{-6})}{2000} + \frac{(B^1)(0.0154)}{2000} + \frac{(C^1)(4.0\times10^{-4})}{2000} + \frac{(D^1)(0.056)}{2000} \leq E^1$$

A^1 = cubic feet of natural gas combusted in EU No. 3 per month;
B^1 = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight combusted in EU No. 3 per month;
C^1 = cubic feet of natural gas combusted in EU No. 2, combined per month;
D^1 = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight combusted in EU No. 2, combined per month;

E^1 = 70 tons per month.

$$\frac{(A)(6.1\times10^{-6})}{2000} + \frac{(B)(0.0154)}{2000} + \frac{(C)(4.0\times10^{-4})}{2000} + \frac{(D)(0.056)}{2000} \leq F$$

A = cubic feet of natural gas combusted in Boiler No. 3 per 12-month rolling period;
B = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight combusted in EU No. 3 per 12-month rolling period;
C = cubic feet of natural gas combusted in EU No. 2, combined per 12-month rolling period;
D = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight combusted in EU No. 2, combined per 12-month rolling period;
F = 211.5 tons per 12-month rolling period.

4. The following formulae shall be used to calculate combustion source (combined EU1, EU2, EU3, EU6, EU7, EU9, EG1, and FP1) $PM_{2.5}$ emissions or MADEP acceptable alternative (see Note 11 below) emissions:

$$\frac{(A^1)(R)}{2000} + \frac{(B^1)(S)}{2000} + \frac{(C^1)(T)}{2000} + \frac{(D^1)(U)}{2000} + \frac{(E^1)(V)}{2000} + \frac{(F^1)(X)}{2000} + \frac{(G^1)(Y)}{2000} + \frac{(H^1)(Q)}{2000} \leq Z^1$$

A^1 = million cubic feet of natural gas combusted in EU1 per month;
B^1 = million cubic feet of natural gas combusted in EU2 per month;
C^1 = million cubic feet of natural gas combusted in EU3 per month;
D^1 = million cubic feet of natural gas combusted in EU9 per month;
E^1 = gallons of ultra low sulfur distillate (ULSD) fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU1 per month;
F^1 = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU2 per month;
G^1 = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU3 per month;
H^1 = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU6, EU7, EG1, and FP1 combined per month;
Q = AP-42 emission factor when combusting ULSD fuel oil (0.0015% S) as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per gallon of ULSD fuel oil combusted;
R = Compliance stack test number for EU1 (See Section 8, A., 1) when combusting natural gas as total $PM_{2.5}$ including condensable in pounds per million cubic feet of natural gas combusted;
S = Compliance stack test number for EU2 (See Section 8, C., 1) when combusting natural gas as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per million cubic feet of natural gas combusted;
T = Compliance stack test number for EU3 (See Section 8, C., 1) when combusting natural gas as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per million cubic feet of natural gas combusted;
U = Compliance stack test number for EU9 (See Section 8, A., 1) when combusting natural gas as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per million cubic feet of natural gas combusted;
V = Compliance stack test number for EU1 (See Section 8, A., 1) when combusting ULSD fuel oil (0.0015% S) as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per gallon of ultra low sulfur distillate (ULSD) fuel oil combusted;
X = Compliance stack test number for EU2 (See Section 8, A., 1) when combusting ULSD fuel oil (0.0015% S) as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per gallon of ULSD fuel oil fuel oil combusted;
Y = Compliance stack test number for EU3 (See Section 8, A., 1) when combusting ULSD fuel oil (0.0015% S) as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per gallon of ULSD fuel oil combusted;
Z^1 = 6.0 tons per month.

$$\frac{(A)(R)}{2000} + \frac{(B)(S)}{2000} + \frac{(C)(T)}{2000} + \frac{(D)(U)}{2000} + \frac{(E)(V)}{2000} + \frac{(F)(X)}{2000} + \frac{(G)(Y)}{2000} + \frac{(H)(Q)}{2000} \leq Z$$

A = million cubic feet of natural gas combusted in EU1 per 12-month rolling period;
B = million cubic feet of natural gas combusted in EU2 per 12-month rolling period;
C = million cubic feet of natural gas combusted in EU3 per 12-month rolling period;
D = million cubic feet of natural gas combusted in EU9 per 12-month rolling period;
E = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU1 per 12-month rolling period;
F = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU2 per 12-month rolling period;
G = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU3 per 12-month rolling period;
H = gallons of ULSD fuel oil having a maximum sulfur content of less than or equal to 0.0015 percent by weight (0.0015% S) combusted in EU6, EU7, EG1, and FP1 per 12-month rolling period;
Q = AP-42 emission factor when combusting ULSD fuel oil (0.0015% S) as total $PM_{2.5}$ including condensable in pounds $PM_{2.5}$ per gallon of ULSD fuel oil combusted;
Z = 15.31 tons per 12-month rolling period (which shall be adjusted based on stack test numbers). This was calculated using an allowable 9.8 tons per 12-month rolling period for

EU1 and EU9 combined and a calculated 5.51 tons per year from EU2, EU3, EU6, EU7, EG1, and FP1 using actual fuel usage combined for the years of 2007 And 2008).

5. For the purposes of calculating emissions from each fuel burned, the following heat content values shall be used:
Natural gas: 1,000 Btu per cubic foot; ULSD: 140,000 Btu per gallon.

In accordance with Approval MBR-00-COM-047, Condition No. E.(18), all periods of excess emissions* from EU 3, even if attributable to an emergency/malfunction or start up/shutdown shall be quantified and included in the determination of annual emissions and compliance with the annual emission limits stated herein.

*("Excess Emissions" are defined as emissions, which are in excess of the Short-term emissions from EU3 as stipulated in Table 3). An exceedance of emission limits from EU 3 in Table 3 due to an emergency or malfunction shall not be deemed a federally permitted release as that term is used in 42 U.S.C. Section 9601(10).

6. **C**ompliance with SO_2 limit under the Massachusetts Acid Rain Law 310 CMR 7.22 shall be demonstrated combusting natural gas or ULSD (0.0015%S) fuels. The provisions of 310 CMR 7.22 are State-Only Requirements. Compliance with the emission limits(s)/standard(s) shall be based on an annual calendar averaging time.

7. The primary raw materials currently used by EU4 are Polystyrene, Polyphenylene oxide/High Impact Polystyrene resin, acrylonitrile-butadiene-styrene terpolymer, and filler materials.

8. 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 MassDEP.

9. The emission limitations established in Table 3 shall apply only when EU1 is operated within the 50 percent to 100 percent load range excluding start-up or shut down periods. The emission limitations established in Table 3 shall also apply when EU1 is not operating and EU9 is operating at any load.

10. The Permittee shall not operate EU1 at power generating loads below 50 percent of combustion turbine rated capacity or power generating loads exceeding 100 percent of combustion turbine rated capacity, excluding start-up or shutdown periods. EU1 start-ups and shutdowns shall be per turbine manufacturer's specifications, but shall not exceed two hours in duration for each episode.

11. An alternative method for calculating $PM_{2.5}$ is to assume that all particulate matter is $PM_{2.5}$. The Permittee may propose an additional alternative method which must be approved in writing by MassDEP prior to its use.

12. 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)

13. Includes condensable particulate matter

Table 3 Key:

EU# = Emission Unit Number
ULSD = ultra low sulfur distillate fuel oil containing 0.0015% sulfur maximum by weight
ppm = parts per million
ppmvd = parts per million by volume dry
lbs/hr = pounds per hour
t/12mrp = tons per 12-month rolling period
lb/MMBtu = pounds per million British thermal units
BTU/hour-ft^3 = British thermal units per hour per cubic foot
NO_x = Nitrogen Oxides
VOC = Volatile Organic Compounds
HAP = Hazardous Air Pollutant
CO = Carbon Monoxide
PM = Particulate Matter
PM_{10} = particulate matter 10 microns or less
$PM_{2.5}$ = particulate matter 2.5 microns or less
SO_2 = Sulfur Dioxide
H_2SO_4 = sulfuric acid mist
S = Sulfur
O_2 = Oxygen
% = percent
< = less than
≤ = less than or equal to
N/A = Not Applicable
NH_3 = Ammonia
No. = Number
Mm Hg = millimeters of mercury

C = Celsius
NMHC = non-methane hydrocarbons

B. COMPLIANCE DEMONSTRATION

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

Table 4

EU#	MONITORING/TESTING REQUIREMENTS
EU1	1) In accordance with Approval MBR-09-COM-005, Table 3, No. 1, install, calibrate and maintain the continuous emissions monitoring system (CEMS) equipment required pursuant to 40 CFR 60, New Source Performance Standards (NSPS), Subpart KKKK, Monitoring of Operations for Stationary Gas Turbines, as applicable.
EU1,EU9	2) In accordance with Approval MBR-09-COM-005, Table 3, No. 5, that for compliance testing purposes, EU1 and EU9 shall be constructed so as to accommodate the emissions testing requirements as stipulated in 40 CFR Part 60, Appendix A or the latest test methods recommended by USEPA. The two outlet sampling ports (90 degrees apart from each other) for EU1 and EU9 must be located at a minimum of one duct diameter upstream and two duct diameters downstream of any flow disturbance.
	3) In accordance with Approval MBR-09-COM-005, Table 3, No. 7, use and maintain its CEMS as "direct-compliance" monitors to measure Oxides of Nitrogen (NO_x), Carbon Monoxide (CO), Ammonia (NH_3), oxygen (O_2) and a continuous opacity monitoring system (COMS) for opacity. The stack opacity monitor shall monitor opacity. "Direct-compliance" monitors generate data that legally documents the compliance status of a source. MassDEP will utilize the data generated by the "direct-compliance" monitors for compliance and enforcement purposes.
	4) In accordance with Approval MBR-09-COM-005, Table 3, No. 8, a quality assurance/quality control (QA/QC) program must be developed for the long-term operation of the CEMS serving the project.
	5) In accordance with Approval MBR-09-COM-005, Table 3, No. 9, each unit shall be equipped with a fuel meter, for each fuel of use, and recorder.
PCD-1,PCD-2	6) In accordance with Approval MBR-09-COM-005, Table 3, No. 10, install and operate continuous sensors and alarm systems to monitor temperatures at the inlet to the Selective Catalytic Reduction (SCR)/CO oxidation catalyst air pollution control system.
EU1,EU9,PCD-1,PCD-2	7) In accordance with Approval MBR-09-COM-005, Table 3, No. 11, install, calibrate, test and operate a Data Acquisition and Handling System(s) (DAHS) for the CEMS to measure EU1 and EU9 and associated air pollution control system operating parameters and the following emissions from the subject project and COMS for opacity: a) O_2 b) NO_x c) CO d) NH_3
EU2	8) In accordance with Significant Modification, Transmittal No. X251924, install, certify and operate a new COMS in accordance with 40 CFR 60, Appendix B Performance Specification 1.
	9) Conduct Emissions Compliance Testing (Stack Testing) annually prior to October 1, in accordance with Approval MBR-94-COM-024, 310 CMR 7.13, 310 CMR 7.19(13)(c), and 40 CFR Part 60, Appendix A for NO_x, CO and NO_x/CO minimization program.
	10) In accordance with 310 CMR 7.19(13)(d)3., and Approval MBR-94-COM-024, Proviso No. III.a., monitor, when in operation, on a daily basis: type of fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual percent oxygen in the flue gases, and the allowable NOx emission rate.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU2	11) Pursuant to the Department's authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor sulfur content of each new shipment of fuel(s) received. Compliance with for sulfur content of the ULSD fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by MassDEP and the United States Environmental Protection Agency (EPA). Fuel sulfur information may be provided by fuel suppliers.
	12) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., opacity shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.
	13) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor unit operations to ensure continuous compliance with PM emission limits.
EU3	14) In accordance with Approval MBR-00-COM-047, Proviso No. 7., conduct emissions compliance testing for NOx, CO, particulate matter and NH3 to demonstrate compliance with the emission limitations as specified in Table 3 above, if and when Gillette decides to utilize ULSD fuel oil in EU3. All emission testing shall be completed within 90 days of the utilizing ULSD fuel oil in EU3 and shall be conducted in accordance with the appropriate test methods and procedures as contained in 40 CFR 60 Appendix A or in accordance with a test protocol approved by MassDEP. This compliance testing shall be witnessed by MassDEP personnel at a mutually agreeable time and date.
	15) In accordance with Approval MBR-00-COM-047, Proviso No. 8., conduct NH3 slip optimization/minimization compliance stack testing on an annual basis by October 1st of each year.
	16) In accordance with Approval MBR-00-COM-047, Proviso No. (9), ensure that the SCR control equipment is operational whenever the exhaust temperature attains 550° Fahrenheit at the SCR unit.
	17) In accordance with Approval MBR-00-COM-047, Proviso No. (13), install, calibrate, test and operate a Data Acquisition and Handling System(s)(DAHS) and Continuous Emission Monitor System (CEMS) and Continuous Opacity Monitoring System (COMS)in accordance with the Federal Regulations under 40 CFR Part 60, Appendices B and F. These Systems shall be used to measure and record emissions of NOx, CO, O2 and opacity.
	18) In accordance with Approval MBR-00-COM-047, Proviso No. (14), ensure that all emission monitors and recording equipment complies with MassDEP approved performance and location specifications, and conform with the EPA monitoring specifications at 40 CFR Part 60.13 and 40 CFR Part 60 Appendices B and F, and all applicable portions of 40 CFR Parts 72 and 75.
	19) In accordance with Approval MBR-00-COM-047, Proviso No. (15), equip the CEMS and COMS with audible and visible alarms to activate whenever emissions exceed the limits established herein.
	20) In accordance with Approval MBR-00-COM-047, Proviso No. (16), operate the CEMS and COMS at all times, except for periods of CEMS and COMS calibration checks, zero and span adjustments, preventive maintenance and periods of unavoidable malfunction.
	21) In accordance with Approval MBR-00-COM-047, Proviso No. (19), use and maintain its CEMS and COMS servicing EU3 as “direct-compliance” monitors to measure NOx, CO, O2 and Opacity. “Direct-compliance” monitors generate data that legally documents the compliance status of a source.
	22) In accordance with Approval MBR-00-COM-047, Proviso No. (21), operate continuous monitor and alarm system to monitor the temperature at the inlet to the SCR catalyst.
	23) In accordance with Approval MBR-00-COM-047, Proviso No. (20), a quality assurance/quality control (QA/QC) Plan must be developed for the long-term operation of the CEMS and COMS which conforms to 40 CFR Part 60, Appendix F, and all applicable portions of 40 CFR Part 72 and 75. Any subsequent changes to the program shall be approved by MassDEP.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU3	24) In accordance with Approval MBR-00-COM-047, Proviso No. (4)(d), tune the boiler according to procedures contained in EPA340/1-83-023 "Combustion Efficiency Optimization Manual for Operators of Oil and Gas Fired Boilers", or an equivalent method in order to optimize NO_x and CO emissions.
	25) In accordance with 310 CMR 7.13 and Approval MBR-00-COM-047, conduct emissions compliance testing for NOx, CO, particulate matter and NH_3 to demonstrate compliance with the emission limitations stated herein. All emission testing shall be completed within 90 days of the commencement of continuous operation of the boiler and annually thereafter. All such testing shall be conducted in accordance with the applicable procedures specified in 40 CFR 60 Appendix A or other method if approved by MassDEP and EPA.
	26) In accordance with 40 CFR 60.44b, 40 CFR 60.46b, and 40 CFR 60.48b comply with all applicable sections.
	27) In accordance with 310 CMR 7.00: Appendix C(9)(b)2., demonstrate compliance with the fuel sulfur content requirement as referenced in Table 3 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.
	28) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., opacity shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.
EU2, EU3	29) In accordance with Approval MBR-00-COM-047, Proviso No. 4.(a), calibrate, maintain, and operate a fuel metering device and recorder for each fuel of use so that fuel usage can be recorded.
	30) In accordance with 310 CMR 7.04(2)(a), no person shall cause, suffer, allow, or permit the burning of any grade oil or solid fuel in any fuel utilization facility having an energy input capacity rated by MassDEP equal to or greater than 40 MMBtu per hour, unless such facility is equipped with a smoke density sensing instrument and recorder which are properly maintained in an accurate operating condition, operates continuously and is equipped with an audible alarm to signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., the Opacity COMS shall meet Performance Specification 1 of 40 CFR Part 60, Appendix B.
	31) In accordance with Approval MBR-00-COM-047, Proviso No. (4)(e), monitor for EU2 and EU3: which boiler(s) are operative at any given time, fuel usage logs which reflect actual fuel usage on a weekly basis, monthly totals and emissions resulting from each type of fuel burned, the actual sulfur content of fuel oil used, and the total fuel usage and emissions resulting from each type of fuel burned for the previous twelve months.
	32) Compliance with Massachusetts Acid Rain Law 310 CMR 7.22 shall be demonstrated through monitoring for and compliance with 310 CMR 7.05(1).
EU4	33) In accordance with Approval MBR-95-IND-020, Special Condition No. 2., monitor on monthly basis inventory of all plastic resins used and amount of VOC emitted.
EU5	34) In accordance with Approval MBR-99-IND-026, Proviso No. C.(3), monitor actual amount of all VOC containing materials used during the month, the VOC content of each material, and the actual emissions of VOC for the month as well as the prior 11 months.
EU6, EU7	35) In accordance with 310 CMR 7.03(10), monitor the hours of operation of each unit. Each unit may be operated no more than 300 hours per any rolling 12 month period, including the normal maintenance and testing procedure as recommended by the manufacturer and periods when the primary power source for a facility has been lost during an emergency, such as a power outage, an on-site disaster or an act of God.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU6, EU7	36) In accordance with 310 CMR 7.00: Appendix C(9)(b)2., obtain and maintain a shipping receipt from the fuel supplier for each shipment of ULSD delivered. The shipping receipt must certify that the shipment complies with the ASTM specifications for ULSD. MassDEP may require testing of the ULSD if the shipping receipt does not clearly demonstrate compliance.
EU6,EU7, EUEG1, EUFP1	37) In accordance with 40 CFR 63.6625(e) and (f), comply with all applicable monitoring/testing requirements.
EU8	38) In accordance with 310 CMR 7.18(8)(h), upon request of MassDEP or EPA, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(8).
EU10	39) In accordance with 310 CMR 7.26(42)(d)1., a non-turn back hour counter shall be installed, operated and maintained in good working order.
	40) In accordance with 310 CMR 7.26(42)(d)2. And 40 CFR Part 60, Subpart IIII, monitor relevant parameters in order to demonstrate the unit is operated and maintained according to the manufacturer's recommended operating and maintenance procedures.
	41) In accordance with 310 CMR 7.26(42)(e), MADEP may require emission or other monitoring or testing to assure compliance with the requirements of 310 CMR 7.26(42).
Facility-Wide	42) In accordance with 310 CMR 7.13(1), any person owning, leasing, operating or controlling a facility for which MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisos shall cause such stack testing: (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 MassDEP, (c) to be conducted in the presence of a representative of MassDEP when such is deemed necessary, and (d)to be summarized and submitted to MassDEP with analysis and report within such time as agreed to in the approved test protocol. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., conduct any other testing or testing methodology if and when requested by MassDEP or EPA.
	43) Continue to monitor the feasibility of implementing alternative technologies or reformulated raw material inputs which will lead to the decrease of overall emissions from the subject facility to the environment (air emissions, solvent waste, etc.) The Permittee shall seek assistance from outside sources such as suppliers, vendors, or the Office of Technical Assistance (which is located at the Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts, Telephone No. 617-727-3260) as referenced in Approval MBR-99-IND-026, Proviso No. D.(4).
	44) Monitor all actions associated with environmental issues and overall emissions changes at the facility. The facility shall monitor information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment (air, solvent waste, etc.) as referenced in Approval MBR-99-IND-026, Proviso No. D.(5).
	45) In accordance with 310 CMR 7.04(4)(a), inspect and maintain each fuel utilization facility, having energy input capacity $\geq$ 3MMBtu/hr in accordance with manufacturer's recommendations and test for efficient operation at least once in each calendar year.
	46) Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2.,monitor operations such that the records of the facility-wide VOC/HAP emissions can be maintained.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
Facility-Wide	47) Opacity shall be determined in accordance with EPA Test Method 9, as specified in 40 CFR 60, Appendix A, if and when requested by MassDEP or EPA.
	48) Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2., monitor facility operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement as required by 310 CMR 7.12. Keep copies of all information supplied to MassDEP pursuant to 310 CMR 7.12 on site for five (5) years after the date the report is submitted.
	49) In accordance with 310 CMR 7.71(1) and Appendix C(9) 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)

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU1,EU9	50) In accordance with Approval MBR-09-COM-005, Table 4, No. 12, comply with all applicable record keeping requirements of the federal regulation 40 CFR 60, Subpart KKKK, such as written advance notification of start-up, post-notification of actual start-up and calendar quarter excess emissions reports. The Permittee shall establish and maintain a record keeping system at the Permittee's Facility. Relevant records shall be maintained such that the year-to-date information is readily available for review by MassDEP personnel. Record keeping shall, at a minimum, include: - fuel consumption of all MassDEP regulated fuel-burning units at the Permittee's Facility; - hours of operation of all MassDEP regulated fuel-burning units at the Permittee's Facility; - daily, monthly, and 12-month rolling cumulative emissions of NOx and CO; and - all other data necessary to demonstrate compliance with the emissions limits contained in Table 2 above. These records shall be maintained at the Permittee's Facility for five (5) years following the date of the records, and shall be made available to MassDEP personnel upon request.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU1,EU9	51) In accordance with Approval MBR-09-COM-005, Table 4, No. 13, maintain adequate monthly records to demonstrate that the NOx, CO, VOC, SO2, and $PM/PM_{10}/PM_{2.5}$ emissions from the subject equipment do not exceed the emission limitations specified in the Conditional Approval. At a minimum, the information shall include the amount of fuel used during the month for the subject equipment, and the actual emissions (i.e. actual fuel times emission rate) of NOx, CO, VOC, $PM/PM_{10}/PM_{2.5}$ and SO_2 for the month as well as the prior 11 months, as well as adequate records to document facility-wide emissions, and CEMS data documenting excess emissions (See attached On-Site Record Keeping Form for the format that is acceptable to MasDEP. An electronic version of this form in Microsoft Excel format can be obtained at http://www.state.ma.us/dep/nero/bwp/nerobwp.htm).
	52) In accordance with Approval MBR-09-COM-005, Table 4, No. 14, each unit shall record with a fuel meter, for each fuel of use, the amount of fuel combusted.
EU1,EU9,PCD-1,PCD-2	53) In accordance with Approval MBR-09-COM-005, Table 4, No. 15, maintain all records generated by its Data Acquisition and Handling System(s) (DAHS) for the CEMS serving EU1 and EU9, including associated air pollution control system operating parameters and the following emissions from the subject project and COMS records for opacity: a) Oxygen (O_2) b) Oxides of Nitrogen (NO_x) c) Carbon Monoxide (CO) d) Ammonia (NH_3)
	54) In accordance with Approval MBR-09-COM-005, Table 4, No. 16, all periods of excess emissions from the subject equipment, even if attributable to an emergency/malfunction or start up/shutdown, shall be quantified and included by the Permittee in the determination of rolling 12-month period emissions and compliance with the rolling 12-month period emission limitations as stated in Table No. 2 of the Conditional Approval. (**"Excess Emissions"** are defined as emissions, which are in excess of the short-term emission limitations as stipulated in Table 2.).
	55) In accordance with Approval MBR-09-COM-005, Table 4, No. 17, keep operating and maintenance logbooks, or similar record keeping systems, for EU1 and EU9 on-site. These logbooks, or similar, shall contain the following information: a. Hours of operation including start-ups and shutdowns; and b. Monthly records of maintenance activities for the subject combustion turbine, HRSG unit, and associated air pollution control system. These records shall be maintained on-site for a minimum of five years and shall be made available to MassDEP personnel upon request.
EU2	56) Maintain the test results of annual Emissions Compliance Testing (Stack Testing) performed in accordance with Approval MBR-94-COM-024, 310 CMR 7.13, 310 CMR 7.19(13)(c), and 40 CFR Part 60, Appendix A for NO_x, CO and NO_x/CO minimization program.
	57) In accordance with 310 CMR 7.19(13)(d)3., and Approval MBR-94-COM-024, Proviso No. III.a., record for each unit, when in operation, on a daily basis: type of fuel(s) burned each day, heat content of each fuel, and total heating value of fuel consumed for each day, the actual percent oxygen in the flue gases, and the allowable NOx emission rate.
	58) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain fuel analysis results used to demonstrate compliance with fuel sulfur content requirements.
	59) Consistent with the requirements of 310 CMR 7.04(2)(a), record opacity determined in accordance 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU2	60) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., record unit parameters, as necessary, to ensure continuous compliance with PM emission limits.
	61) In accordance with 310 CMR 7.19(13)(d)8., and Approval MBR-94-COM-024, Proviso No. III.c., all records required by 310 CMR 7.19(13)(d), shall be kept for a period of five years in a permanently bound log book or any other form acceptable to the Department including computer retained and generated data.
	62) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain on-site, at all times, a copy of the Standard Operating and Maintenance Procedure (SOMP) for the subject emission unit.
EU3	63) In accordance with Approval MBR-00-COM-047, Proviso No. (4)(g), maintain adequate records on site which document: the date and time of the fuel switch, the duration of the fuel switch, the amount of ULSD fuel oil consumed during each fuel switch, and the date and time for return to natural gas firing.
	64) In accordance with Approval MBR-00-COM-047, Proviso No. 17, obtain and record emission data from each CEMS and COMS serving EU3 for at least 75% of the emission unit's operating hours per day, for at least 75% of the emission unit's operating hours per month, and for at least 95% of the emission unit's operating hours per quarter, except for periods of CEMS and COMS calibration checks, zero and span adjustments, and preventive maintenance.
	65) In accordance with Approval MBR-00-COM-047, Proviso No. 18, all periods of excess emissions from EU3, even if attributable to an emergency/malfunction or start up/shutdown shall be quantified and included in the determination of annual emissions and compliance with annual emission limits **("Excess Emissions"** are defined as emissions, which are in excess of the short term emissions as stipulated in Table II in Approval MBR-00-COM-047). An exceedance of emission limits in Table II in Approval MBR-00-COM-047 due to an emergency or malfunction shall not be deemed s federally permitted release as that term is used in 42 U.S.C. Section 9601(10).
	66) In accordance with Approval MBR-00-COM-047, Proviso No. 29, maintain an Environmental Logbook, or equivalent, which shall document actions associated with environmental issues and overall emissions changes. The Permittee shall record information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment (air, odors, solid waste, etc.). This Logbook, or equivalent, shall be made available to MassDEP personnel upon request.
	67)Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain on-site permanent records of output from all DAHS and CEMS and PEMS (for particulate matter only) for flue gas emissions, SCR control system inlet temperature, and shall make these records available to the Department upon request.
	68) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain a log to record problems/ upsets or failures associated with the emission control system, CEMS and PEMS (for particulate matter only), or ammonia handling system.
	69) In accordance with Approval MBR-00-COM-047, Proviso (4)(f), maintain adequate records on site which document the number of gallons of ULSD fuel oil used on a rolling 12-month period.
	70) Maintain the test results of annual Emissions Compliance Testing (Stack Testing) performed in accordance with Approval MBR-00-COM-047, 310 CMR 7.13, and 40 CFR Part 60, Appendix A for NO_x, CO, PM, and NH_3.
	71) In accordance with 40 CFR 60.49b, comply with all applicable sections.
	72) 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 Approval MBR-00-COM-047.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU3	73) Consistent with the requirements of 310 CMR 7.04(2)(a), record opacity determined in accordance 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.
EU2, EU3	74) In accordance with Approval MBR-00-COM-047, Proviso No. (4)(e) maintain records for each boiler that include: which boiler(s) are operating at any given time, fuel purchase receipts and fuel usage logs which reflect actual fuel usage on a weekly basis, monthly totals of fuel usage and emissions resulting from each type of fuel burned, the actual sulfur content of fuel oil used, and the total fuel usage and emissions resulting from each type of fuel burned for the previous twelve months.
	75) In accordance with 310 CMR 7.04(2)(a), maintain records of Smoke Density Indicator Recording Charts. The keeping of COMS records shall constitute compliance with this requirement.
	76) Compliance with the Massachusetts Acid Rain Law 310 CMR 7.22 shall be demonstrated through record keeping for and compliance with fuel sulfur requirements.
EU4	77) In accordance with Approval MBR-95-IND-020, Special Condition No. 2., maintain a list of current plastic molding equipment, raw materials, raw material emission factors, and the actual emissions of VOC for the month as well as prior 11 months, in order to demonstrate compliance with the emission limits in Table 3 of this Permit.
EU5	78) In accordance with Approval MBR-99-IND-026, Proviso No. C.(3) maintain records of actual amount of all VOC containing materials used during the month, the VOC content of each material, and the actual emissions of VOC for the month as well as the prior 11 months, in order to demonstrate compliance with the limits in Table 3 of this Permit.
EU6, EU7	79) In accordance with 310 CMR 7.03(6), a record-keeping system shall be established and continued in sufficient detail to document the date of construction, substantial reconstruction or alteration and that the respective emission rates, operational limitations, equipment specifications and other requirements pursuant to 310 CMR 7.03 are met. All records shall be maintained up-to-date such that year-to-date information is readily available for Department examination.
	80) 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)3.
EU6,EU7, EUEG1, EUFP1	81) In accordance with 40 CFR 63.6625(f), comply with all applicable recordkeeping requirements.
EU8	82) In accordance with 310 CMR 7.03(6) and 7.18(8)(g), prepare and maintain daily records sufficient to demonstrate compliance with the solvent use rates.
EU10	83) In accordance with 310 CMR 7.26(42) and 40 CFR Part 60, Subpart IIII, keep records documenting compliance with fuel sulfur limit identified in Table 3.
	84) In accordance with 310 CMR 7.26(42) and 40 CFR Part 60, Subpart IIII, keep records documenting the unit is operated and maintained according to the manufacturer’s recommended operating and maintenance procedures.
	85) In accordance with 310 CMR 7.26(42)(f), maintain and make available to MassDEP or its designee the following records: 1. Information on equipment type, make and model, and rated power output; and 2. A monthly log of hours of operation, fuel type, heating value and sulfur content for fuel oil. A monthly calculation of the total hours operated in the previous 12 months; and 3. Purchase orders, invoices, and other documents to substantiate information in the monthly log; and 4. Copies of certificates and documents from the manufacturer related to certificates.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
Facility-Wide	86) In accordance with 310 CMR 7.71 (6) b. and c. retain at the facility for five years and make available to MassDEP upon request copies of the documentation of the methodology and data used to quantify emissions. (state only)
	87) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(d)., maintain the test results of any other testing or testing methodology required by the Department or EPA.
	88) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain a record of facility-wide VOC emissions on a monthly and 12 month rolling period, also maintain record of facility-wide HAP emissions so that compliance with the emission limits in Table 3 of this Permit can be documented.
	89) The Permittee's personnel shall record any information supplied to them relative to reducing overall emissions and pollution prevention techniques. This information as well as any progress towards decreasing overall emissions to the environment shall be recorded in an Environmental Logbook or equivalent record keeping system, which shall document all actions associated with environmental issues and overall emissions changes at the facility. The facility shall record information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment (air, solvent waste, etc.). This Logbook, or equivalent record keeping system, shall be made available to Department personnel upon request as referenced in Approval MBR-99-IND-026, Proviso Nos. D.4 and D.5.
	90) The results of the required inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near each fuel utilization facility, having an energy input capacity of $\geq$ 3 MMBtu/hr, as provided in 310 CMR 7.04(4)(a). Said records shall be maintained on site for a period of the five (5) most recent years.
	91) Maintain records for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.
	92) Keep copies of Source Registration/Emission Statement Forms submitted annually to the Department as required per 310 CMR 7.12(3)(b).
	93) In accordance with 310 CMR 7.00: Appendix C(10)(b), maintain records of all monitoring data and supporting information required by this Operating Permit on site for 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 this Operating Permit, and any other information required to interpret the monitoring data. Records required to be maintained shall include, where applicable: (a) The date, place as defined in the Permit, and time of sampling or measurements; (b) The date(s) analyses were performed; (c) The company or entity that performed the analyses; (d) The analytical techniques or methods used; (e) The results of such analyses; and (f) The operating conditions as existing at the time of sampling or measurement.

Table 6	
EU#	REPORTING REQUIREMENTS
EU1,EU9	94) As referenced in Approval MBR-09-COM-005, Table 5, No. 23, comply with all applicable reporting requirements of the federal regulation 40 CFR 60, Subpart KKKK, such as written advance notification of start-up, post-notification of actual start-up and calendar quarter excess emissions reports.
EU1,EU9, PCD-1, PCD-2	95) As referenced in Approval MBR-09-COM-005, Table 5, No. 27, submit any subsequent revision(s) made to the Final SOMP concerning the subject equipment, to this Office, attention Permit Chief, Bureau of Waste Prevention, within 15 days of said revision(s).
	96) As referenced in Approval MBR-09-COM-005, Table 5, No. 28, the Northeast Regional Bureau of Waste Prevention office, attention Compliance and Enforcement Chief, must be notified by FAX at (978) 694-3499, within but no later than one business day, and subsequently in writing within seven days, after the occurrence of any upsets or malfunctions to the subject equipment, which result in an excess emission to the air and/or a condition of air pollution. The written communication shall describe the duration of and reason for the exceedance, and the remedial action taken or proposed to prevent future exceedances.
EU2	97) In accordance with 310 CMR 7.19(13)(c), on an annual basis: (a) submit a pretest protocol for the required Emissions Compliance Test (stack test) for review and written Department approval at least 60 days prior to the anticipated date of testing, (b) include in the pretest protocol a description of sampling point locations, sampling equipment, sampling and analytical procedures, and the operating conditions for the required Emissions Compliance Testing, and (c) submit the Emissions Compliance Testing report for the review and written MassDEP approval within 60 days of the completion of the Emissions Compliance Testing.
	98) In accordance with 310 CMR 7.19(13)(d)9., submit compliance records within ten (10) days of written request by MassDEP or EPA.
	99) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(d) and in accordance with 310 CMR 7.00: Appendix C(10)(d), updated versions of the Standard Operating and Maintenance Procedures (SOMP) shall be submitted to MassDEP. MassDEP must approve of significant changes to the SOMP prior to the change becoming effective. The updated SOMP shall supersede prior versions of the SOMP.
EU3	100) In accordance with Approval MBR-00-COM-047, Proviso No. (3), submit to this office, attention Permit Chief for the Bureau of Waste Prevention, by January 31 for the time period July-December of the previous calendar year and July 31 for the time period January-June of the current calendar year, a semi-annual compendium of the latest emissions.
	101) In accordance with Approval MBR-00-COM-047, Proviso No. 20, the QA/QC Plan must be submitted in writing, reviewed and approved in writing by MassDEP at least 30 days prior to commencement of facility operation.
	102) In accordance with 40 CFR 60.49b, comply with all applicable sections.
	103) Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(d) and in accordance with 310 CMR 7.00: Appendix C(10)(d), updated versions of the Standard Operating and Maintenance Procedures (SOMP) shall be submitted to MassDEP. MassDEP must approve of significant changes to the SOMP prior to the change becoming effective. The updated SOMP shall supersede prior versions of the SOMP.

Table 6	
EU#	REPORTING REQUIREMENTS
Facility-Wide	104) In accordance with 310 CMR 7.71(5), by April 15th, 2010 and April 15th of each year thereafter report emissions of greenhouse gases from stationary emissions sources including, but not limited to, emissions from factory stacks, manufacturing processes and vents, fugitive emissions, and other process emissions; and owned or leased motor vehicles when stationary source greenhouse gas emissions are greater than 5,000 short tons CO2e. Report greenhouse gas emissions electronically in a format that can be accommodated by the registry. (state only)
	105) In accordance with 310 CMR 7.71(6), certify greenhouse gas emissions reports using a form provided by MassDEP or the registry. (state only)
	106) In accordance with 310 CMR 7.71(7), by December 31st of the applicable year submit to the Department documentation of triennial verification of the greenhouse gas emissions report. (state only)
	107) Upon MassDEP's request, any record relative to the Operating Permit or to the emissions of any air contaminant from the facility shall be submitted to MassDEP within 30 days of the request by MassDEP or within a longer time period if approved in writing by MassDEP, and shall be transmitted on paper, on computer disk, or electronically at the discretion of MassDEP, pursuant to 310 CMR 7.00: Appendix C(10)(a).
	108) In accordance with 310 CMR 7.00: Appendix C()(d), submit, upon request, the test results of any other testing or testing methodology required by MassDEP or EPA.
	109) By April 15 of each year, submit Source Registration/Emission Statement to MassDEP as required in 310 CMR 7.12. The Permittee shall accurately report to MassDEP in accordance with CMR 7.12, all information as required by the Source Registration/Emission Statement Form.
	110) By March 15 of each year, submit an annual report to this Office, attention Bureau of Waste Prevention Permit Chief, summarizing the progress towards decreasing overall emissions to the environment. This report shall discuss alternative technologies or reformulated materials, which have been or will be implemented at the subject facility as referenced in Approval MBR-99-IND-026, Proviso No. D.(6).
	111) Submit by January 30 and July 30 for the previous six months respectively, a summary of all monitoring data and related supporting information to the Department as required by 310 CMR 7.00: Appendix C(10)(c). Reports shall be submitted using the "Semi-Annual Monitoring Summary Report and Certification" form available on MassDEP's website. Reports submitted in accordance with this requirement shall also fully satisfy the semi-annual reporting requirement identified in General Condition 10.b of this Operating Permit.
	112) Promptly report to MassDEP all instances of deviations from permit requirements by telephone or fax, within three days of discovery of such deviation, as provided in 310 CMR 7.00: Appendix C(10)(f). (Please also See General Condition No. 25).
	113) In accordance with 310 CMR 7.00: Appendix C(10)(h) all required reports must be certified by a responsible official consistent with 310 CMR 7.00: Appendix C(5)(c).

Table 6	
EU#	REPORTING REQUIREMENTS
Facility-Wide	114) As provided in 310 CMR 7.16(5), the Permittee shall annually update the base date rideshare report by means of a report containing: (a) Updated information called for in 310 CMR 7.16(2) through 7.16(4). (b) The net change in percentage points between the percentage reported under 310 CMR 7.16(4)(e) as of the base date and that under 310 CMR 7.16(4)(d) as of the date of the current report.(c) The net change in percentage points between the percentage reported under 310 CMR 7.16(4)(d) as of the last reporting period and the date of the current report.(d) A detailed description of all measures which have been taken to reduce the number of single-occupant commuter vehicles to the facility and the commuter response to such measures. The first such annual updated report shall be due on November 15, 1979, and successively each 12 months.
	115) As provided in 310 CMR 7.16(6)(a), each employer submitting reports required by 310 CMR 7.16(5) shall cause such reports to be signed as follows: In the case of a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility covered by the reports. Each report submitted pursuant to 310 CMR 7.16(5) shall be accompanied by an adequate explanation of the methodology used to gather, complete and analyze the data, the assumptions used in that analysis, and samples of the forms used to elicit the underlying information from commuters at the facility.

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
40 CFR Part 64	Compliance Assurance Monitoring
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases
310 CMR 7.70	CO2 Budget Trading Program

5. SPECIAL TERMS AND CONDITIONS

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

A. EMISSION UNIT 1:

1. The Permittee shall comply with all requirements of Regulation 310 CMR 7.26(43) for EU1.

2. In accordance with Approval MBR-09-COM-005, Special Condition No. 9, natural gas shall be the primary fuel of use in EU1 and ULSD shall be its back-up fuel of use. EU1 shall run on ULSD for no more than 1440 hours per 12-month calendar period. ULSD shall not be fired during the ozone season (May 1 through September 30), unless the natural gas supplier physically curtails the natural gas service, or the gas compression system installed at the facility is inoperable during this May through September period.

B. EMISSION UNITS 1 AND 9:

1. EU1 must comply with all applicable sections of 40 CFR Part 60 - New Source Performance Standards - Subpart KKKK (Gas Turbines).

2. In accordance with Approval MBR-09-COM-005, the Permittee shall perform, at a minimum, the following measures or equivalent alternative measures for noise mitigation (State only requirement):

   a) EU1 shall be installed in sound-attenuated enclosure.

   b) All of the cogeneration equipment shall be installed in an acoustically-designed building with appropriate treatment for building ventilation systems and access openings.

   c) Silencers shall be installed on the combustion turbine air intake, gas exhaust, turbine enclosure ventilation systems, and non-emergency steam vents.

   d) A reduced-noise lube oil cooler model or equivalent noise mitigation method shall be utilized.

   e) The fuel gas compressor and drive motor and associated fuel gas equipment shall be installed in a sound-attenuated enclosure.

2. MassDEP Noise Policy 90-001 limits increases over the existing L_{90} background level to 10 dBA. Additionally, "pure tone" sounds, defined as any octave band level that exceeds the levels in adjacent octave bands by 3 dBA or more, are also prohibited. The Permittee, at a minimum, shall ensure that the proposed EU1/EU9 complies with said Policy (State only requirement).

3. In accordance with Approval MBR-09-COM-005, Section B, Condition No. 4, the allowable noise levels generated from the operation of EU1/EU9 by the Permittee are summarized in Table A of this Conditional Approval Further, based on the noise frequency distribution, no combination of noise sources shall result in a "pure tone condition (State only requirement)."

TABLE A			
Location	**Nighttime Ambient (L_{90}, dBA)[1]**	**Total Future Maximum Predicted Plant Generated Noise (Nighttime Levels) (L_{90},dBA)**	**Predicted Increase over Nighttime Baseline (L_{90},dBA)**
PL-1	54	56	2
PL-2	54	56	2
PL-3	53	54	1
PL-4	51	52	1
PL-5	49	50	1
PL-6	50	52	2
PL-7	54	54	0
PL-8	57	58	1

Table A Notes:

The lowest background sound levels (one hour) observed where the noise level is exceeded 90 percent of the time (L_{90}), which is the level regulated by the MassDEP Noise Policy.

4. In accordance with Approval MBR-09-COM-005, EU1 and EU9 shall emit products of combustion through a common stack having the following parameters:

Stack Height	160 feet
Stack Exit diameter	76 inches
Stack Material	Steel

C. EMISSION UNIT 1, EMISSION UNIT 9, PCD-1, PCD-2:

1. In accordance with Approval MBR-09-COM-005, Special Condition No. 11, the Permittee shall operate the subject equipment consistent with the Final SOMP and the conditions/parameters established during the compliance test program.

2. In accordance with Approval MBR-09-COM-005, General Condition No. 3, the Permittee shall allow MassDEP personnel access to the subject facility site, buildings, and all pertinent records during business hours for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.

D. EMISSION UNIT 2 AND EMISSION UNIT 3:

1. Per data as supplied through the Permittee's Operating Permit Application (MBR-95-OPP-076, Transmittal No. 118030), EU2, and EU3 shall continue to emit products of combustion through the main stack having the following parameters:

Stack Height	160 feet
Stack Exit Diameter	76 inches
Stack Material	Aluminum Clad Steel

E. EMISSION UNIT 3:

1. In accordance with Approval MBR-00-COM-047, Proviso No. (4)(c), the Permittee shall ensure that EU3 shall comply with the emission limitations in pounds per million Btu heat input, for each fuel of use, contained in Table II in Section D. Documentation from the equipment manufacturer shall be maintained on site that Boiler No. 3 and its appurtenances as designed and installed shall comply with the emission limitations contained in Table II in Section D when operated in accordance with manufacturer's instructions.

2. In accordance with Approval MBR-00-COM-047, Proviso No. (10), the Permittee shall keep properly maintained, operable, portable ammonia detectors for use during an ammonia spill, or other emergency situations involving ammonia, at or nearby the powerhouse control room.

3. In accordance with Approval MBR-00-COM-047, Proviso No. (11), the Permittee shall ensure that the subject ammonia storage system is equipped with high and low level audible alarm monitors.

4. In accordance with Approval MBR-00-COM-047, Proviso No. (12), the Permittee shall maintain an adequate supply of spare parts on-site to maintain the CEMS equipment.

5. In accordance with Approval MBR-00-COM-047, Proviso No. (22), the Permittee's personnel shall allow MassDEP to witness tuning of EU3 if and when requested by MassDEP.

6. In accordance with Approval MBR-00-COM-047, Proviso No. (23), the Permittee shall comply with the requirements of 40 CFR Part 60, Subpart Db.

7. In accordance with Approval MBR-00-COM-047, Proviso No. (25), the Permittee personnel shall post a copy of Approval MBR-00-COM-047 letter adjacent to EU3.

8. In accordance with Approval MBR-00-COM-047, Proviso No. (26), the Permittee's personnel shall post a copy of the Standard Operating and Maintenance Procedures for EU3 at or nearby the subject equipment.

9. In accordance with Approval MBR-00-COM-047, Proviso No. (30), the Permittee's personnel shall allow MassDEP personnel access to the plant site, buildings, and all pertinent records at all reasonable times for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.

F. EMISSION UNIT 5:

1. A copy of the Final Approval letter MBR-99-IND-026 shall be posted at or near EU5 as referenced in Approval MBR-99-IND-026, proviso No. C.4.

2. VOC emissions from each of the two Low Energy Sintering lines shall continue to emit through its separate steel stack, each of which has the following parameters:

Stack Height	38 feet above ground
Stack Exit Diameter	8 inches
Stack Material	Steel

3. The Permittee shall be permitted to utilize any materials with resultant comparable or lower VOC than those proposed in application MBR-99-IND-026(excluding research and development testing of coatings), as long as these emissions are included in, and do not result in an exceedance of any applicable VOC emission limit, as referenced in Approval MBR-99-IND-026, Proviso No. D.2.

G. EMISSION UNIT 6 AND EMISSION UNIT 7

1. In accordance with 310 CMR 7.03(10)(a),2., EU6 and EU7 shall each continue to be equipped and operated with an exhaust silencer so that sound emissions from the engines do not cause or contribute to a condition of air pollution. (State Only Applicable per 310 CMR 7.03(10) and 310 CMR 7.10: Noise)

2. In accordance with 310 CMR 7.03(10)(a), 3., EU6 and EU7 shall each utilize an exhaust stack that discharges so as to not cause or contribute to a condition of air pollution. (State Only Applicable)

EU6

Stack Height	20 feet above ground
Stack Exit Diameter	8 inches
Stack Material	Steel

EU7

Stack Height	22 feet above ground
Stack Exit Diameter	14 inches
Stack Material	Steel

H. EMISSION UNIT 6, EMISSION UNIT 7, EMISSION UNIT EG1 AND EMISSION UNIT FP1

1. In accordance with 40 CFR Part 63, Subpart ZZZZ, Table 2d. (Requirements for Existing Compression Ignition Stationary Reciprocating Internal Combustion Engine (RICE)) Located at Area Sources of HAP Emissions for emergency compression ignition (CI) Engines, No. 4.a., change oil and filter every 500 hours of operation or annually, whichever comes first.

2. In accordance with 40 CFR Part 63, Subpart ZZZZ, Table 2d., No. 4.b., Inspect air cleaner every 1000 hours of operation or annually whichever comes first, and replace as necessary.

3. In accordance with 40 CFR Part 63, Subpart ZZZZ, Table 2d., No. 4.c., Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

4. In accordance with 40 CFR Part 63, Subpart ZZZZ, Table 6 (Continuous Compliance with Emission Limitations and Operating Limitations), No. 9.a. (Work or management practices), operate and maintain each stationary RICE according to the manufacturers emission-related operation and maintenance instructions.

5. The Permittee is subject to the requirements of 40 CFR 63.1-10, 12-15, Subpart A, “General Provisions” [as indicated in Table “8” to Subpart ZZZZ of 40 CFR 63]. Compliance with all applicable provisions therein is required.

I. EMISSION UNIT 8:

1. In accordance with 310 CMR 7.18(8), the parts cleaner/degreaser must comply with all applicable requirements.

J. EMISSION UNIT 9:

1. In accordance with Approval MBR-09-COM-005, Special Condition No. 7, any stack exit rain protection device shall not impede the exhaust gas flow from the exhaust stack.

2. In accordance with Approval MBR-09-COM-005, Special Condition No. 9, natural gas shall be its only fuel of use.

K. EMISSION UNIT 9, PCD-1, PCD-2:

1. A copy of Approval letter MBR-09-COM-005 and the Standard Operating and Maintenance Procedure for the subject EU9, PCD-1 and PCD-2 equipment shall be affixed at or adjacent to the subject equipment.

L. PCD-1, PCD-2:

1. In accordance with Approval MBR-09-COM-005, Special Condition No. 3, PCD-1 and PCD-2 shall operate whenever EU1 and EU9 is operated, including start-up and shutdown, except that PCD-1 shall be placed in operation only after the exhaust gas temperature across the PCD-1 reaches approximately 550 degrees F.

M. FACILITY-WIDE:

1. Any net NO_x emissions increase occurring over a period of five consecutive calendar years which equates to 25 or more tons of NO_x (including the 7.90 tons of allowable NO_x emissions generated from EU1 and EU9) shall become subject to Nonattainment Review, as per the requirements of 310 CMR 7.00: Appendix A. Net increase in tons of NO_x emissions for the calendar years 2005-2009 inclusive at Gillette is 0.0 tons as of the issuance date of Approval MBR-09-COM-005.

2. The Permittee is subject to, and has stated in their Operating Permit Renewal Application (MBR-95-OPP-076R, Transmittal No. X225475, which they are in compliance with the requirements of 40 CFR Part 82: Protection of Stratospheric Ozone. These requirements are applicable to this facility and the United States Environmental Protection Agency (EPA) enforces these requirements.

3. The Permittee is subject to, and has stated in their Operating Permit Renewal Application (MBR-95-OPP-076, Transmittal No. 118030), that they are in compliance with the requirements of 310 CMR 7.16:Reduction of Single Occupant Commuter Vehicle Use. As such, this facility shall maintain the following mandatory measures, as referenced in 310 CMR 7.16:

(a) make available to commuters any pass program offered by the area transit authority, if any commuter to the facility uses the public transit facilities of such Authority as part of his daily commuting trip, including making all administrative arrangements for commuters to purchase the pass and thereby participate in the pass program and encouraging commuters to participate by such means as publicizing the availability of the pass program and the cost advantages thereof.

(b) post in a conspicuous place or places the schedules, rates and routes of every bus which serves the facility including the services offered by the area transit authority and any privately or publicly operated services which may exist in the immediate vicinity of the employer.

(c) provide incentives for bicycle commuting such as secure locking facilities and removal of restrictive rules against bicycle usage at the facility.

(d) negotiate with authorities in charge of bus lines serving the facility for improved service to the facility including providing information on the location and density of employee's residences and commuting times to be used for route planning by local transit authorities.

(e) conduct a carpooling program (either alone or in cooperation with neighboring facilities) which:

1. match on a regularly recurring basis (not less often than once every 12 months) the names, addresses, and suitable contact information of all commuters who commute in single-occupant commuter vehicles or carpool to a facility or group of neighboring facilities and who express interest in carpooling, so that such commuters with similar daily travel patterns are informed and aware of each other for the purpose of forming carpools;

2. continuously publicize the advantages of carpooling, both in terms of savings of fuel and money and any incentive in effect at the facility;

3. create incentives for carpool formation by providing persons who carpool with first call on available parking space or spaces which are closest to entrances to the facility; and,

4. provide information for carpooling program to prospective and new employees, and offer new employees the opportunity to participate in such program.

4. Should any nuisance condition be generated at the facility, then appropriate steps shall immediately be taken to abate said nuisance condition(s). (State only requirement - 310 CMR 7.01 General Regulations to Prevent Air Pollution)

5. Facility shall not permit any dust or odor operations to cause or contribute to a condition of air pollution. (State only requirement - 310 CMR 7.09 Dust, Odor, Construction, and Demolition).

6. The Permittee shall take necessary precautions to insure that the facility complies with MassDEP's noise regulation and policy and that the facility does not cause a condition of air pollution (State only requirement - 310 CMR 7.10 Noise and MassDEP Noise Policy 90-001).

6. ALTERNATIVE OPERATING SCENARIOS

The Permittee did not request alternative operating scenarios in its Operating Permit Application.

7. EMISSIONS TRADING

(a) Intra-facility emissions trading

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

(b) Inter-facility emissions 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 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 permit. The report shall be postmarked or delivered by January 30 to 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 Department 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:

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 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 Act, and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by 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) MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Part D.

(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 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 five (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 MassDEP's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by MassDEP on the renewal application.

In the event 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 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 MassDEP and/or EPA. The responsible official of the facility may request that MassDEP terminate the facility's operating permit for cause. 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 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 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 that 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 MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to 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 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 MassDEP and EPA to perform the following, as per 310 CMR 7.00: Appendix C(3)(g)12.:

(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.

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 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 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 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

[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.

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 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 Massachusetts Department of Environmental Protection 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 to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations that 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 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. 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.

Your 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.